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Engineering News-Record

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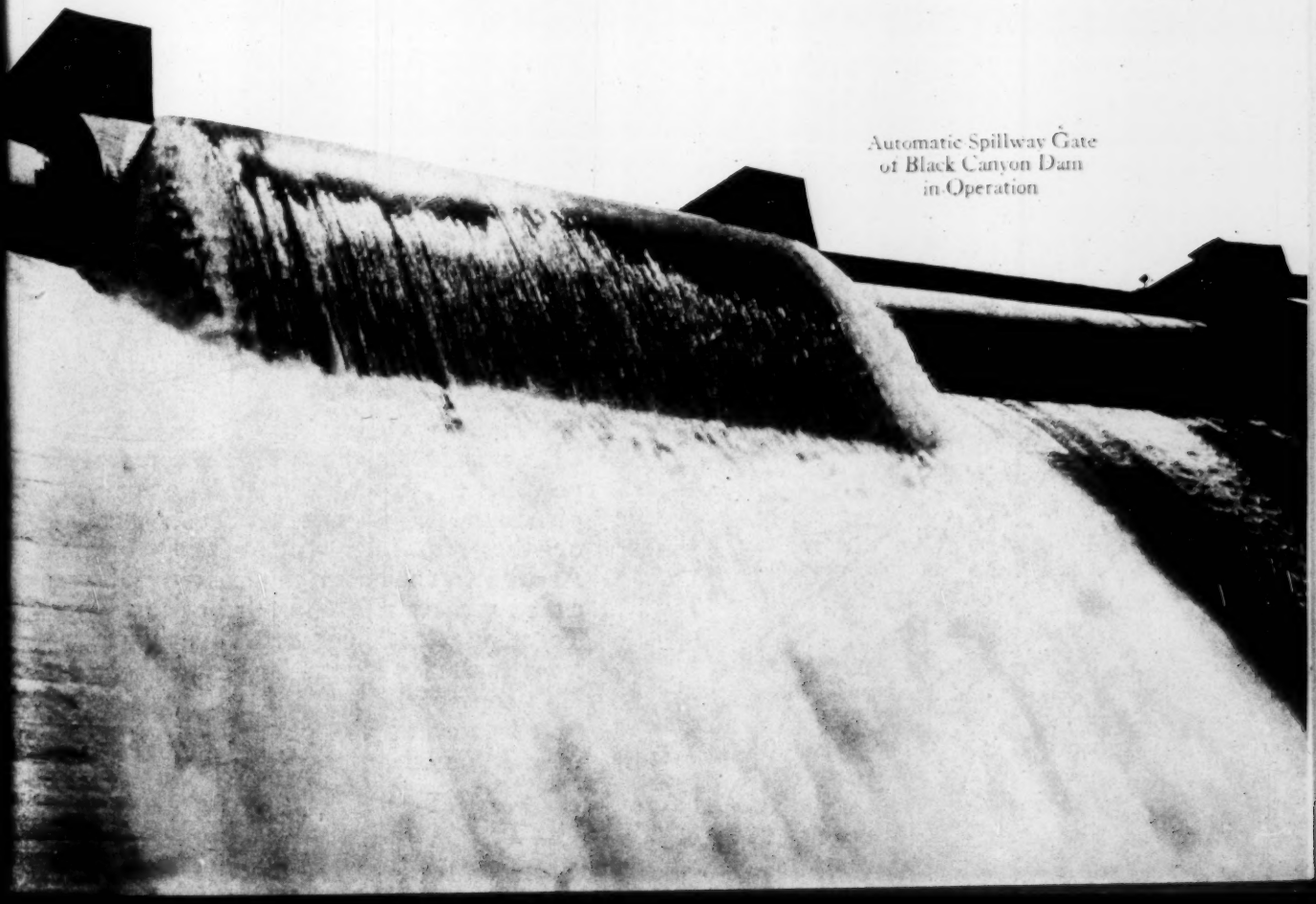
Automatic Spillway Gates of Black Canyon Dam

Tests of Bond Resistance on Reinforced-Concrete Beams

Design Considerations in Dix River Rock-Fill Dam

A Building for Industrial Research and Testing Work



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ENGINEERING NEWS-RECORD

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FRANK C. WIGHT
Editor

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Interstate Power Control

SECRETARY HOOVER'S argument against federal control of power, made to the N. E. L. A. at San Francisco last week, was timely and impressive. Political philosophy today is setting against further extension of federal authority; the states are coming back into their own. But the amazing extension of electrical service and the difficulties that arise when the political barrier of a state boundary interferes with the freedom of that extension have led many to believe the only solution of government control lies in Washington. Mr. Hoover, in his customary role of advocate of less government in business, points out the dangers of such a move, but he emphasizes, too, the excellent service that the states have done in controlling power utilities and commends to the states the possibilities of co-operation in the continuance of such control. Interstate arrangements for the control of overlapping power lines have already made some progress but they must be encouraged, not only by the people but also by the power companies, for in such co-operation lies the only relief from a future federal control.

Engineering Museum Going Forward

PROSPECTS for the early success of the movement for an engineering museum are measurably brightened by the enlistment of Samuel Insull. His well known capacity for large affairs and the confidence that he will inspire among prospective benefactors make the museum much more of a possibility than it has hitherto been. The meeting the other day, noted in our news columns, was well attended by some of the leaders in engineering and industry and by representatives of the major engineering societies. Their interest is now assured. With a stable organization and the backing of engineers it may well be hoped that the museums, both the main one at Washington and the local units at New York, Pittsburgh and Chicago, will in fair time be available as inspiration and education to the engineer.

Economy in Dam Design

A STATEMENT of the conditions and reasons back of the development of the design of the Dix dam is given in this issue. The just completed structure, it will be recalled, is the largest rock-fill dam ever built, and compares well in size with the largest dams of any type. It also is significant as representing the introduction into Eastern practice of this peculiarly Western type. Besides the great height, the steep slopes of the dam and the nature of its water-side protection are most noteworthy. It is to be remembered in considering these features that the dam was designed under great pressure for economy. The funds available for the enterprise were limited, and everything possible had to be done to attain lowest cost. Fortunate local conditions made it readily possible to obtain a spillway capacity so much beyond prospective needs that the safety of the dam against overtopping seems absolutely assured. Inasmuch as rock-fill dams have never failed by percolation or bodily washout, but only by the wash occurring in overflow, the safety and permanence of the dam may be taken for granted. It is somewhat more of a question whether the concrete watertight membrane placed on the freshly dumped fill will adapt itself to the settlement of the embankment without cracking. Where the supply of water is only enough for the expected demand, as here, the loss of water in case cracks of serious proportions should develop may easily prove critical so far as financial results are concerned. There is only a small amount of available experience to guide in designing such a membrane and judging of its performance, however, and much may be learned from the service results at the Dix dam for the benefit of future construction of similar works.

An Argument Gone

THE Chicago Sanitary District has for some time been contending that the Niagara Falls power interests did not have clean hands in complaining about Chicago's excess use of lake water. That line of attack is demolished by the report just issued by officials of the Canadian and the United States governments who report that the treaty limitations of use of Niagara water have not been exceeded on either side of the line. So this "you're another" kind of argument, never a very impressive one for an important city to take, is denied Chicago.

Seasonal Repairs

SEASONAL employment is as largely a problem of distributing building repairs as of spreading construction over twelve months instead of six months. Indeed, today in most large cities construction shows fewer seasonal peaks than do repairs and renovating. Owners of rentable property are notoriously in the habit of bunching their arrangements for new tenants into a month or two of the fall and spring renting seasons. So also do owners who close their city houses in summer and their country places in winter and postpone putting either in order until a few weeks before changing residence from one to the other. Indeed the whole practice of building repairs, painting, decorating, alterations and general renovation is highly seasonal due solely to habit and custom. The result is overtime work and prices, less efficient workmen and rushed jobs. The owner pays. Just how much more he pays is difficult to tell but it is enough to profit him highly by doing June repair work instead of September repair work. Building Congresses which are battling for a twelve-month distribution of repair work deserve the full support of engineers and contractors.

Arterial Road Costs

MODERN highway costs reach their peak in the construction of arterial highways through great metropolitan districts. An example is the arterial road west from the Holland tunnel as described in the issue of April 30. According to tentative estimates this 22-mile road will cost some $30,000,000. Its construction, however, involves several expensive tunnels, depressed roads and viaducts not normally a condition of arterial road development. A more normal example is the Great West Road just opened for London traffic to and from the west counties of England. It is 8½ miles long and cost £1,150,000 or virtually $720,000 a mile. There were no special structures comparable with the tunnels and viaducts of the Holland tunnel road. Instead the money went for straightforward road-building and land acquirement for a 115-ft. right of way with a 50-ft. asphalt on concrete pavement, two parkways and two foot walks. These two roads by no means include all the examples worthy of mention but they are works accomplished or in progress and they perhaps mark the range in costs—$750,000 to $1,500,000 a mile—which confront the arterial road builder. These are astounding figures to contemplate.

Two Cities Reject Manager Plan

GENERAL apathy on both sides played a great part in the recent defeat of the city manager plan at both Yonkers and Schenectady, N. Y. Half of the registered voters stayed away from the polls in each city; but the two-to-one negative vote was decisive enough in each case. Inertia, which is general apathy in another form, accounts for many of the adverse votes; or conservatism, if that term is preferred. Among the more positive forces in the two defeats may be counted the more or less professional politicians, who rarely like to see a change of this sort, and those to whom ward representation seems the only "American" way. The latter are slow to see that representation of areas is far less significant than that of policies or principles and that the latter can best be secured by proportional representation. Besides the election-at-large bogey, another one is said to have played a part; at least in Yonkers, where the old plea was advanced that the city manager plan may work in small places but not in one of a hundred thousand population or more. Some of these people have not heard or will not remember that Dayton has had a city manager for years; Cleveland for 18 months; and that Cincinnati recently voted for the manager plan. The effect of the Yonkers and Schenectady defeats on the movement for the adoption of the manager plan at Rochester, N. Y., will be looked for with interest. Latest accounts indicate that a proposal to provide for proportional representation at Rochester was finally negatived, which is perhaps a wise decision, especially as it can be voted on later and separately if desired.

Wanted: A Drive for Highway Safety

THE census of automobile fatalities in our cities for 1924 has just been issued by the government. It is far from hopeful. Accidents are increasing in nearly every city, not only in number but per capita. That they are decreasing in number per automobiles in use is not the important thing the automobile people try to make it out to be. The figures show that so far, at least, the campaign for highway safety has not begun to make itself felt, unless possibly it has served to retard what would otherwise have been an increasing acceleration of accidents. But it is hardly possible that the new movements for highway safety can fail soon to impress themselves. The campaign is fast growing. Especially should the impetus of the Hoover conference held at Washington last December begin soon to be felt. That conference was the first of what promises to be a series of meetings which will serve each year as the culmination of a great deal of concentrated work by experts. Already has next December's conference organized and the committees which are to report then are hard at work studying not so much how highway safety can be assured in an ideal community but how those principles which are known to conduce to safety can be successfully and practically applied. The conference seeks now to find things that will work and to find ways to make them work. And it is being backed up by consistent publicity and by regional and local meetings similar to the ones at Washington. The statistics just issued show that more work and more intensive work is needed. Every one should help.

Progress in Filtration

PERIODICALLY in the development of the art of any particular field a summing up of the progress is essential. Such a summary of a detail in the field of filtration of water is presented in the symposium elsewhere in this issue on the status of a particular type of underdrain. A wooden grating made of 1-in. boards laid on edge and separated by spacers of equal thickness is the type under discussion. Out of the difficulties from the blowing-up of the sand bed that this type presented at Sacramento came the use of a cemented-gravel layer used to hold the gravel in place. Cemented-gravel is European, Canadian and South American practice, not much used in the United States.

Some difference of opinion yet exists as to the merits, usefulness and necessary precautions essential to successful use of the slat-bottom underdrain. Its simplicity and low cost make it an alluring proposition for, as Wellington Donaldson says, it puts underdrain construction into the hands of carpenters. J. W. Armstrong, who proposed the type, has had one full-sized unit in successful operation for more than a year and has under construction additional filters using this design. J. W. Kelsey of St. Paul reported success with the system. A thick gravel layer 16 to 18 in., is one of the essentials apparently. Those who report failure have used thin layers. Opponents of the system adhere to the old theory on which the major number of underdrains are designed that an even distribution of wash water under the gravel layer must be obtained by material reduction of head through orifices of some kind, usually in metal. The deep gravel layer performs this service in the slat-bottom underdrain.

More light is needed on certain points but enough limitations are given to let future experimenters start without repeating the failures already made. Since Chicago is now seriously considering filtration, it is fitting that she should bear her share of the burden of experimental costs and establish a testing station for just such problems thus in turn adding her technical contribution to the long line of solutions of filter problems that other cities have made available for her use.

Get the Facts on Force Account

SOME weeks ago in Washington the Associated General Contractors launched a major drive against the doing of public work by force account, concentrating their attack upon the Corps of Engineers. Unfortunately, for an unprejudiced consideration of the case, the local press was used as the forum for a debate between the contractors and the Corps, and both sides, through the medium of interviews, resorted to the legal method of charging the opponent with a variety of crimes, not with any idea that they were all existent but in the hope of making some one of them stick. The resulting impression of the controversy was so confused that those who are honestly interested in getting some real light on the problem of public force account work would do better to disregard this current exhibition altogether.

Nevertheless, there is here a problem which engineers must consider. The ultimate end of all engineering is construction, the building or replacing of something of use or convenience. Approximately six billion dollars went into such construction in the United States last year, no inconsiderable part of the annual contribution to permanent wealth. Much of this is done for the people through their separate governments and a growing percentage of this government work is being carried out without the medium of contractors. How best to get that work completed at a minimum of cost is as much the duty of the engineer as it is his duty to guarantee the safety and sufficiency of the completed work.

If economy and security can be insured better by the government engineer acting as entrepreneur, undertaking not only design and inspection, but also the hiring of the labor, the purchasing of the material and the supervision of the construction itself, then it is time that the accepted contract system be discarded. But that system has the stamp of approval of time. It should not be discarded, or undermined insidiously by slow degrees, without full knowledge of how the proposed substitute is operating and toward what it ultimately tends. This calls for an examination of facts, which having been ascertained can be applied to test the validity of the argument that at present is for the most part a mere mental exercise.

In such mental exercise there is no denying the superior claims of the contract system. The arguments for it have been often recorded and need not be repeated here. They are so sound that even those who prosecute or advocate force account on special jobs are quick to protest their dislike for it as a general practice. But the special jobs fast multiply when construction organizations are built up and equipment is amassed and the exception soon becomes the rule. How economical do these operations really prove? Is the work actually cheaper, taking all things into consideration? Does it tend to reduce the number of contractors? Do engineering organizations doing construction become fossilized when safe from competition as to construction costs? These are some of the things that should be particularized.

The contractors are trying to get at those facts, but they are hampered on the one side by their inability to get from government bodies doing force account work a complete cost account and on the other by their own prejudice which unfortunately colors their comparative analyses and leads them into such fallacies as the comparison of the actual cost of the completed work with a preliminary estimate based on the engineer's design. Government bodies doing force account work for their part have done little toward justifying such activity, other than to present on specific operations figures that are most difficult of analysis and, in the case of some representatives of the Corps of Engineers, making ridiculous charges as to the motives of the contractors who are activating the drive against force account work. Calling names is not argument.

To get at the truth between those two is a difficult task. The investigator must disregard some of the common assumptions. He must hold to the criterion that the public has the right to have its construction work done at the lowest cost, but he must also remember that such lowest cost is not measured by the cost of a specific job but by the long time operation of a construction system. He must deny the inherent right of the contractor to existence but he must realize that experience has shown that bureaucratic or political control becomes inefficient and expensive. He must maintain that even communism cannot be successfully attacked merely by saying that it is communism but only by showing wherein communism is inefficient.

How can such an investigation be prosecuted? There is no hope of a complete investigation that will settle the question once and for all. This is not that kind of a problem. But it can be furthered by separate investigations by unbiased parties. Congress might do it for the federal departments, but Congressional investigations have not of late recommended themselves as trustworthy. Some of the investigatory branches of the executive, such as the Department of Commerce or the Federal Trade Commission, could do the job were it not for the so-called inter-departmental courtesy that forbids one bureau or department at Washington meddling in the affairs of another. Similar disabilities lie in any governmental investigation in state or city.

There are, too, our economic foundations and our technical societies. For them the opportunity is manifest and should be seized. By so doing they can render a great service to the construction industry and to the community. Doubtless the contractors have overemphasized the dangers in the increase of force account work. Taking it altogether it is still only a small proportion of the total construction work of the country. But it is increasing and the concern regarding the increase is warranted. The American Society of Civil Engineers, the National Industrial Conference Board or the Chamber of Commerce of the United States might any one of them well start an independent study of force account work and gather together some of the facts that are sadly lacking to those who would like to be able to judge fairly of its justification.

Meanwhile, since none of these agencies has seen fit to inaugurate such a study, this journal will undertake one of its own. During the coming summer a fact-finding campaign into the workings of specific force-account operations will be prosecuted by *Engineering News-Record*. No prejudices will govern this study and no preconceived notions will flavor its findings. It will be an honest effort to illuminate a dark land. We hope before winter comes to have contributed some basic data to this disputed subject.

Automatic Spillway Gates of Black Canyon Dam

Special Requirements Leading to Decision to Install Crest Gates of Drum Type Operated by Variations in Water Level—Details of Construction and Operating Results

By Julian Hinds
Assistant Designing Engineer, Bureau of Reclamation, Denver, Colo.

RECENTLY the U. S. Bureau of Reclamation completed and put into operation a power and diversion dam across the Payette River on the Boise irrigation project, Idaho, known as the Black Canyon dam (described in *Engineering News-Record*, Nov. 20, 1924, p. 818). Automatic spillway gates of drum type are installed on this dam, and these invite special consideration.

Reasons for Use—The purpose of the dam is to deliver water by pumping to the north side main canal of the Emmet Irrigation District, develop electric power, and (eventually) deliver water by gravity to the main canal of the Black Canyon division of the Boise reclamation project of the Bureau of Reclamation. The height to which the water above the dam may be raised is limited by the tracks of the Idaho Northern R.R., but, on the other hand, in order to meet the power and diversion requirements it is essential that the normal water surface in the river above the dam be held at the highest permissible level at all times. Flood waters must therefore be passed with practically no increase in water level. These conditions require some type of movable spillway crest.

Prompt and accurate adjustment of the crest to the varying flow of the river is essential. It is also necessary that the control shall not be subject to serious interruption by ice flows or by floating logs or trees. These considerations led to the selection of the drum type of crest gates, similar to the gates used for the spillway from the Arrowrock reservoir, on the same project, but with an automatic controlling device. While gates of this type are not uncommon, the Black Canyon installation is worthy of note because of the size of the gates, their curved upstream face, and the automatic control.

A good idea of the spillway may be had from the views Figs. 1 and 2 herewith. The three notches (Fig. 1) are each 64 ft. wide; the drum gates have a net lift of 14 ft. 6 in. They are placed on the line of the original river channel. The computed maximum spillway discharge with a water surface elevation of 2,497 ft. is approximately 40,000 sec.-ft. An appreciably larger flow can be passed for a short period without damage to the dam, although serious encroachment on the railroad grade is not permissible. A greater flood than 40,000 sec.-ft. is not expected.

General Gate Arrangement—The arrangement of the spillway section of the dam is shown in Fig. 3. Fig. 4 shows an enlarged section through the crest of the dam. The essential features of the drum gate and its fastenings are shown on Fig. 5. Each gate is a hollow prism, 64 ft. long, with one plane and two curved sides. The ends are closed and all joints are calked to make them watertight. Each gate operates in a drum chamber in the top of the dam, attachment being made by a cast-steel hinge at the upper upstream corner of the chamber.

The gate is raised and lowered by filling and emptying the drum chamber. Rubber seals along the downstream edge of the chamber and at the ends of the gate minimize leakage. Two sets of seals are required at the ends, one along the edge of the upstream face plate and one along the downstream face plate. Finished cast-iron plates set into the faces of the piers (Fig. 4) provide smooth surfaces against which the end seals slide. The downstream seal is housed in an iron seat casting, a section of which is shown in Fig. 5. These

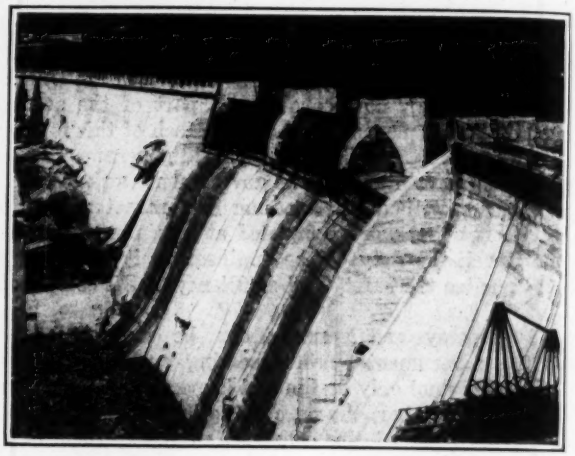


FIG. 1—BLACK CANYON DRUM GATES DURING ERECTION

castings are made in 4-ft. lengths, bolted together and anchored into the concrete. One seat casting at each end and one at the center of each gate are provided with a removable top to facilitate the replacement of the rubber seal. Excessive leakage at the hinges is prevented by holding to the smallest permissible clearance between the hinge parts and between the hinge casting and the 10x½-in. cover plate on the anchorages. The bolt holes in the cover plate are slotted to facilitate adjustment.

Flow into the drum chamber for each gate is controlled separately by a 2.4x3-ft. slide gate set on the center line of one of the piers. The outflow is controlled normally by a 24-in. balanced valve, interconnected with the automatic control system. A separate outlet, closed by a 16-in. gate valve, is provided for auxiliary use. All hand controls, except the auxiliary gate valve, are located on top of the piers, where the operator has a full view of the spillway. The arrangement of the primary controls is shown in Fig. 6. The position of the 16-in. auxiliary valve is shown in Fig. 3. All outlet valves discharge into a 4x5-ft. tunnel running parallel to the axis of the dam, with outlet and air vent at each end of the spillway. Leakage into each drum is removed by two armored drain hose leading from the ends of the drum to a cast-iron drain pipe at the center of the drum chamber. This pipe connects with the discharge tunnel from the outlet valves.

A gallery or passageway through the dam, with con-

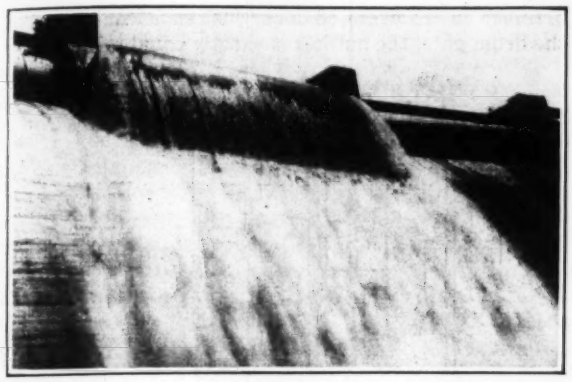


FIG. 2—MIDDLE GATE AT BLACK CANYON IN OPERATION

necting stairways, affords ready access to the operating equipment and to the tops of the piers. Each drum chamber is connected with the operating gallery by a manhole.

Gate Design—The Black Canyon drum gates depart from previous designs for like structures in that the upstream or top face is curved. It is thought that this curvature will improve the hydraulics of the spillway, and stabilize the pressures acting on the drum in partially raised positions.

The curved frame angles act both as beams and struts, and the stresses are more or less uncertain. The uncertainty is increased by the eccentricity of the hinge pins and by doubt as to the pressures to which the gate will be subjected. Neither the reaction of the overflowing jet of water, nor the magnitude of the frictional forces is known. In cases of doubt, parts were designed to take any stresses which might reasonably be assumed to come upon them.

It is necessary that the downstream face be smooth and accurately curved in order that the rubber sealing device may function properly. All rivets in this face were countersunk and tolerance in the radius of the face was limited to ¼ in. plus or minus. The manufacturers claim to have found this tolerance difficult to maintain.

Automatic Control — Each of the three gates is equipped with an automatic control, designed to maintain a fixed relation between the position of the gate and the quantity of water flowing over it. The assembled mechanism of one of these controls is shown in Fig. 6. When, due to an increase in flow, the water begins to overtop a gate, the gate must immediately start down, and must be stopped when it has reached a depth sufficient to permit the passage of the increased flow. This result is accomplished by placing the outlet valve under the control of both the drum gate and the water level above the dam. With the type of control used at Black Canyon, it is necessary that a definite variation in water level be permitted between no overflow and full discharge. A variation of 6 in. was assumed to be permissible.

Fig. 7 is a diagrammatic elevation of the control mechanism. The drum gate is indicated by dotted lines in the raised position and all other parts are shown in the positions they will occupy when the water is on the point of overtopping the crest.

Water for overcoming leakage from the drum chamber and for sustaining the drum gate in its raised position enters through the partially opened hand-operated inlet gate, *A*. This gate is permanently set at the smallest opening which can safely be depended on to maintain the required pressure in the drum chamber, against leakage, with the outlet valve closed. The drum gate is lowered by opening the balanced valve, *E*, and allowing the water to escape from the drum chamber, through the passages B and C. It is not necessary that the inlet gate be closed.

The outlet valves used at Black Canyon are 24 in. in diameter and have a 12-in. stroke. The type was developed originally for use as a bypass control for waterwheels. The valve is operated by the pressure of the water passing through it. The pressure in the chamber *E*, around the needle, is transmitted to the space *U* above the piston *J* through a restricted opening in the bypass pipe *G*. If there is no outlet from the chamber *U*, the pressure intensity on top of the piston will equal that on the bottom. The area exposed

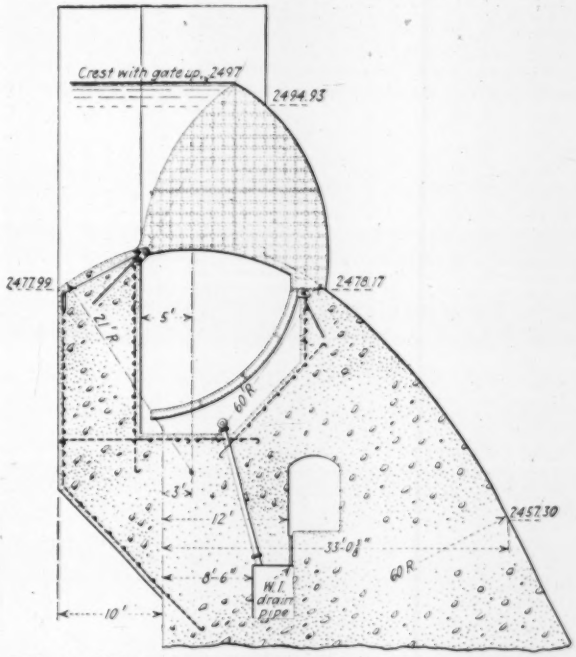


FIG. 4—ENLARGED CREST SECTION (GATE REMOVED)

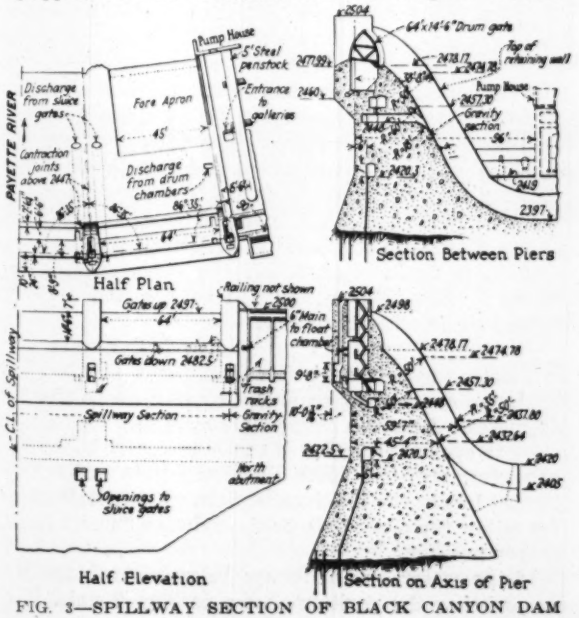


FIG. 3—SPILLWAY SECTION OF BLACK CANYON DAM

to pressure on the top being greater than on the bottom, the needle will be pressed against its seat. If the water is permitted to escape from the chamber *U* through an opening relatively larger than the opening in the bypass pipe, the pressure on top of the piston will drop and the needle will be lifted from its seat by the excess pressure on the exposed part of the bottom of the piston. The outflow from the chamber *U* is controlled through the ports *D* and the pilot valve *F*.

How the Control Acts—Starting with conditions as shown in Fig. 1, let the water surface be assumed to rise slowly. The well around the float *H* communicates with the reservoir through a passage leading to a point beyond the influence of the draw-down curve at the spillway crest. The water level in the float well is always the same as in the river above the dam. If the float is properly adjusted, it will be on the point of rising, with conditions as shown, and will start up with the rising water level. The motion of the float is communicated through the bracket *R* and the sheave rod *V* to the floating sheave *K*, where it is doubled and transmitted to the pilot valve *F* through the bronze tiller rope. When the pilot valve is lifted a short distance the outflow from the chamber *U* exceeds the inflow, the pressure drops and the piston and needle rise. The sleeve rod S is thus lifted until it approaches the pilot valve. Outflow from the chamber *U* is thus checked, pressure builds up above the piston and the needle stops. As the float continues to rise the pilot valve is

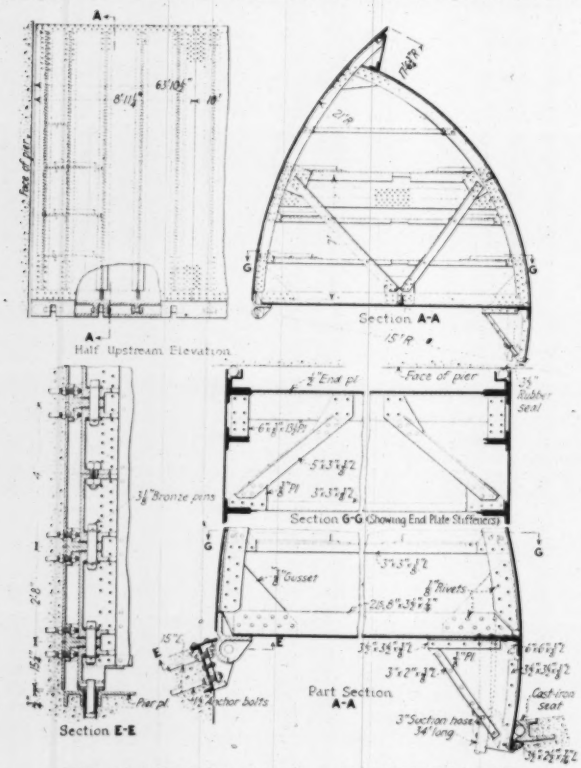


FIG. 5—DETAILS OF 14½ x 64-FT. DRUM GATE

gradually lifted higher, followed at all times by the needle of the balanced valve.

The first small movement of the balanced-valve needle will have no effect on the position of the drum gate, but will only increase the inflow through the gate *A*. When the balanced valve opening becomes such that with a pressure in the drum chamber just sufficient to support the drum gate, the outflow is exactly equal to the inflow,

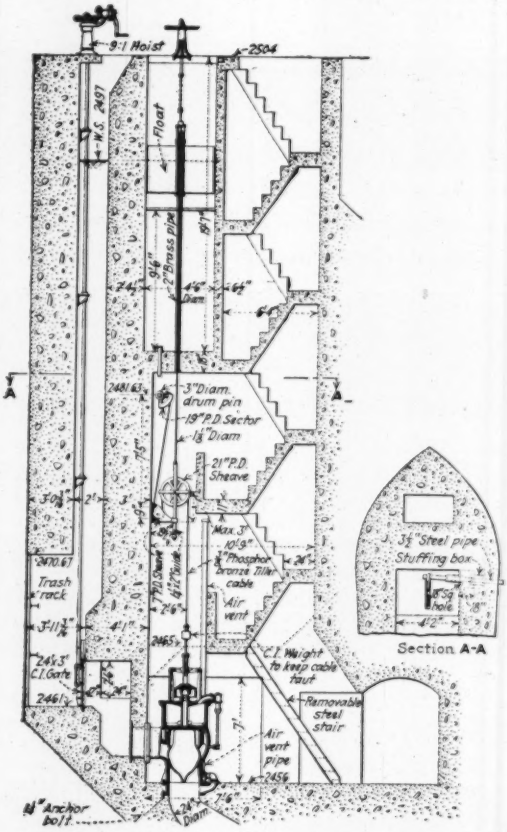


FIG. 6—ARRANGEMENT OF OPERATING MACHINERY

it is in a position which may be called the balancing position. If the water surface continues to rise after this condition is reached, the balanced-valve opening is temporarily increased. As a result, the outflow exceeds the inflow, the pressure in the drum chamber drops and the drum gate starts down. The bronze tiller rope after passing over the floating sheave *K*, passes under the fixed sheave *L*, and is anchored to the sheave sector *M*. The sheave sector is keyed to an extension of the hinge of the drum gate and moves with the drum gate. As soon as the drum gates start down tiller rope paid out at *M* passes under the sheave *L* and over the sheave *K*, allowing the pilot valve to drop. The opening process is thus reversed, and the balanced valve forced down, as the drum gate continues to fall, until the balancing position is again reached. If the water surface continues to rise, this process will be repeated until the drum gate is entirely down.

The cycle of operation for a slowly falling water level is exactly opposite that described for a slowly rising level, the drum gate gradually coming up as the flow decreases. A sudden change in flow causes the balanced valve to open rapidly, but it comes promptly back to the balancing position when the drum gate reaches the correct height for the changed flow. It is not necessary for either the drum gate or the valve to "hunt" for the proper position.

If the water surface drops below normal, the float drops below the position shown in Fig. 7 until it en-

counters some obstruction placed purposely to stop it. Such a movement would ordinarily tend to slack the bronze tiller cable and allow it to kink. This is avoided by a slip joint connection to the valve and a cast-iron weight at the end of the tiller rope, as shown in Figs. 6 and 7. In case of an unprecedented flood the water surface might continue to rise after the drum gate is completely down. The stroke of the pilot valve is somewhat greater than that of the balanced valve. This excess stroke, added to the float movement necessary to fully open the balanced valve, from its balancing position, permits the water level to rise about 12 in. above the theoretical maximum before all play in the system is taken up. In case of a further rise, the float will be held submerged. All parts are amply strong to withstand the resulting strains.

The balancing position of the 24-in. valve need not be computed in advance. It is controlled by the leakage into and out of the drum chamber, by the opening of the inlet gate *A*, and by the coefficient of discharge for the valves. In fact, this position is not constant, but will change from time to time as the condition of the sealing devices and the setting of the inlet gate change. The opening for the balancing position is relatively small and variations are unimportant. After the equipment is in place, proper adjustment is secured by changing the length of the sheave rod *V* or of the bronze tiller rope.

A handwheel hoist, *W*, on top of the pier, flexibly

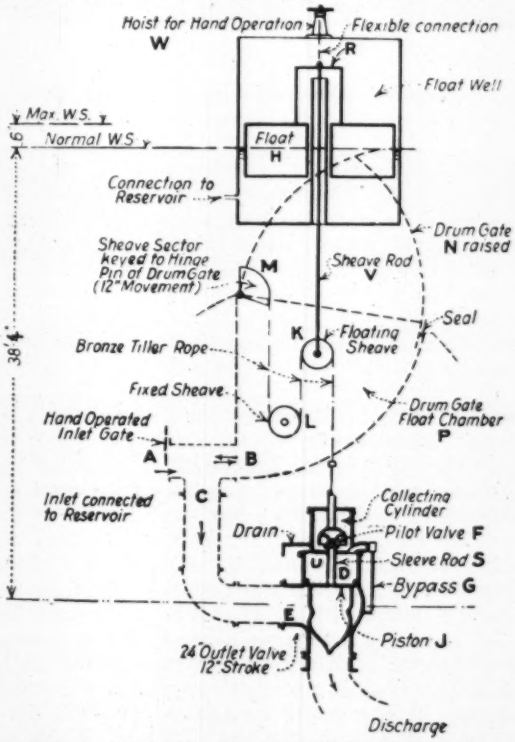


FIG. 7—DIAGRAM OF AUTOMATIC CONTROL

connected to the sheave rod may be used for lowering the drum gate by hand. Lifting the sheave rod with this hoist has the same effect as a rising of the water surface. The flexible connection permits free automatic operation when the handwheel hoist is down.

It should be noted that all parts controlled by the float are free-moving. No stuffing boxes or other parts likely to cause appreciable friction are used. The float was very carefully made, all joints being welded, and it is expected that it will be watertight. However, provision is made for the connection of a drain hose at some future time should leakage develop.

The various elements in Fig. 7 can readily be identified on Fig. 6, where they are shown to actual scale. The passage between the control gates and the drum chamber, corresponding to the passage *B* in Fig. 7 is shown dotted in Fig. 6. The method of connecting the sheave sector *M* to the drum gate is shown in Figs. 5 and 6. It will be noted that the 24-in. balanced valve is air vented a short distance below its seat.

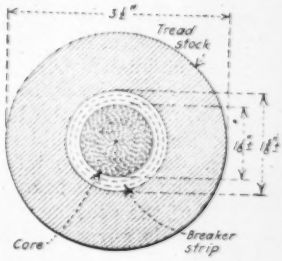


FIG. 8—RUBBER SEAL

Rubber Seals—On spillway gates of the drum type previously installed, leakage from the drum chamber is controlled by metal devices. It is necessary that the metal seals be made in short lengths to permit adjustment to the irregularities of the face plate. There is always a small leakage at each of the joints between sections of the seal. Ordinarily this leakage is of no importance, but at Black Canyon the gates will be in operation throughout the entire year and any small leak will cause objectionable formation of ice in the winter. For that reason an unbroken seal was considered desirable, and the rubber device shown on the drawings was adopted. This seal is water-tight, except for a small leak at each end of the drum gate, due to imperfect connection between the front and end seals. An additional advantage of this type over the usual metal type of seal is that it prevents flow into as well as out of the drum chamber. This is not important at Black Canyon but is advantageous in installations where the drum gate is subject to submergence by the tail water.

Because the Black Canyon sealing device is new, a detailed section of it is shown in Fig. 8. The section and specifications for the seal were adopted after experimentation in the laboratories of the Gates Rubber Co. of Denver. Hollow rolls, solid rubber rolls and rolls with steel cable cores were considered and discarded. The section adopted proved to be very satisfactory from a manufacturing point of view.

Seal Specifications—The specifications are as follows:

Core. The core shall be made of 13.3-oz. Karded Peeler cord fabric, the breaking strength of each cord to be not less than 15 lb., frictioned two sides, skimmed two sides to total gage of from 0.050 in. to 0.055 in., containing at least 400 ends, rolled in such manner as to keep all cords parallel. The length of the fabric core shall exceed the length of the rubber roll by at least 2 ft. on each end, to facilitate the attachment of cables for pulling the sealing device into place.

Breaker Strip. The breaker strip shall be made of two plies of 10½-oz. breaker fabric, frictioned two sides; skimmed two sides to a total gage of 0.120 in. Skim one side with 0.015-in. graduate stock containing 80 to 85 per cent by volume of new plantation rubber. Skim the other side to complete the 0.120-in. gage with cushion stock having at least 95 per cent by volume of new plantation rubber. The breaker must be slit to avoid all laps except final longitudinal lap which shall be approximately ½ in.

Tread Stock. The tread stock shall consist of high-grade material containing 65 to 68 per cent by volume of new plantation rubber free from reclaim, whiting, silica and other coarse material, balanced in compound to permit

thorough cure of all elements without surface over cure. The tensile strength of the tread stock shall be not less than 3,200 lb. per square inch.

General Notes. The different elements shall be well cured and well bonded together so as to withstand the separation tests generally specified for high quality pneumatic cord tires. The surface finish shall be equivalent to that obtained from curing in a jacket of fiber containing 75 threads per inch in both warp and fill. The surface shall be free from spiral corrugations or longitudinal ridges.

Operation of Gates—The drum gates were put in service at the beginning of the 1924 irrigation season. Certain factors in connection with unfinished portions of the work made it desirable to confine the spillway discharge to the middle gate. Unfortunately the balanced valve for this gate was too tight and would not open under the pressure available. Rather than interrupt service to adjust the valve, it was decided to operate the gate by hand until the end of the season. The 16-in. auxiliary valve was used for this purpose. The gate proved to be much more stable under hand control than was expected. The two end gates were held in reserve, ready to be put into service if required.

At the end of the irrigation season the middle gate was lowered and its control valve adjusted. All of the gates were then put under automatic control, and appeared to operate satisfactorily in every respect. However, the flow available was small, and it was not possible to test the automatic operation throughout the full travel of the gates. After a few days' trial, it was necessary to draw down the water behind the dam to permit the installation of gates and penstock connections for the hydro-electric units of the power plant, which work was started in the fall of 1924. Plans are being made to run a full set of tests this summer, should a high-water period occur. The automatic operation has been entirely satisfactory as far as tested.

Designs for the dam and the spillway were prepared under the direction of J. L. Savage, designing engineer, Bureau of Reclamation. The drum gates were fabricated by the Omaha Steel Works of Omaha, Neb., and were erected by government forces under the supervision of Walter Ward, construction engineer, Bureau of Reclamation.

Tests of Bond Resistance in Reinforced-Concrete Beams

Results of Experiments by Bach and Graf Some Years Ago in Germany Give Valuable Information for Design of Reinforcing Bars—Four American Deformed Bars Among Types Tested

By W. A. Slater
Engineer-Physicist, Bureau of Standards, Washington, D. C.

An extensive series of bond tests with concrete beams was reported in Nos. 72-74 (1909) of "Forschungsarbeiten auf dem Gebiete des Ingenieurwesens" by C. Bach and O. Graf. The tests were made to test the effect on the bond resistance of certain variables existing in the concrete and of other variables in the beams. Among the former were variations in water content, character of aggregate, proportions of materials, cements, age and storage. Among the latter were variations in character of the surface of plain bars, form of section of plain bars (rounds, flats, angles, T's and I's), types of deformed bars, and position of load points. In all, 194 beams were tested and important results were obtained. Many of the results are valuable for establishing standards for design and as they have not found their way generally into the textbooks in this country, they are recorded here although they are of long standing.

The latest report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete specifies that "An approved deformed bar shall be one that will develop a bond strength at least 25 per cent greater than a plain round bar of equivalent cross-sectional area," but specifies no standard method of making tests to determine bond resistance. The specified working bond stress for plain bars is 4 per cent of the compressive strength of 6x12-in. concrete cylinders. For deformed bars it is 5 per cent of the compressive strength.

Usual Form of Tests—Most of the bond tests in this country have employed pull-out specimens in which a direct pull has been applied to a bar embedded in a concrete cylinder or prism, though it is almost always in flexural members that bond stresses are critical. In applying the results of pull-out tests to the determination of permissible bond stresses for the design of beams it is necessary to make a comparison of the bond resistance developed by bars of different types at certain arbitrarily selected stages of the test. If the bond resistance at first slip were used for the comparison, the advantage of even the best deformed bar would be questionable. On the other hand, if the resistance at maximum load were used almost any deformed bar would show a great advantage over a plain bar.

If a beam, so designed as to fail by slipping of the bars, is used as the test specimen, service conditions are approximated and the computed bond resistance at maximum load seems to offer a better criterion for judging the value of a deformed bar than the bond resistance at an arbitrarily selected amount of slip in a pull-out test. Of course, even with a beam as a test specimen, certain elements are neglected such as the tendency of a reinforcing bar to slip under long continued or repeated load. It seems reasonable, however, to believe that a long continued load would be more likely to overcome the slip resistance of a plain than that of a deformed bar. If this is so the advantage of a deformed bar over a plain bar would be at least as great for use with a long continued load as is found for a load of short duration and probably it would be greater. It was found by Abrams (Bulletin 71, University of Illinois, pp. 168 and 198) that under repeated loads, corrugated bars resisted slip more effectively than did plain bars and this fact seems to support the conclusion that deformed bars would show advantages with long continued loads.

It is worth while to summarize some of the results obtained by Bach and Graf, especially the values of these results for the bond resistance of plain round and deformed bars, and those showing the relation between

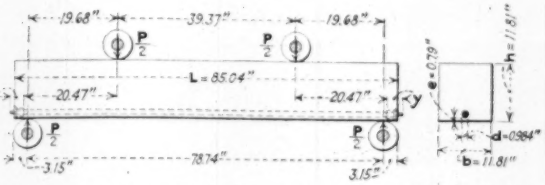


FIG. 1—DESIGN OF BEAMS TESTED IN BOND STRESS

bond resistance of plain round bars and compressive strength of the concrete. These form a valuable addition to the available data on bond resistance.

All values quoted have been converted from the metric to English units. No other computations were necessary since all the computed unit stresses were furnished in the original report. The stresses check very closely with those computed by the methods which have become standard in the United States. In the computations, the ratio, n, of the modulus of elasticity of the steel to that of the concrete seems to have been about 7.5. Figs. 3 and 9 have been prepared from the data reported in the tables, and the loads at first slip have been added to Fig. 4. Otherwise the figures presented here have been reproduced directly from the original paper.

Type of Beams—The beams were 11.8 in. square in cross-section and 7 ft. 1.04 in. long overall. They had a span of 6 ft. 7.8 in. The load was applied at the one-fourth points of the span as shown in Fig. 1.

The concrete used was made from 1 part by volume of Heidelberg portland cement, 2 parts of Rhine sand and 4 parts of Rhine gravel. Control specimens, cubes 11.8 in. (30 cm.) on an edge, were made only with the beams having plain bars. The average compressive strength of the concrete was 3,500 lb. per sq.in.

Of the bars used in the beams four were of American manufacture. These were the Johnson (the old type of corrugated bar), Diamond, Lug and Cup bars. In addition plain round bars and "wave" bars ("Welleneisen") were used. The bars are shown in Fig. 2. The plain round bars were approximately 1 in. in diameter (25 mm.) and had an average sectional area of 0.768 sq.in. The deformed bars generally had a slightly smaller sectional area. The yield-points of the reinforcement and the computed tensile stresses for the maximum loads on the beams are plotted in Fig. 3. It will be seen from this diagram that in several of the beams the yield-point and the tensile stress were so nearly the same that the beam must have been close to failure by tension in the reinforcement. However, the photographs showing the cracks in the tested beams strongly indicate that failure was not due to the high tensile stress in the reinforcement. Fig. 5 shows the cracks in the beams having plain bars. As typical of the beams

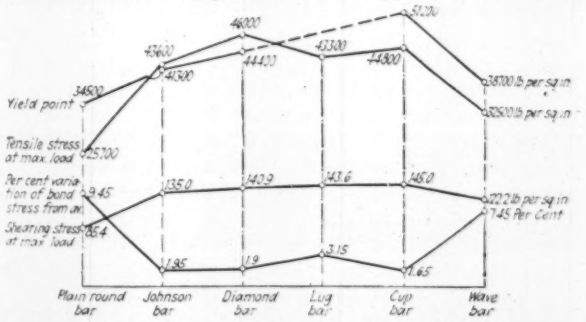


FIG. 3—RESULTS OF TESTS WITH DEFORMED BARS

having deformed bars, the photographs of the beams reinforced with Diamond bars are shown in Figs. 6 and 7. The presence of the diagonal tension cracks indicates that the beam may have been near failure by diagonal tension under the maximum load. Some diagonal cracks were present in most of the beams having deformed bars. However the shearing stresses plotted in Fig. 3 for the maximum load show that the highest shearing stress was about 145 lb. per sq.in. or about 4 per cent of the compressive strength of the cubes. With bars thoroughly anchored against bond failure, diagonal tension failure is not likely to occur at a shearing stress less than 8 per cent of the compressive strength of the concrete when tested as a cylinder whose height is twice its diameter (say about 6 per cent of the strength from cubes), and it seems safe to conclude that none of the failures were primarily due to diagonal tension.

Having eliminated (at least for the greater part) the

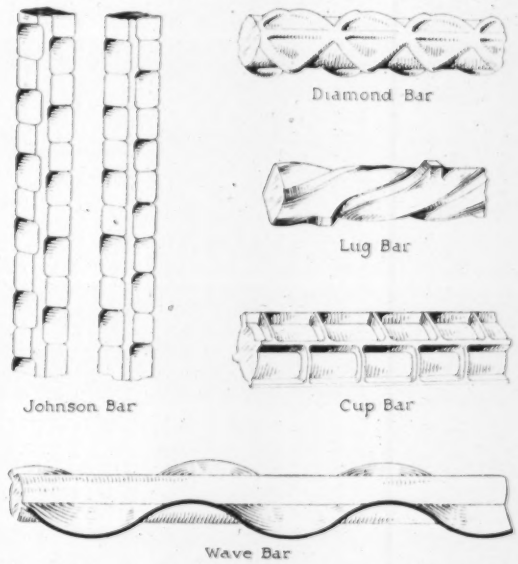


FIG. 2—TYPES OF DEFORMED BARS USED IN THE TESTS

tensile stresses and the shearing stresses as causes of failure, it appears reasonable to use these results for a comparison of the bond resistance of different types of bars.

The report gives for each group of three beams the maximum plus and minus variations of the computed bond stress (for maximum loads) from the mean value for that group. A summary of these variations follows:

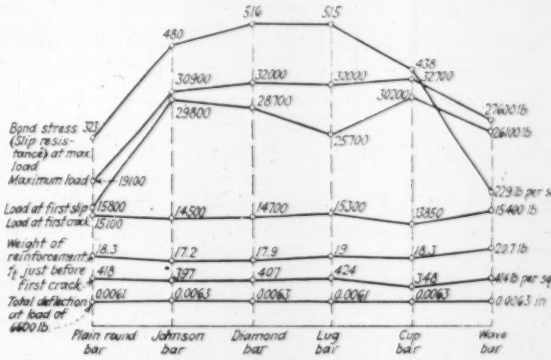


FIG. 4—FURTHER RESULTS OF TESTS WITH DEFORMED BARS

Type of Bar	No. of Groups	Maximum Variations from Mean Bond Stress at Maximum Load (Per Cent) Plus	Minus
Round bars	28	9.6	8.1
Deformed bars	5	3.6	2.8
Flat bars and structural shapes	6	7.1	9.7
Average for all tests	39	8.5	7.7

In Fig. 3 the average of the maximum positive and negative (signs disregarded) variations are plotted for the six groups included in that figure.

Although the slip of the end of the bar was tabulated in the report, the authors seem to have based their conclusions mainly on the maximum loads, giving little or no discussion of bond stresses at loads causing the first end slip. However the tables seem to justify the conclusion that although the load causing the first slip of the reinforcement was little greater than the load causing the first crack for the beams having plain bars, where deformed bars were used the load causing first slip was much greater than that causing the first crack.

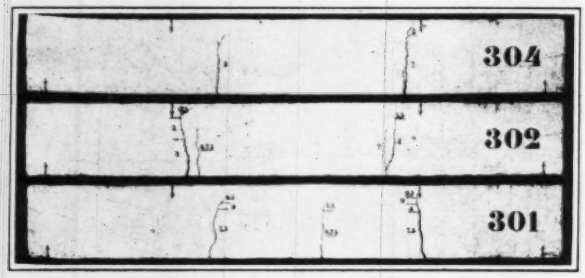


FIG. 5—BEAMS WITH PLAIN BARS; SIDE VIEW AFTER TEST

The average loads causing the first crack and those causing the first slip have been plotted in Fig. 4.

Fig. 9 shows the relation between the compressive strength of the concrete from the cube tests and the bond resistance at maximum load for beams reinforced with plain round bars. The mean line shown corresponds to a bond stress of 0.107 times the compressive strength. The other lines are 12 per cent higher and 12 per cent lower, respectively, than the mean line and include between them all but five of the points. A similar relation between bond resistance for pull-out specimens and compressive strength is shown in "Tests of Bond Between Concrete and Steel," p. 95, by D. A. Abrams, Bulletin 71, University of Illinois Engineering Experiment Station. He found the average ratio of bond resistance from pull-out tests to the compressive strength of cubes to be 0.166 for a slip of 0.0005 in. and 0.24 for the maximum load. Since Abrams found lower bond resistance for beams than for pull-out specimens, the fact that the slopes of the lines in Fig. 9 are less than the corresponding slopes found by Abrams for pull-out tests does not indicate an inconsistency between the results of the two investigations. The following is a free translation of the comments of the authors of the report, on the significance of the tests with deformed bars:

"For the slip (bond) resistance computed according to the official methods (using the average circumferences of the bars) the values given in Fig. 4 were obtained. The American bars show therein a considerably higher slip resistance than straight round bars. The greatest increase over the plain bars was 60 per cent (for Diamond bars) and the least was 36 per cent (for Cup bars). The difference would have been still greater if a splitting off of the encasing concrete had not taken place. (The splitting referred to by the authors is shown by the longitudinal cracks apparent on the bottom of the beams in Fig. 7.)

"On the basis of the slip resistance per unit of total surface area the "wave" bar ("Welleneisen") is inferior to the plain round bar. If the comparison is made on the basis of the maximum load per pound of

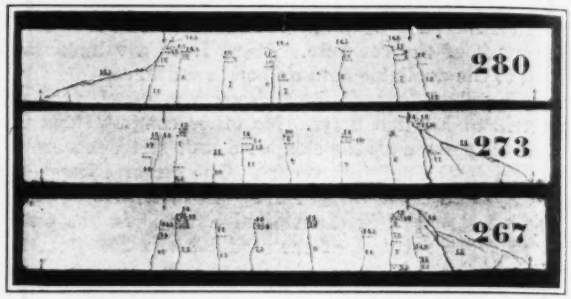


FIG. 6—BEAMS WITH DIAMOND BARS; SIDE VIEW AFTER TEST

reinforcement the relative positions are indicated by the following table:

Bar	Maximum Load per Pound of Steel, Lb.
Johnson	3,960
Diamond	3,950
Lug	3,720
Cup	3,930
Wave	2,935
Plain round	2,305

With this comparison the Johnson, Diamond, Lug and Cup bars appear to have about equal values. A considerably lower value was found for the wave bar and a still lower value for the plain round.

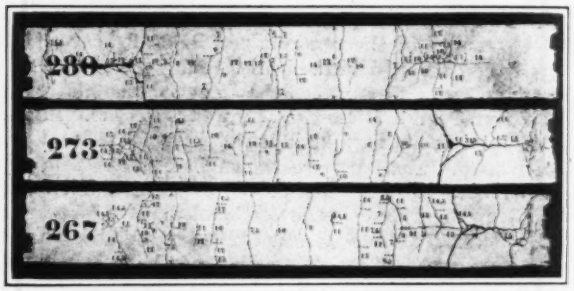


FIG. 7—BEAMS WITH DIAMOND BARS; BOTTOM VIEW AFTER TEST

"With all the beams longitudinal cracks were observed in the concrete covering before the beginning of slip. With progress of the slipping of the deformed bars the adjacent concrete burst off at the maximum load. Figs. 7 and 8 show the bursting effect of the bars on the beam. Fig. 8 is especially instructive. Here the reinforcement (a Lug bar) has split the end of the beam entirely apart.

"After the test, pieces of concrete remained in the recesses of the Johnson, Diamond and Cup bars and on the lugs of the Lug bars. As the slip resistance was overcome the bars had sheared off portions of the concrete which resisted their movement."

Comparison of Values—It is interesting to compare the high value of the slip resistance found for the American deformed bars with the values for plain round bars which had been heavily rusted. The American bars showed 427 to 516 lb. per sq.in., a little greater

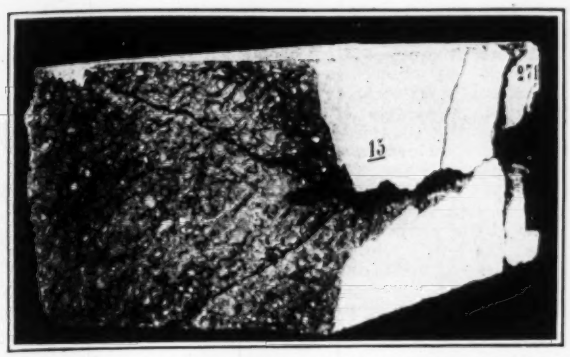


FIG. 8—MANNER OF FAILURE OF BEAMS REINFORCED WITH LUG BARS

on the average, than the 416 lb. per sq.in. found for the rusted bars. The considerable damage to the beams which had taken place with the American bars did not occur with the rusted plain bars.

In comparison with the beams which employed plain round bars the beams with Johnson, Diamond and Cup bars had a large number of cracks. The beams with Lug bars and those with wave bars had a larger number of cracks than did those with plain round bars but not so many as those with Johnson, Diamond and Cup bars. Where the cracks were greater in number they were smaller than those in the beams with plain round bars.

Of special interest is the curve in Fig. 4 showing the load under which the first crack appeared. It is very nearly a horizontal straight line. So also is the curve for the tensile stress, f_t, computed according to the official regulations for a load just before the occurrence of the first crack. A similar curve shows the total deflection under a load of 6,600 lb.

This abstract includes only a small part of the report which gives data on the effect of many other variables on the bond resistance. The data given here bear especially on the design of a standard test specimen for comparing the bond resistance of different types of reinforcing bars.

In a beam to be used as a test specimen for bond it is essential that before the tensile stress in the steel

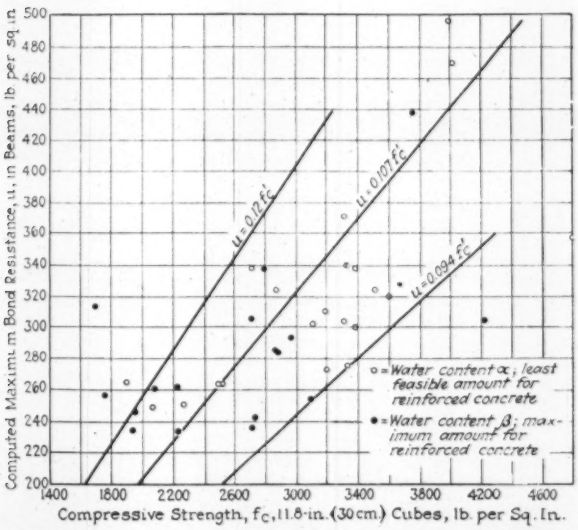


FIG. 9—RELATION BETWEEN COMPRESSIVE STRENGTH OF CONCRETE AND MAXIMUM BOND RESISTANCE

reach the yield-point or the shear in the beams exceed about 10 per cent of the compressive strength of the concrete, a very high bond stress shall have been developed. Otherwise failure is likely to occur by tension in the steel or by diagonal tension in the beam and the test will yield little information on bond resistance.

Assuming that structural grade steel may be used with concrete having a compressive strength, in 6x12-in. cylinders, of 2,000 lb. per sq.in., stresses of 40,000, 200 and 500 lb. per sq.in. in tension, shear and bond respectively, may be taken as about the proper relation between stresses to insure bond failure with either plain or deformed bars. This will require a beam 7.85 in. wide and with load points 20 in. from the support. Whatever depth is chosen, the above relations between computed stresses will remain the same. Therefore a beam 8 in. wide, 12 in. deep, reinforced with a 1-in. bar and having a span of 60 in., with loads at the one-third points of the span, seems to meet the requirements. Such a specimen should be provided with stirrups. For this purpose vertical U-stirrups of ¼-in. round, spaced 3 in. c. to c., are suggested. The most potent argument against the use of stirrups in a beam designed as a bond specimen will be probably that in practice not all beams have stirrups, that the stirrups in the test specimen will add to the bond resistance and that therefore a value which is too great for design purposes will be obtained from the tests. To the writer, these objections to the use of stirrups do not seem valid. In a beam reinforced with a good deformed bar it is difficult to develop a load high enough to determine the maximum bond resistance if the beam does not have stirrups because the failure is likely to be by diagonal tension. In practice, it is not permissible generally to use a shearing stress greater than 40 lb. per sq.in. without providing stirrups and at this shearing stress the bond stress will usually be quite low. Since practically all reinforced-concrete beams in which the bond stress is critical have stirrups there should be no objection to the use of stirrups in the standard test specimen.

This statement does not fully take into consideration the conditions frequently existing in footings where, on account of the use of reinforcing bars at right angles to each other, cracks may open along a bar and permit slipping at comparatively low bond stresses. Such cases require special and careful consideration.

It is true that the same object could be attained (in part at least and possibly better) by increasing the width of the beam as by using stirrups. It is believed, however, that the narrower beam with stirrups will keep the test conditions more strictly within the field in which the results are to be applied in design than will a wider beam without stirrups. Unwieldiness of test specimen also will be guarded against by the use of the narrower beam. Some investigation aimed at determining the proper form of test specimen is much needed. Such an investigation should also obtain data bearing on the desirability of using a long continued load in the standard tests.

Completion of the Welland Canal

Completion of the Welland ship canal connecting Lake Erie and Ontario is expected during the year 1929, according to estimates of the Ontario government. Up to the end of March, 1925, the sum of $51,200,000 had been spent upon the project. Approximately $100,000,000 is the estimated total cost.

Refuse Collection and Disposal in Pittsburgh

Engineers Find Record Per Capita Collection Under Contract and Advise Continuation of Plan With Minor Changes

Abstract of a Report made to the City of Pittsburgh, Pa., by Morris Knowles, Incorporated, Engineers, Pittsburgh, Pa.

THE MAIN conclusions of this report are: (1) The quantities of garbage and rubbish collected in Pittsburgh, Pa., are higher per capita than in any other American city (see table). (2) Pittsburgh is probably the only large city in the United States in which a complete collection of garbage and household trash or rubbish is carried out entirely by contractors. (3) The contract system has proven cheaper than the amount estimated for municipal ownership and operation. (4) Unique features of the contracts now in force as well as suggested improvements in these contracts warrant the continuance of the contract system, with some recommended changes.

While the amount of garbage per capita in Pittsburgh is only slightly greater than that for Washington, D. C., it is considerably greater than in any of the other cities listed in the accompanying table. None of these cities, however, compares in any way with Pittsburgh in the quantity of rubbish collected per capita. This can be accounted for primarily by the complete and thorough system of collection now in use, and particularly by the fact that the contractors are paid on a tonnage basis and are careful therefore to get all the material available and to keep very accurate records. The fact that Pittsburgh is a gas burning city also tends to increase the quantity of household rubbish and the amount of soiled and unsalvageable material.

Contractors—Contracting companies now perform the entire service for the city of Pittsburgh, one confining its operations to the "North Side" and the other to "Peninsular Pittsburgh" and the "South Side." Both collect garbage and rubbish, separately. The garbage is reduced with reclamation of grease and tankage. Rubbish is incinerated after sa vaging to some extent. No public collection of ashes is made.

In one respect the system in Pittsburgh is somewhat different from that of other cities of its size.

Where the service is not carried out entirely under municipal ownership and operation, other municipalities generally contract for the disposal of material after it is delivered to the contractor either on scows, at a loading station, or at the disposal plant. Cincinnati has complete collection and disposal of garbage by contract but Pittsburgh is the only large city having complete collection and disposal of both garbage and rubbish by contracting corporations. In fact, Pittsburgh is one of the few gas burning cities which has a complete and thorough rubbish collection system. The continuance of the contract system is the special recommendation of this report, and is brought about primarily because of cost, and secondly because of certain provisions which can be incorporated in the contracts.

Cost—In view of the large quantities per capita, it was deemed advisable to make all studies on a tonnage basis. The present weighted average cost of collecting garbage in Pittsburgh is $3.80 per ton, while the average in seven of the cities in the United States, where records were available, is $4.47 per ton, excluding in both cases any allowance for interest, depreciation, federal taxes and profit. The total present cost of collection and disposal, including an allowance of $1.50 per ton to the contractors for interest, depreciation, profit and federal taxes, is $6.30 per ton for garbage and $7.67 per ton for rubbish. (Price bid less a profit-sharing rebate of $1.50 a ton.) Studies of the cost of owning and operating the system municipally showed that the combined collection of garbage and rubbish would be cheaper than the separate system now used. The estimated cost for 1925 on the basis of combined collection and incineration is $6.50 per ton, which cost, it is estimated, will gradually reduce to about $6.30 per ton by 1935. The estimated cost is but slightly less than the average actually being paid the contractors. Assuming the same efficiency by the municipal organization as now practiced by the contractors, and including a return on an investment in plants and equipment of $3,500,000, little or nothing could be saved by changing over from the contract system to municipal ownership at this time.

Special Features of Contract—After a very complete study of the advantages and disadvantages of the contract system, it is recommended that (1) the contract provide primarily for the continuance of the system of paying a definite rate per ton for collection and disposal; (2) for the imposition of penalties as liquidated damages for failure of the contractors to collect in any specific case; (3) that there be a sliding scale for rebating to the city profits in excess of given amounts per ton.

The price per ton basis furnishes an incentive to the contractor to collect all material. Since his profit is increased with the additional tonnage disposed of, this will result in uniformity and completeness of collection. Fines are now imposed upon the contractors upon failure to collect within 24 hours after the filing of a complaint. The changes recommended in the contract would call for the fining of the contractors upon the filing of all bona fide complaints. This would tend further to reduce the total number of complaints.

GARBAGE AND REFUSE COLLECTIONS IN NINE CITIES

	Pounds per Capita per Year	
	Garbage	Rubbish
Pittsburgh	328	375
Washington, D. C.	315	79
Detroit	257	...
Cleveland	247	...
Philadelphia	246	...
Boston	208	85
Milwaukee	195	...
Rochester	148	66
Buffalo	...	116

Under the present contract there is rebated to the city any amount by which the earnings of the company exceed $1.50 per ton; this amount being fixed as a fair allowance for interest, depreciation, profit and federal taxes. The report recommends that a sliding scale be substituted. This sliding scale should provide a means by which the city and the contractor may both share in the difference between the cost and the bid price. A rebate of this nature would consist of an increasing proportion of the difference accruing to the contractor, so that the greater the economy achieved, the greater the profit to the contractor. It may be that this modification could be varied as experience indicated, and therefore but a slight change is recommended immediately. The results of experience with such a change will indicate whether additional steps might be taken another year. The wording of the suggested contract pertaining to this provision is as follows:

"Provided it is the intent and meaning of this contract that the above-mentioned rates shall be the maximum to be received by the contractor for said work and that the contractor agrees that said rate shall be reduced to a rate equal to the cost of doing the work according to the specifications, which cost shall not include any allowance for depreciation of plant and equipment, plus $1.50 per ton net profit, out of which profit are paid any taxes due the United States Government from the contractor; provided, however, that should the reduction below the above-mentioned rates exceed 75c. per ton, then the contractor shall be entitled to participate equally with the city of Pittsburgh in all savings above 75c. and not exceeding $1.25, and provided further that should such saving exceed $1.25, any amounts in excess of $1.25 shall accrue 60 per cent to the contractor and 40 per cent to the city of Pittsburgh."

Thus the city can obtain all the advantages of cost-plus-variable-fee contract, without the attendant disadvantage of taking away from the contractor the incentive for greater profit due to efficient performance. Such a contract would have the additional advantage of fixing a maximum price which may not be exceeded and therefore would limit the liability of the city under the contract.

(Subsequent to submission of this report, the city council, over the veto of the mayor, has approved contracts with the old contractors upon the same basis as that of last year—$7.03 per ton for garbage and $8.27 for refuse, with a rebate to the city of earnings in excess of $1.50 per ton. There was no competition.)

Dirt Roads Improved by Lime Mixed with Surface Soil

Test Roads in Missouri Show Less Mud and Fewer Ruts—Maintenance Made Easier—Theory of Action Unexplained

BY E. J. MCCAUSTLAND
Dean, School of Engineering, University of Missouri, Columbia, Mo.

Extract from a paper read before the National Lime Association at its convention at Briarcliff Manor, New York, May 26-29, 1925.

THE common agricultural soils containing silts, loams or clays are never entirely suitable for all-weather roads; and yet it is likely that more than 80 per cent of all country and by-roads for generations to come will of necessity be constructed upon and of such soils. It is a pressing problem to know what can be done to improve this situation.

In the fall of 1923 the Engineering Experiment Station of the University of Missouri entered into a co-operative agreement with the National Lime Association to conduct field and laboratory investigations in an attempt to determine the effect of the use of commercial lime on earth roads, with the hope of reducing both the inconveniences and the expenditures caused by the formation of mud. The work was placed directly in charge of Horace W. Wood, Jr., as research fellow in the experiment station and the material used in the investigations was donated by some of the constituent companies of the National Lime Association.

Laboratory tests were begun in December, 1923, to determine the more obvious physical characteristics of the soils under investigation and to become acquainted with the changes wrought in those characteristics by the addition of predetermined percentages by weight of lime. At a somewhat later time selected stretches of clay roads, subject to heavy traffic, were treated with varying percentages of hydrated lime and these stretches have been kept under observation for a number of months. The winter season of 1924-25 was an extremely trying one on these test roads because of a heavy fall of sleet and ice early in December and a continuation through the winter of alternating periods of thawing and freezing. In every case, however, these tests sections, all of which have been carrying traffic during the past seven to eleven months, show to the most casual observer the distinct advantage of lime admixtures in preventing surface stickiness and the formation of deep ruts under traffic. In brief, it seems to have been established beyond question that the addition of hydrated lime in the proportion of from 2 to 5 per cent dry weight to clay soils will materially reduce the tendency to form mud and prevent to a great degree the formation of ruts; there is reason to believe, however, that such treatment will not in any degree lessen the production of dust and in some cases the dust may be increased.

Test Sections—The following facts are abstracted from Mr. Wood's monthly reports: Early in July, 1924, a stretch of 500 ft. of road near Hallsville, Mo., was treated with hydrated lime to a depth of 5 in. On 250 ft. the proportion used was 2 per cent by dry weight and on the remaining 250 ft. 5 per cent by weight was incorporated in the soil. Later a section of road 250 ft. long was treated with 5 per cent of hydrated lime incorporated to a depth of only 2 in. for purposes of comparison. These road sections have been under careful observation since the original treatment and especially after rains; the clay and lime mixture does not stick on the wheels of passing vehicles but smooths out and packs much more quickly than does the untreated clay; there appears to be a more uniform vertical distribution of moisture in the treated soil, and a reduced moisture content at the bottom of the treated section. Maintenance is therefore more easily accomplished on the treated portion because there is no formation of the hard crust on the top before the road is sufficiently dry to drag, such as is characteristic of the untreated clays. No marked difference appears in the results brought about by the different depths of incorporation and this is of some importance since it so directly affects cost of treatment. The laboratory tests of the heavy clays indicated a slight retardation of surface evaporation on the treated samples but this fact seems to have no practical significance. Some two months after the Hallsville experiment was begun it was observed that there was no development of ruts in the treated portion of the road following heavy rains while the untreated portion showed ruts from 2 to 4 in. in depth. Furthermore, the maintenance of the treated stretch of road seemed to be much more easily accomplished than that of the untreated part, mostly due to the fact that it could be begun much more promptly after the rains ceased.

Two other important test roads were established; one during September, 1924, in the Missouri River bottom lands near Jefferson City where the native soil is known as a Wabash clay. This was divided into two sections of 500 ft. each, treated with 5 per cent hydrated lime, one section to a depth of 2 in. and the other a depth of 6 in. A second stretch of 400 ft. was established about Nov. 1 at Matney near St. Joseph, Mo., on a heavy blue clay with 5 per cent of lime to a depth of 6 in. On March 1 after the winter season the Jefferson City test road was found to be in excellent condition as compared with the untreated portions particularly in the matter of freedom from ruts. This was especially satisfactory considering the trying weather of the winter season. The advantageous results of lime treatment, however, were not so apparent on the St. Joseph road so early in the season. This was in some degree due to the fact that treatment took place late in the autumn and the road was not thoroughly consolidated when freezing occurred. The ice cap which formed in December persisted for some weeks and when the breakup came there was a considerable development of mud for a short time. However, the traffic soon compacted the roadway and since that time the treated section has shown a marked advantage in comparison with the adjacent portion of the normal clay. An inspection on April 11 showed it to be in good condition. The following tabulation offers in condensed form information relating to the various field test sections:

Date of Treatment	Location	Kind of Material	Length of Section Ft.	Depth of Treatment, In.	Per Cent wt. hyd. Lime	Cost per 100 Ft.
1924	Hallsville Road:					
7-10	Section 1	Clay	250	5	2	$19.15
7-10	Section 2	Clay	250	5	5	36.75
9-1	Section 3	Clay	250	2	5	15.13
	Jefferson City Road:					
9-15	Section 1	Wabash	500	2	5	16.05
	Section 2	Clay	500	6	5	38.26
11-1	St. Joseph Road	Clay	400	6	5	48.86

In all cases, except the last, the width of the roadway treated was 14 ft. The St. Joseph stretch was 20 ft. wide, but the cost indicated above is, for purposes of comparison, computed on the basis of 14-ft. width. The results of the investigation to date from the practical viewpoint seem to be encouraging, although the effect of a long period of time on the stability of the mixtures is yet to be determined. So far, the changing moisture content, due to alternate wetting and drying, the wide ranges in temperature and the action of traffic have not destroyed the favorable effects of the lime, but it is deemed wise to extend the observations over a longer period of time.

Only negative results may be reported, however, in relation to the fundamental physical phenomena investigated; in the words of Mr. Wood, "the tests . . . do not explain the basic action which results from the lime admixture." These facts are apparently established, however. The specific gravity of the soil is only slightly reduced by adding hydrated lime; the moisture holding capacity and moisture equivalent are reduced in heavy clays; the rate of evaporation is slightly retarded; but there is a more rapid capillary movement of the moisture after treatment; the voids in the soil become enlarged allowing an increased rate of percolation; and the bearing power at the higher moisture content is increased. We cannot, however, at this time offer a scientific explanation of these phenomena. It will no doubt need the co-operative efforts of the engineer, the physicist, the geologist and the colloidal chemist to lay bare the whole story of cause and effect.

Correcting the Name of V. P. Maun

The author of the article on Abrams' Water Cement Ratio that appeared in *Engineering News-Record* May 28, p. 885, was V. P. Maun, and not V. P. Mann as given there.

One of a Series of Articles on the Details of Design and Layout of Different Types of Industrial Buildings

Building for Industrial Research and Testing Work

Housing Experimental Engineering Activities of Motor-Truck Factory—Laboratories and Machine Testing Rooms

INDUSTRIAL research and experimental testing work on materials and mechanism used in motor-truck construction are the purposes for which an engineering and laboratory building has been established as a part of the motor-truck manufacturing plant of the White Motor Co., Cleveland, Ohio. This building not only provides improved facilities for all the experimental work of the company, but also releases for physical and chemical testing certain portions of the plant buildings which have been occupied as laboratories.

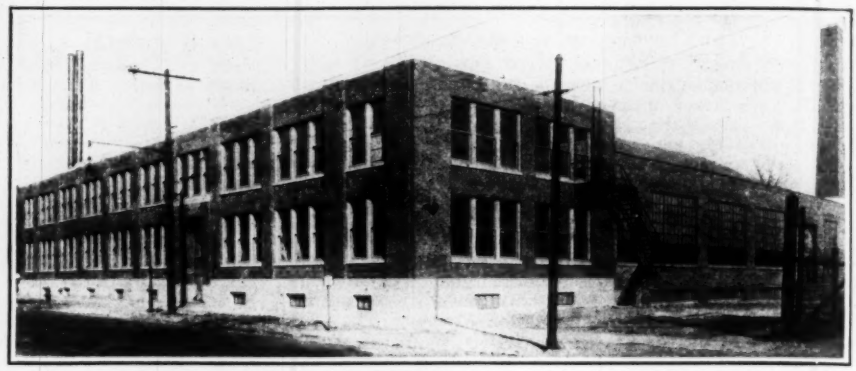


FIG. 1—ENGINEERING BUILDING FOR THE WHITE MOTOR CO.

In view of the hard service and rough usage to which motor trucks are subjected, it is important that their engines and other mechanism should be able to withstand such severe service; this requirement is the basis of much experimental work on special grades of material and special types of construction. The company's combined design and research department establishes standard practice in motor work, develops new designs and perfects them by experiments and tests, so that they will be in condition for handling by the production department without further experiment. The engineering department controls all changes and refinements in designs, and conducts research into new devices and methods which may be applicable to motor transportation.

This engineering building, Fig. 1, is 160x150 ft., with a one-story portion 110 ft. wide which is divided into two equal parts by a tile fire wall and is covered by a steel-frame sawtooth roof with trusses of 40-ft. span in rows 10 ft. apart. At one side of this portion of the structure is a two-story building 160x40 ft. containing offices, laboratories and the designing department. This latter portion of the structure is designed for two additional stories when required, and the entire building can be extended at the rear and on one side. A basement extends under the entire area. Fig. 2 is a typical section of the one-story shop and Fig. 3 is a plan of the first floor.

Reinforced-concrete construction is used for the basement, with columns spaced 20x20 ft. c. to c. and carrying the first floor which is designed for 350-lb. load. The greater part of this floor is a 9-in. flat slab with four-way reinforcement, but in the experimental shop it is a paneled slab with central 8-in. panels 12x12 ft., while over the columns are belts 8 ft. wide and 12 to 16 in. thick. This floor slab is made exceptionally heavy in order to absorb the vibration that might result from a number of dynamometers running simultaneously. Built into this slab, in the testing or dynamometer room, there is a system of channel inserts and covered drains that together give great flexibility for setting up testing equipment.

Above the first floor the structure is of steel framing, of somewhat heavier design than is usual for such buildings. The upper floor, designed for a 150-lb. load, is of tile-joist construction, with 24- or 26-in. girders forming panels 16 ft. wide, with transverse joists, as shown in part by Fig. 3 and in detail by Fig. 4. With 24-in. beams, the joists are 4x8 in., spaced 16 in. c. to c.,

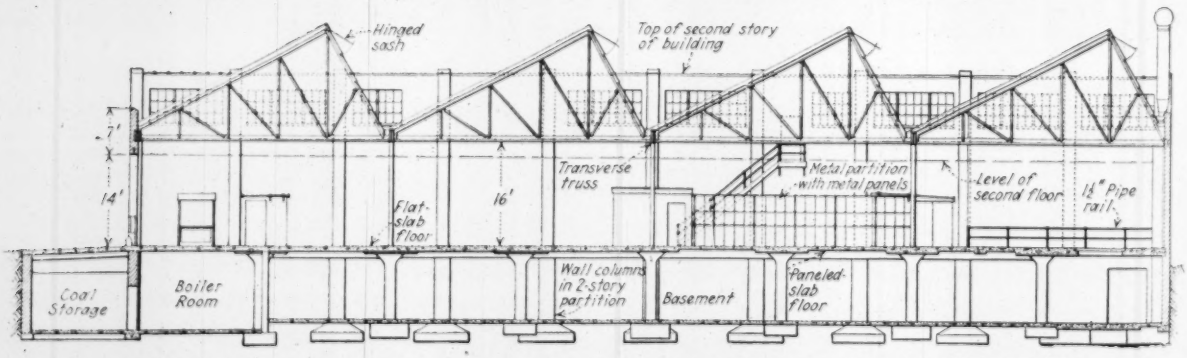


FIG. 2—TYPICAL SECTION OF ONE-STORY SHOP OF WHITE MOTOR CO. RESEARCH BUILDING

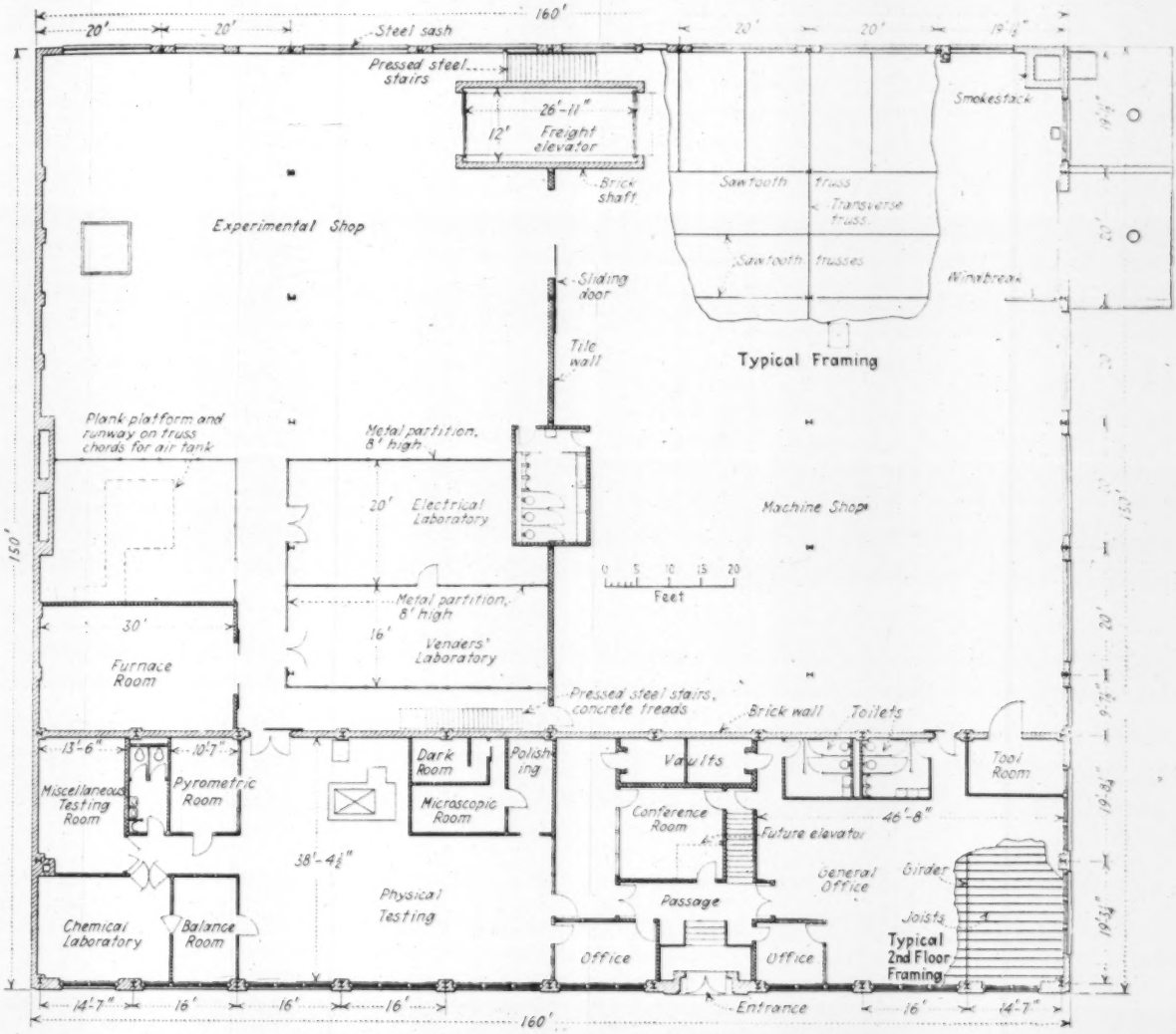


FIG. 3—PLAN OF ENGINEERING AND TESTING BUILDING

and having a 2-in. top slab; the tile fillers are 6x12 in. In the heavier panels with 26-in. beams, the 2-in. top slab has joists 6x10 in. spaced 18 in. c. to c., with tile fillers 8x12 in. In view of the future additional stories, provision is made for an elevator shaft, by building a suitable frame in the floor system and filling this with a removable slab (see Fig. 4). In the one-story portion of the building, the sawtooth roof framing is designed to carry 5-ton suspended loads on overhead traveling trolley hoists or transfer cranes.

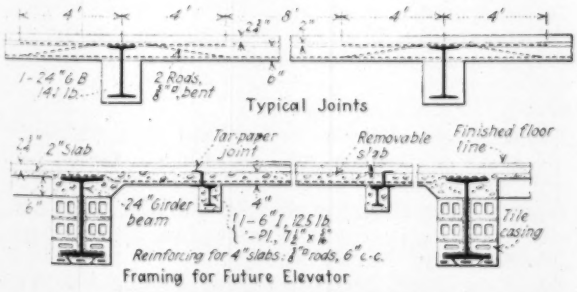


FIG. 4—STRUCTURAL DETAILS

Red pressed brick is used for the outer walls, with steel sash and factory ribbed glass for the windows in the shop portion and in the rear of the two-story portion, but with wood sash in the remainder of the two-story building. Interior partitions are of brick and tile. Over the 9-in. slab of the first floor the floor construction consists of 1 in. of tar-rock, 2-in. plank and a wearing surface of 1⅛-in. square-edged maple. An exception to this is in the portion for offices, where ⅞-in. maple flooring is nailed to sleepers embedded in the fill; the latter construction is used also for the entire upper floor. The future third floor forms the roof of the second story. In the sawtooth roof, the flat slopes are covered with plank and ceiled on the under side with metal lath and plaster. The basement is utilized for storage and also contains the heating boiler and coal storage room.

On the first floor of the two-story front portion of the building are the engineering and metallurgical offices, physical testing room, chemical laboratory and microscope rooms. A design department occupies the entire second floor. The one-story portion at the rear, divided into equal parts by a tile wall, houses the engi-

neering research laboratories and a machine shop for use in connection with the experimental and research work.

About six dynamometers can be installed on the testing floor for testing engines, axles, transmissions and other parts or mechanisms. At each dynamometer station there are provided hot and cold water, compressed air at high and low pressure, gas and vacuum pipe connections, there are also electric connections for 110,- 220- and 440-volt alternating and direct current, so arranged as to make it impossible to connect from one potential to the other. The exhaust ventilating system leads through a separator into a blower of such capacity and so arranged that the back pressure on each engine can be controlled even when all dynamometers are running at full load. There is also a complete equipment of chemical and physical testing apparatus.

This engineering building was designed by the Watson Co., architects and engineers, Cleveland, in co-operation with Frank Brown, chief engineer, and H. Hylkema, plant engineer of the White company. It was built under their supervision by the George A. Rutherford Co., Cleveland. Its total cost was nearly $300,000, including equipment, and it houses about 100 men employed on the research work, including technical men and workmen.

Design Considerations in Dix River Rock-Fill Dam

Study of Experience with Rock-Fill Dams Justified Use of Steep Slopes and Concrete Facing — Great Spillway Capacity Removes Danger of Overtopping—Novel Closure Device—Large Concrete Plug Valve

A REVIEW of the problems encountered in planning the Dix River Dam of the Kentucky Hydro-Electric Co. was given by the designer of the dam, L. F. Harza, before the American Society of Civil Engineers at its recent Cincinnati meeting. The methods of building the great structure, which is the highest rock-fill dam ever attempted, were described in our issue of April 2, p. 548, but only bare reference was made at that time to the many interesting engineering features of the dam.

General Form of Dam—While rock-fill dams, though used extensively in the West, have remained foreign to the eastern half of the country, the Dix River enterprise presented conditions which either prevented or made undesirable the adoption of any other type. The width of the valley was considered too large for advantageous use of a single arch dam, and the proposed storage height (about 240 ft.) was believed to be so far beyond precedent in multiple-arch construction as to make it prudent not to consider this type. Material for hydraulic-fill construction was not available at the site of the dam. Something cheaper than the gravity type of dam was desired. In the early stages of the enterprise it was planned to develop initially only part of the head, the dam to be raised to full height later; under this condition a rock-fill dam was considered as lending itself well to increase of height without involving great extra expense in the initial construction. But even after it was decided to develop the full head from the start, the rock-fill type still was found to be the most suitable. The great storage height proposed was a factor in the conclusion, as it was thought that because of its inherent stability the rock-fill dam would involve less risk in an increase of height beyond prior practice than any other type.

Fig. 1 gives the dimensions and form of the structure and the principal features of its upstream face protection. The main design problems subsequent to the decision in favor of the rock-fill type were centered in this face protection. The dam itself was planned and built simply as a miscellaneous fill of rock of random size as excavated, placed substantially to maximum slope, and requiring no study of stability in view of the well-established resistance of such structures to displacement or distortion by water pressure.

A dense, non-crystalline limestone free from fossils is the material of the dam. It was found to have an absorption of only 0.079 per cent, while its crushing strength ranged from 12,500 to 15,000 lb. per sq.in.

The downstream slope of the dam is 1 on 1.4, slightly flatter than the natural slope resulting when the material is dumped over the top of a high slope, which is 1 on 1.3, approximately. When carefully placed the material will stand at steeper slope, however, and accordingly the upstream face is built to a slope of 1 on 1.2 at the bottom, changing to 1 on 1 at the top.

In order to make the dam substantially watertight, the upstream face is covered with a concrete paving. This pavement rests on a tightly laid dry rubble slope-wall placed directly on the rock fill, with a thickness ranging from 14 ft. at the base of the dam to about 7 ft. at normal water level.

Design of Facing—The rubble slope-wall, built of large stones, ranging from 3 to 8 tons in weight, random laid, thoroughly chinked and wedged with spalls, is expected to stabilize the face of the dam and smooth out the settlement considerably. Nevertheless it was thought that local settlements of considerable amount might occur, and the first design of the concrete pavement, therefore, provided for laying it in 8-ft. squares, articulated at the joints to transmit shear and yet give complete flexibility. A study of existing rock-fill dams showed, however, that such local settlements do not occur. Mr. Harza plotted the crest settlements of the Swift dam, near Valier, Mont., which is 160 ft. high above stream bed and 190 ft. above foundation rock, in the curve reproduced in Fig. 2, which reveals no local irregularities exceeding 0.3 ft., although the maximum settlement at midlength is 2¾ ft. Similar observations made at other high rock-fill dams indicated that the proposed extreme subdivision of the paving slab was unnecessary, and showed that the settlement might be expected to occur in an evenly distributed manner, generally proportional to the depth of fill at the point in question, so that only general flexure of the facing slab needed to be provided for.

Accordingly, the slab was studied as a continuous membrane or pavement, and while it was divided into rectangular panels 48x70 ft., by expansion joints, running down the slope and horizontally, these were provided for expansion and contraction rather than to give flexibility. Mr. Harza says:

Our slab is so designed that a general deflection of the entire face of the dam, considered as a beam uniformly

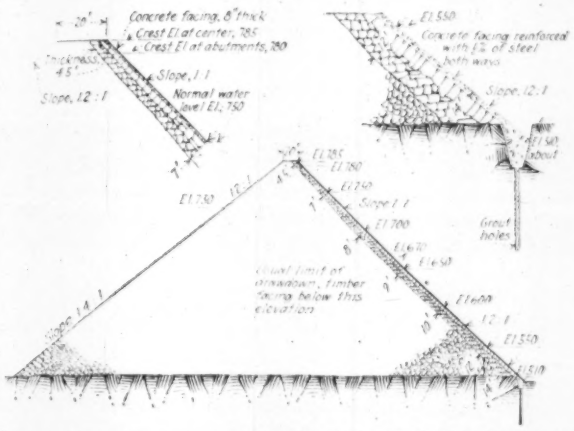


FIG. 1—HIGH ROCK-FILL DAM OVER DIX RIVER—RUBBLE, CONCRETE AND TIMBER FACING ON UPSTREAM SIDE

loaded, to the maximum amount of 10 ft. near the upstream heel, where the depth of fill is small, and increasing to a deflection of 102 ft. at the crest, where the depth of fill is about 275 ft., could safely occur without exceeding safe unit stresses in the slab, and local settlement in individual panels between the expansion joints spaced 48 ft. apart could occur to the extent of 1.73 in. near the bottom, increasing to 3.5 in. near the top, for normal working stresses in concrete and steel, and about three times this amount before failure of either. . . It is, therefore, believed that the flexibility of the concrete facing will be ample to accommodate any prospective settlement without exceeding safe unit stresses, either in steel or in concrete, and without resultant cracking and leakage of the facing slab.

The slab as built is 18 in. thick at the bottom and 8 in. thick at the top. It is reinforced with 0.5 per cent steel in each direction, located in the middle of the slab. The concrete was proportioned for a strength of 3,000 lb. per square inch in 28 days and was thoroughly tamped under top forms, which were built up not more than 1 to 4 planks (10 to 40 in.) above the concrete.

At the expansion joints, the abutting slabs rest on concrete ribs formed in grooves built in the slope-wall, and are joined to the ribs by U-shaped copper seal strips, above which the joint is filled with compressed cork. These ribs are 48 ft. apart horizontally and 70 ft. up and down the slope.

Timber Surfacing—As a further safeguard in the matter of water-tightness, the top forms of the concrete slabs were left in place, for the lower 160 ft. of height of the dam. Since the reservoir is intended for power use, it will not be drawn down below this

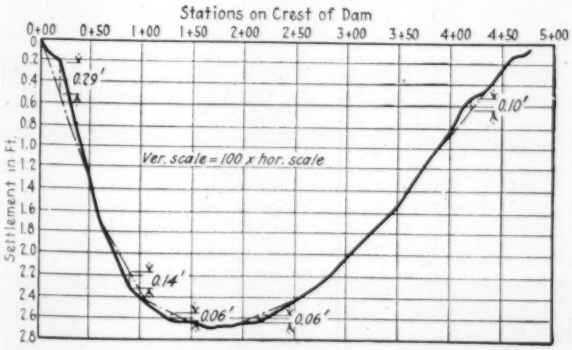


FIG. 2—CREST SETTLEMENT OF SWIFT DAM (AFTER NINE YEARS' SERVICE)

elevation while the plant is in operation, and the dam thus is in a different condition from storage dams for irrigation or water-supply purposes, which can be inspected from time to time by draining the reservoir. Since an upper form was necessary in any event for pouring the pavement slab, it was decided to build the form carefully and leave it in place permanently on the concrete, as an additional seal. Well-seasoned 3x10 yellow pine lumber, tongued and grooved, was used for the form. It was laid rough side down and bolted into the concrete. It is believed by the designers that this sheathing will swell to form a very tight diaphragm, as permanent or more so under water as the

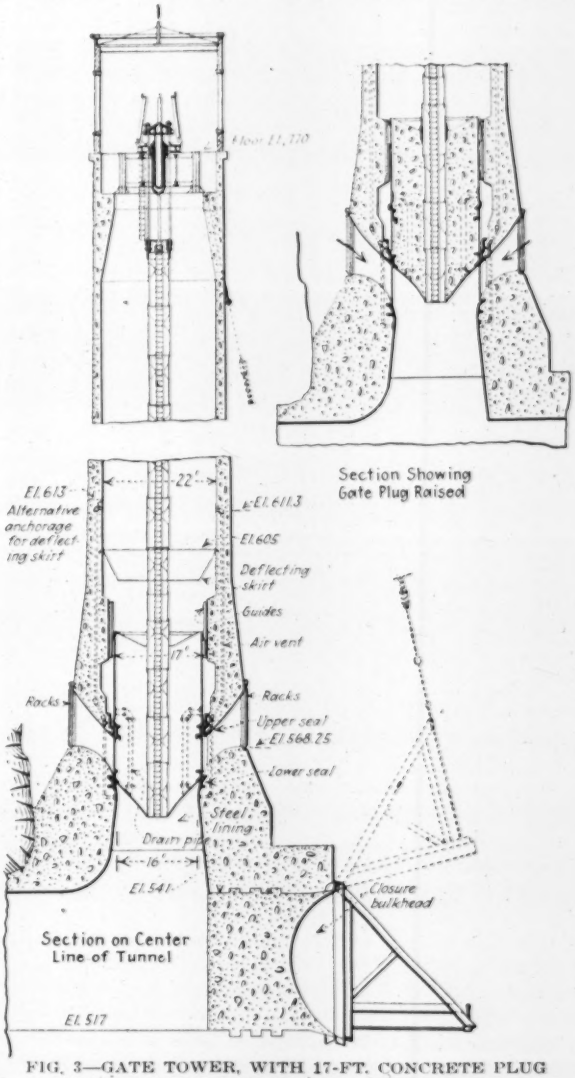


FIG. 3—GATE TOWER, WITH 17-FT. CONCRETE PLUG VALVE AND HEMISPHERICAL FLOOD GATE FOR TUNNEL CLOSURE

concrete itself, and that it will form the first line of defense against seepage through the facing slab.

Each rectangle of the slab was poured continuously, as it was desired to have no construction joints except at the expansion joints.

Spillway—Ample spillway capacity was known to be vital. By locating the spillway in a rock cut through the hill on one side of the dam, and by utilizing the spillway excavation as the main material supply for the body of the dam, a very great spillway capacity

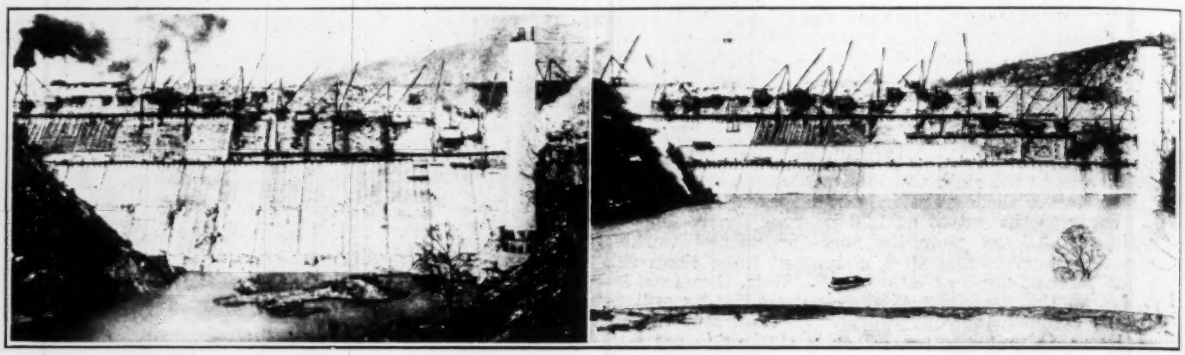
resulted. The channel has a capacity of 200,000 sec.-ft. or about 500 sec.-ft. per square mile of the drainage area (412 square miles), which is equal to a runoff rate of 18.75 in. depth per day from the entire drainage area. The maximum recorded flood of the Dix River within a record period of 13 years, however, is only about 28,000 sec.-ft., or 70 sec.-ft. per square mile.

Grouting—Three-inch grout holes of varying depths were drilled through the cutoff wall. The first series, Series A, were drilled 40 ft. apart, each hole being tested with water pressure and then grouted as soon as drilled. These first holes were drilled about 200 to 250 ft. deep, and the tests on them were used as a guide in determining the depths of subsequent holes. The second, or B, series, were drilled midway between the A holes; the C series midway between A and B, and the D series where needed midway between the B and C. The holes showed non-cavernous, fairly solid rock, containing occasional seams as in any rock foundation.

Outlet Tunnel and Tower—A tunnel through the side hill served for stream diversion during construction and will be used in part as a pressure tunnel to supply the turbines. The size was determined by the flood to be passed. Its section is 24x24 ft., horseshoe shaped, with unreinforced concrete lining; the high rock cover, nowhere less than 100 ft., was considered sufficient assurance against fracture and leakage of the lining.

To provide for control of the supply to the turbines, an intake tower is built over the concrete prolongation of the tunnel above the upstream face of the cliff; the concrete base of the tower is extended far enough upstream to provide for a portal, bulkhead, and permanent concrete sealing plug of the diversion, the intake shaft through the tower entering the tunnel just below the closure plug. The tower is a circular reinforced-concrete structure 22 ft. in diameter inside, but reduced to 17 ft. at the plug-valve seat near the base. Here a series of 12 ports is provided to admit water from the outside, passing downward to the 17-ft. shaft, arranged to be controlled by a huge concrete plug valve. The construction is clearly shown in Fig. 3. The plug of the valve is 17 ft. in diameter by 30 ft. high, and consists of a steel shell used as form, cast semi-steel sealing rings and seat rings, and a concrete filling. It moves vertically in a clearance of $\frac{1}{16}$ in. in the tower opening, comes to bearing on a 45-deg. seat at the bottom of the intake ports, and is simultaneously sealed by a compressible seal at the top of the ports. The plug weighs 575 tons, and is proportioned to resist a possible upward reaction of 480 tons, when the intake tower is used to full capacity for exhausting flood waters into the tunnel with full reservoir, under which condition the gate would pass about 16,000 sec.-ft., with a discharge through the ports at a velocity of 80 ft. per second.

Support is provided for the plug by a tubular stem consisting of a steel-plate pipe $\frac{3}{8}$ in. in shell thickness, 4 ft. in diameter, extending from the top of the tower down through the plug, and serving not only as stem but also as manhole and air vent to the tunnel. At the top, this stem is engaged by an oil pressure hoist, supplied by a motor-driven pump giving a normal pressure of 3,700 lb. per sq.in., which can lift the plug at the rate of 2 in. per minute (total lift, 76 in.). A small filling valve is also operated from the room at the top of the tower. A suspension bridge gives access to the tower.



FIGS. 4 AND 5—RESERVOIR BEHIND DIX DAM ON DAY OF CLOSURE (MARCH 17) AND TEN DAYS LATER

Exhausting the flood water through the gate tower was provided for as a safeguard in connection with the plan to begin impounding water in the reservoir before completion of the dam. The low flow of the river would otherwise result in considerable loss of time between completion of the dam and actual delivery of power from the plant. When the construction of the dam is so far advanced that the necessity for flood discharge through the intake tower has passed, three 8-ft. penstocks will be installed in the lower end of the tunnel, extending about 100 ft. in from the portal, where they will be bedded in a concrete plug about 35 ft. long.

Closure of Diversion—It was originally planned to close the diversion in a period of low water. The plan was to build a pipe some 6 ft. in diameter into the upper end of the diversion tunnel, with valves at the ends for closing the diversion at the desired time. The pipe would subsequently have been grouted full. This plan had to be abandoned when it became evident, last summer, that closure could not be made before the advent of winter floods, and that it would be necessary to make the closure during the high-water season. This required the development of a method of closure which could be carried out under a large flow through the undiminished portal of the tunnel.

At the same time, it seemed desirable to make some provision for reopening the closure bulkhead or valve later on, in case extreme flood conditions should so far exceed the discharge capacity of the ports in the intake tower that the rising water in the reservoir would threaten to overtop the uncompleted dam.

Fig. 3 indicates the method adopted. A closing bulkhead consisting of a hemispherical flood gate 26 ft. in

diameter at the seat was designed and built. This flood gate, consisting of a cast-steel sectional rim to which was riveted a plate-steel hemisphere, concave upstream, was hinged at its upper side. It was designed to withstand the entire head of water (225 ft.) over the center line of the bulkhead, or a load of about 4,000 tons. A frame serving as handle or lever was built against the upstream face of the valve, with its arm projecting from the lower edge of the valve at right angles to its face. The valve was held up and subsequently lowered by means of a hoist rope attached to the outer end of this lever, which made it possible to keep the valve under control and prevent its slamming to its seat in closing.

For emergency reopening on a 20-ft. diameter circle in the hemispherical plate body there is provided a circumferential double-butt-strap joint, having built into it between the butt straps a ½-in. copper tube. This tube extends out and upward to the top of the adjoining hill; after closure of the valve, the tube could at any time have been filled with nitroglycerine and the central part of the valve shot out, reopening the diversion tunnel for flood discharge. However, on March 17, 1925, the plug valve was lowered to closure, and storage in the reservoir began. Within the following month, and the passing of the early part of the flood season without extreme river stages, the emergency which dictated the reopening provision passed by, so that the feasibility of reopening the diversion tunnel will not have to be demonstrated by practical trial. The tunnel will soon be filled with concrete back of the flood gate, to form a permanent concrete closure plug about 20 ft. long.

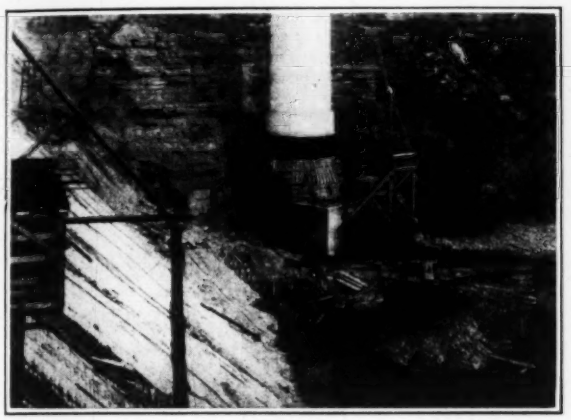


FIG. 6—CLOSURE GATE READY TO BE DROPPED

Drawings accompanying the article of George P. Howson on the construction of the dam in our issue of April 2, p. 548, may be consulted in connection with those shown here. The methods of transporting and placing the rock of the dam fill and the stone and concrete upstream facing were also shown in that article.

The dam was built for the Kentucky Hydro-Electric Co. by the L. E. Myers Co., of Chicago, E. Collins, vice-president and general manager, and A. L. Nelson, superintendent on the work. Mr. Harza had the consulting assistance of Arthur P. Davis, chief engineer of the Bay County's water district and M. M. O'Shaughnessy, city engineer of San Francisco, who approved the design of the dam. Mr. O'Shaughnessy was responsible for the adoption of horizontal expansion joints in the concrete facing. George W. Howson was resident engineer on the work.

Much Road Improvement Under Way in Allegheny County

ROAD improvement aggregating 160 miles is planned by Allegheny County, Pennsylvania. Of the entire program about 100 miles will probably be completed this year. The ultimate cost of the work will be $8,000,000.

Money for this large improvement program was made available a year ago, when the voters of the county approved a bond issue of 29 million dollars for public improvements, of which 8 millions was allotted to road improvement as follows:

Construction of new county highways	$4,050,000
Reconstruction and widening of existing roads	1,162,000
Joint road improvements with boroughs and townships	1,088,000
Elimination of railroad grade crossings	800,000
Elimination and improvement of dangerous curves	500,000
Erection of safety barriers on public highways	400,000
	$8,000,000

The expenditure of these funds is in the hands of the board of county commissioners, through its department of public works. J. G. Armstrong is chairman of the Board. Norman F. Brown is director and Charles M. Reppert assistant director of the department.

The location of new roads in Allegheny County is recommended by the County Planning Commission, which consists of nine men residing in different sections of the county who serve without compensation, and which weighs both the practical and theoretical elements that affect the selection of road locations. A group of thirty engineers, under the leadership of E. L. Schmidt, which makes surveys and estimates of proposed new roads, furnishes the commission the technical data on the project. In addition, public hearings are held before the commission so that all groups of citizens interested in particular roads may express their views on the subject.

The commission also has had prepared a major road plan of the county, which represents the results of a comprehensive, high-plane viewpoint on the road system as a mechanism of communication and circulation of traffic, both as it exists today and as it is destined to exist in the future. With these data as a background; with the technical data on grades, alignments and costs submitted by the engineers, and with the intensely practical views and information developed in the public hearings, the commission is in a position to make well-balanced recommendations to the County Commissioners for priority consideration and final approval.

Included in the 160-mile program mentioned are new roads, reconstruction and widening of existing roads, curve and railroad grade crossing eliminations and state highway projects; also about 65 miles of road surfacing, which will be carried out by the road maintenance division of the Department of Public Works of the county.

Federal Aid for Drainage to Be Requested

Under a bill signed recently by Governor Baker, of Missouri, it is planned to request Congress to pass an act permitting the Department of the Interior to take part in the reclamation by levees and drainage of about 3,000,000 acres of swamp land in the southeastern part of the state. A commission to be appointed by the governor and to co-operate with an Arkansas commission and federal officials will study the flood conditions.

Wood-Grating in Filters and Cemented-Gravel Layer

Symposium by Five Engineers Giving Facts and Opinions Based on Experience and Observation at Various Test and Working Scale Plants

Corroborates Some Doubts Raised by Milwaukee Experiments

By J. W. Ellms
Engineer of Water Purification and Sewage Disposal, Cleveland, Ohio

THE conditions affecting the hydraulics of rapid-sand filter-underdrain systems are always of interest to engineers, and H. N. Jenks' paper on the wood-grating underdrains of the Sacramento filter plant in *Engineering News-Record*, April 16, 1925, p. 634, is a valuable contribution on this subject. The writer can claim only a little experience with this type of underdrains, but such as he has had leads him to believe that the statement made in the Report of the Experiments on the Purification of the Water Supply of Milwaukee by him was practically correct.

The experimental filter used at Milwaukee had an area of about 22 sq.ft. The space under the grid was 6½ in. deep. Into this space the wash-water was discharged through a 4-in. pipe with a tee on the end of the pipe. The effect of the tee was to shoot the water horizontally toward the sides of the chamber. The grid consisted of 1x6-in. boards set on edge and spaced 1 in. apart. The open area of the system was, therefore, 50 per cent of the total sand area.

It was unfortunate that a rate of wash had to be used that did not go above a vertical rise of 21 in. per minute at the beginning of the wash, and which often fell as low as 16 in. per minute toward the end of the wash. Nevertheless, the sand bed was always floated and good washing effects were obtained. The conclusions drawn from the operation of this type of underdrain system as stated in the report are as follows:

"In spite of the absence of trouble with this form of strainer, it is believed that had there been available a wash-water pressure which was capable of producing an upward velocity of 2 to 2.5 ft. per minute, the bed might have been "blown up" and ruined. What has not been established is the necessary depth of the gravel layer below the sand which will prevent a hole being blown through the gravel, thereby disrupting the bed. If high velocities through the gravel can be properly controlled by a sufficient depth and by proper grading of the gravel, it is believed that the grid will furnish a comparatively cheap, simple and effective type of strainer. Further experiments for the purpose of establishing the truth or falsity of the points noted above are necessary before it could be safely adopted for use in a large plant."

Mr. Jenks' experience with large filter units corroborates in a measure the doubts raised in the foregoing conclusion. It also to some extent confirms the disastrous results obtained in the first attempt to wash the large 12-m.g.d. filter units of the Louisville, Ky., plant as first designed and constructed. (See *Engineering Record*, Jan. 5 and 19, 1901, for original design, and June 1, 1912, p. 592, for the reconstruction.) In these filters the underdrain system consisted of two layers of wire cloth laid one above the other. Just what the area of openings was as compared with the total sand area of the filter bed is not known by the writer, but it must have been quite large.

There is little doubt in the writer's mind that air and water combined in the Sacramento filters would produce the violent eruptive effects described, and that the stratification of the gravel layers would be ruined as a result. Once these layers of gravel have been moved, it must produce wide variations in the frictional resistance offered by the gravel and sand, and consequent disruptions of the bed at points of least resistance.

It would appear to the writer that unless very low velocities are produced in the main channel before entering the separate water ways, and that, unless even in the latter the velocity head is negligible, uneven washing must result. Assuming that a minimum of velocity is effected throughout the space underneath the entire grid system, inequalities of flow must result the moment the water begins to pass up through the gravel and sand. Points of least resistance will thus become the channels of greatest flow.

The use of a cemented-gravel layer, even if reinforced to withstand pressure inequalities, seems to the writer to be seeking for a solution of the problem in the wrong direction. The easiest place to control the velocity head is in the strainer system and not in the gravel layer. A gravel layer only 13 in. in depth in the Sacramento filters seems to the writer far too shallow when using a grid system. Even with a perforated-pipe system, it is the writer's practice to use from 18 to 21 in. of gravel. The lower layers should be of fairly large size with a fairly uniform grading upward to the finer gravel at the top.

Without doubt a delicate hydraulic equilibrium must be established in the grid type of strainer system, if it is going to operate successfully. The question in the writer's mind is, whether the means necessary to establish such an equilibrium in design, and the exigencies that arise from improper operation of such a system are worth the effort, when other types of strainer systems have proved their efficiency and practicability.

* * *

Metal Distributors More Dependable Than Gravel

By Wellington Donaldson
With Fuller & McClintock, Consulting Engineers, New York City

THE departure of Baltimore and Sacramento from the conventional type of filter underdrain in general use during the preceding decade has been followed with much interest by those having to do with filter design and operation. This interest has been friendly instead of hostile because the new style of underdrain, if successful, has clearly outstanding advantages in the way of simplicity, ease of installation and construction cost. It would mean that the construction of filter underdrains would be taken away from the foundry and machine shop and given over to the carpenter.

While waiting for the results of a practical trial of the new underdrain, such as has been made available by Mr. Jenks, doubt has been expressed from various quarters as to the wisdom of discarding the older method of distributing wash-water by means of orifices in metal pipes or strainers and relying upon the comparatively light resistance of a carefully graded gravel bed to secure uniform distribution of the wash-water. It was felt by some that even if the carefully graded gravel bed could be built so as to give a uniform distribution, the later development of areas or passages of less resistance than afforded by the bed as a whole would result in a cumulative tendency of the wash-water to pass more readily through certain portions of the bed than others. Such views were expressed by Ellms, Daily and Metcalf in a discussion of the Baltimore experiences in *Engineering News-Record*, April 3, 1924, p. 563. The writer shares these views and believes that "metal" distribution is more dependable than "gravel" distribution. The gravel layer was first incorporated in filter design simply as a trap against sand entering the underdrains. Subsequent additions of graded layers of coarse gravel were for the purpose of combatting jet action incident to the use of larger orifices than the old strainers had. Apparently little consideration in this development was given to the possible function of the gravel as a wash-water distributing device.

One underlying reason in the writer's mind for favoring "metal" distribution has been the observed behavior of a number of filter installations embracing various types of underdrains. In the case of the once popular underdrain consisting of brass strainers screwed into the tops of iron lateral pipes there was a well recognized tendency of the end strainers to become progressively clogged resulting in unequal wash with its various attendant ills, such as banking of sand, dead areas and deep cracks. Even with the more modern type, consisting of perforated pipe or of strainers in a false bottom, it requires stoppage of only a few adjacent holes or strainers to produce poorly washed areas in the sand bed in spite of an adequate gravel layer and a comparatively high-velocity wash.

The Sacramento experience with wooden underdrains, as related by Mr. Jenks, seem to support the fears above expressed as to what might be expected in the absence of orifice distribution. The results are covered very well in his term "hydraulic instability," due to the slight resistance of the gravel layer. If, in order to make up for the shortcomings of this arrangement, it becomes necessary to install a different kind of orifice device consisting of a thick layer of loosely cemented gravel, and if further it becomes necessary to reinforce this layer with steel rods in order to secure it from failure as a slab, then this type of underdrain loses its principal attractiveness, which is simplicity and low cost. It is in a way attempting to do something which can with more certainty and reliability be done by multiple orifices of definite size in metal and definitely spaced over the bed area.

If porous slabs of cemented gravel are to be used it would seem more logical to anchor these slabs directly over the supporting false bottom and use over the gravel slab only a shallow layer of finer gravel as a trap against clogging by sand. An objection to the cemented-gravel layer yet to be answered is the possibility of its becoming clogged and the inability to overhaul without complete destruction and replacement of the slab.

Why is a very low resistance in the underdrain system especially to be desired? The additional head required to give orifice distribution is at most only a few feet, which is not sufficient seriously to modify provisions for supplying wash-water even when this water has to be pumped. Would the wash-water tank have to be materially elevated or would the additional head against which the wash-water is pumped constitute a serious item of operating expense?

In regard to the troubles from air entrainment mentioned by Mr. Jenks, it is not easy to see that these are related particularly to the type of underdrain discussed except that a false bottom provides more space for accumulation of air than is the case with underdrains of perforated pipe. In other words, air entrainment is due either to release of dissolved air under tension of the negative head or else to being drawn in through some opening or pipe connection under negative head. Air entrainment is undesirable in any type of filter and is to be combatted at the source rather than by modification of the underdrain.

A fair interpretation of the Sacramento experience is, that while these particular experiments have not been favorable to the type of underdrain discussed, the feasibility of the idea is not necessarily disproved. Nevertheless they indicate what may be expected unless an exceptionally well-graded gravel layer is secured, and unless the inlet arrangements for wash-water are provided in a manner conducive to uniform pressure under the false bottom. The difficulties of meeting these conditions are indicated in Mr. Jenks' statement that such small differences in head as 2 in. between ends of the distributing conduit have given rise to inequalities of wash.

We must remember that the Baltimore experiments with this type of bottom have been carried on for a considerable period with results at variance with those reported at Sacramento. For a correct judgment in this matter we need recent Baltimore observations presented in the light of the Sacramento experiences, so interestingly related by Mr. Jenks.

[Recent information from Baltimore indicates that the one filter equipped with wood-grating is operating as satisfactorily as the remaining filters, as noted in the adjoining discussion by James W. Armstrong.—EDITOR.]

Baltimore Experience With Slat Bottom Type Satisfactory

By James W. Armstrong
Filtration Engineer at Montebello Filters, Baltimore, Md.

I HAVE more than a passing interest in Mr. Jenks' account of the troubles with the slat-bottom filters at Sacramento, especially as I feel that the remedy is much simpler than the one he has suggested. Mr. Jenks stated that 13 in. of gravel and 34 in. of sand were used, but he did not tell how the gravel was graded. On looking up the Sacramento contract plans and specifications, which I presume were followed literally as Mr. Jenks' other figures agreed with them, I notice that in the four filters with the slat bottoms the gravel was 5 in. less in depth than in the filters where the perforated-pipe laterals were used. The specifications call for the following:

Layer	Screen Diameter or Opening, Inches		Depth of Gravel Layers in Filters 2-4-6-8 Slat Bottom	Depth of Gravel Layers in Filters 1-3-5-7 Perforated Pipe
	Passing	Retained Upon		
First, bottom	2½	1½	3 in.	6 in.
Second	1½	¾	3 in.	4 in.
Third	¾	¼	3 in.	4 in.
Fourth, top	¼	10 Mesh per in. No. 20 Wire	4 in.	4 in.

It will be noted that only a 13-in. depth of gravel was placed in the slat-bottom filters, where the gravel layer alone is relied upon for distributing the wash-water, and that a depth of 18 in. of gravel was placed in the filters with the perforated-pipe laterals, where the wash-water is evenly distributed before reaching the gravel layer. As the top 4 in. of gravel can only be considered as a coarse sand for supporting the finer sand, it only leaves a 9-in. depth of gravel to act as an effective medium of distributing the wash-water, a depth in my judgment not sufficient for the purpose.

I believe that the thin gravel layer in the slat-bottom filters at Sacramento is sufficient explanation of their trouble, and that if the depth of gravel in the two types of filters had been reversed, there might have been no trouble.

One other factor might have entered in slightly. The wash-water is admitted through four 5-in. holes into a narrow and shallow compartment at a velocity of a little over 3 ft. per second, when applied at a rate of 2 ft. vertical rise per minute. This rate would tend to decrease the pressure at the inlet and increase it at the opposite side where the water impinges against the wall. I believe that with a proper depth and grading of gravel there would be no necessity for a cemented-gravel layer as suggested by Mr. Jenks.

It may be of interest to those concerned with the design of filter-strainer systems to review briefly the history of the slat-bottom filters, as far as I am acquainted with it. In the latter part of September, 1918, I visited J. W. Ellms at Cleveland, Ohio, who was at that time about to start an experimental filter plant at Milwaukee. I asked him if he would be willing to equip one of his small experimental filters with slat bottoms and made him a sketch of the way I thought the installation should be made. He said he did not think very much of the idea but would be willing to try it, and he did. His second filter was of the perforated-pipe type.

In the report of the Milwaukee experiments, which appeared a little more than a year afterward, there was practically no difference in the performance of the two types of filters, but on p. 47 Mr. Ellms summed up his conclusions on the operation of experimental filters as follows:

"The wooden-grid strainer system also gave good results. Toward the end of the work an examination was made of the filtered-water well immediately under the grid in order to see whether sand had worked its way down through the gravel bed. None was found. Examination from above showed the gravel bed to be in good shape also. In spite of the absence of trouble with this form of strainer, it is believed that had there been available a wash-water pressure which was capable of producing an upward velocity of 2 to 2.5 ft. per minute, the bed might have been 'blown up' and ruined. What has not been established, is the

necessary depth of the gravel layer below the sand which will prevent a hole being blown through the gravel, and, thereby, disrupt the bed. If high velocities through the gravel can be properly controlled by a sufficient depth and by proper grading of the gravel, it is believed that the grid will furnish a comparatively cheap, simple and effective type of strainer. Further experiments for the purpose of establishing the truth or falsity of the points noted above are necessary before it could be safely adopted for use in a large plant."

I should not have requested Mr. Ellms to make the experiment in 1918, except for the fact that the city of Baltimore at that particular time was using a large volume of water, and we did not think it advisable to dismantle one of our filters for experimental purposes. As I was not satisfied with Mr. Ellms' report, we decided to use one of our existing filters for the purpose of giving the matter a thorough test. We cut off half of Filter 12 and after removing the strainer plates from the other half, equipped it with wooden slats. The portion equipped had a length of 53½ ft. and a width of 13½ ft. We put about 18 in. of well-graded gravel on top of the slats but on account of the height required for the slats and the extra depth of gravel, it was not possible to use more than 1 ft. of sand.

Wash-water was admitted through four 14-in. pipes, a deflector being placed over the outlet of each pipe. The deflectors were not wide enough to prevent a large volume of water from escaping directly upward against the slats. After placing the gravel, but before placing the sand, wash-water was applied at a rate of 5 ft. vertical rise per minute without disturbing the gravel layer. Afterward air was admitted to the wash-water pipe and underdrains, the tanks were filled with water and then the 24-in. wash-water valve was opened wide. A violent agitation of the filter surface occurred, especially over the inlets where the water rose to a height of about a foot above the surrounding water.

During the year 1923 we were troubled with the growth of organic matter on the sand grains which matted them together to such an extent that it was not possible to pass wash-water through a large area of the filter bed. At the points where the water did break through, it was at an excessively high rate. During this trying period, we had no evidence of the disturbance of the gravel or sand layer of Filter 12. Ultimately we got rid of this trouble by passing the sand through an ejector and sand-washing machine.

In 1924 a new trouble came upon us in the form of a large amount of dissolved air in the water, which was liberated in the sand beds and underdrains as in the case of Sacramento. There was no trouble due to a disturbance of either the gravel or the sand beds. These facts seem to strengthen my belief that the trouble at Sacramento is due to the causes previously stated.

I understand that St. Paul, Minn., built some filters with slat bottoms, but I have no knowledge as to the details of construction or the results of operation. In addition to the filters of this type now being built at Baltimore, a large plant is under construction for Washington, D. C., and the Baltimore & Ohio R.R. Co. recently awarded a contract for a small plant.

After four years of practical operation, part of the time under trying conditions and with only 1 ft. of sand above the gravel and with some undesirable structural features to contend with, we have every reason to believe that filters of the slat-bottom type are a thorough success and should no longer be considered as experimental.

* * *

Iron Ridge Block Diffusers and Wood Grating Used at St. Paul

By John W. Kelsey
General Superintendent of Water-works, St. Paul, Minn.

I HAVE read with considerable interest Mr. Armstrong's criticism of the wood grating in the Sacramento filters. At St. Paul iron ridge blocks spaced on 7-ft. centers are used to diffuse the wash-water; that is, the water through the underdrain system comes into contact with the cast-iron ridge blocks through 4-in. risers and then is diffused through ¾-in. horizontal holes in the cast-iron diffusers. The wood grating is of standard size, 1 x 6-in. fir boards, surfaced on all sides. These wood slats are set on edge and give a clear space between them equal to their thickness, which is a little under ⅞ in. In supporting them on the cast-iron diffusers, the grating boards are butted and not lapped. Our theory was that this would permit the water under the gravel to have plenty of areaway to assume a uniform pressure. The resistance that the water meets in passing through the gravel equalizes the pressure at all points beneath it, which we believed would give a uniform wash.

The gravel is 16 in. thick and the sand 27 in. The gravel is graded from ⅛ in. to 2 in. Each filter bed has a rated capacity based on 125 m.g.d. per acre of 3,500,000 gal. These filters, twelve in number, were put into service May 16, 1923. They have proved satisfactory and have been inspected by various engineers and filter operators from other cities, who endorse them as giving a uniform and satisfactory wash, with a rate of wash of 2 ft. vertical rise per minute. We have had no occasion to remove the sand or gravel and, therefore, have not been in position to inspect the condition of the filters or underdrain systems. Perhaps it would have been better to have used cypress instead of fir, but the cost was a great deal more. To date we have had absolutely no trouble in any way with the filters, and are, therefore, well pleased with the design.

This plant was designed by myself and L. N. Thompson, senior assistant engineer.

* * *

Cemented Gravel Slabs Satisfactory at Toronto and Elsewhere

By William Gore
Consulting Engineer, Toronto, Ont.

OPEN-BOTTOMED filters of which the wood grating, as described by Harry N. Jenks in *Engineering News-Record*, is a type, have never been adopted in the writer's practice, although its possibilities have been discussed from time to time, perhaps every time when cemented-gravel underdrains have been under consideration. To what extent the cemented gravel in practice would do away with the orifice restrictions we do not know but we have never had the courage to launch out without these restrictions. With drifting-sand filters, using loose gravel covering perforated-pipe underdrains, it was found that the gravel crept up the corners and sides of the filters and interfered with the working of the sand extractors, so that the adoption of cemented gravel by us came as a necessity and its success was such that we now use it in all mechanical filters combined with perforated pipes.

Cemented gravel in the form of slabs over channels forming the underdrain system of slow sand filters was in use many years ago at the works of the Companie General Des Eaux at Choisy le Roi, Paris, France, and the writer experimented at these works with the cemented gravel in a mechanical filter with perfectly satisfactory results. About eight years ago the same system was adopted at Ottawa, Ontario, and shortly after by Toronto and other places. In only one case, which was in South America, has the cemented gravel bed been known to be broken and this was under circumstances which appeared to indicate jolting of the filter, a process which cannot be too strongly deprecated.

An examination, recently, of a cemented gravel bed at Toronto disclosed the unexpected fact that the cement was being slowly dissolved by the water so that the bed, although sound, was more open than when placed, six years earlier. In this case limestone, amidst the more durable materials, may have contributed to the result. Our early fear was that the cemented gravel might tend to choke but experience shows that the reverse is the case. In the early examples the proportion of cement to gravel was 1 to 15 but this has now been increased to 1 to 12 and we have no fear now with higher proportions of cement.

The gravel used has been of clean, rounded pebbles which have passed through a sieve of three meshes, lineal, per inch and has been caught on one with five meshes per inch. After mixing in a machine with sufficient water to compact it, this mixture has been placed in a firmly rammed layer, 6 in. thick in one piece over the whole surface of the filter or filter compartment. The top is rammed but not rubbed. It is left with a relatively smooth, mottled

surface which, after setting, can be swept with a broom without injury. The cemented gravel rests upon a layer of loose gravel covering the perforated-pipe underdrains and is covered with 2 in. of coarse sand, caught on a sieve of 16 meshes per inch. Experience shows that this coarse layer of sand is an essential element in the design. It remains in place and the cemented gravel remains relatively free from the materials which choke up the upper layers of the sand bed.

In backwashing, whether with loose or cemented gravel, it is our practice to start very slowly, gradually increasing to full rate at about one-half the period of washing, then continue at this maximum rate—which is secured by a stopped gate—till the water in the filter begins to clear, when the rate is gently lowered to zero.

This arrangement has been found to be simple and entirely satisfactory. It was determined in the first instance by experiments on a filter with glass sides. The motions in sand while being backwashed are exceedingly complicated and must be seen to be fully appreciated. There are local uprushes of sand and water rapidly changing in form and place accompanied by slower and more widespread settlements. Horizontal zoning takes place with different grades of sand in each zone.

The trouble Mr. Jenks experienced from gas is not an uncommon one. It appears to accompany filtration when the raw water is saturated or nearly so. The gas is then withdrawn from the water by adsorption in the same way as colloidal materials are also withdrawn. If water has just been released from pressure the trouble is usually augmented. This phenomenon has also been studied in glass filters and it is found that the whole bed may become full of dry spots without the presence of negative head, and the bubbles rise from all depths of the filter as well as from the underdrains. We know of no method of stopping the trouble except more frequent backwashing.

Railway Trestle Practice in Queensland

Special Correspondence

A TYPICAL railway trestle used on the 3 ft. 6 in. government railways of Queensland, Australia, is shown by the adjoining view. It is built of eucalyptus, a hardwood abundant in Australia in many varieties. The eucalyptus furnish strong and lasting bridge timber for bridges. In calculating the moment of resistance of girders, a working unit stress of 2,800 lb. per sq.in. may safely be used.

Bridges such as the one pictured will stand for twelve years without giving the maintenance branch any anxiety, and the writer has dismantled similar bridges 35 years old that showed little trace of decay. These figures do not apply indiscriminately to all the eucalyptus, nor to all districts in Australia.

The track construction of the bridge shown consists of rails spiked direct to 9x4½-in. hewn ties or "transoms," 7 ft. 6 in. long, which are close-spaced and are in turn spiked to the 17-in. round dressed girders.

For spans of 12 and 14 ft. c. to c. of bents two girders are provided. As the girders are 5 ft. 6 in. apart, and the gage of the road is 3 ft. 6 in., the transoms are subjected to a bending moment, whose maximum is under the rail at a cross-section weakened by 2¾-in. holes for dogspikes. For spans of 16 and 18 ft. a third (central) girder is provided. Longer spans (when used) have girders doubled vertically.

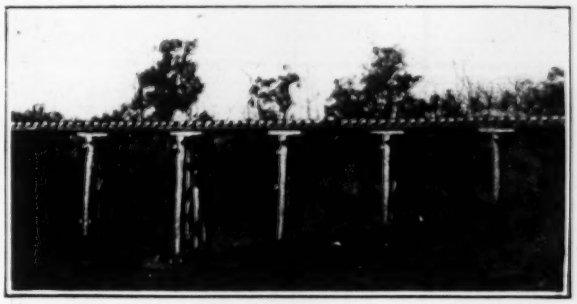
The corbels shown over the bents, under the butt-joints of the girders, are an interesting survival of the days when strength of girders could not be calculated. The writer has been informed that they are intended to lessen the span and to lessen deflection.

The bents are generally of three piles each, outside piles raked 1 in 8, but the highest shown has four. The cap consists of two 9x6-in. hewn pieces 10 ft. long, bolted heart to heart, and mortised to receive tenons cut on the heads of the piles. The bridge is liberally supplied with holding-down bolts.

Piles are driven when circumstances permit, but are generally silled at a depth of 10 ft. The sill is an enormous timber, of least diameter 17 in. and of length equal to 10 ft. plus one-fourth height from sill to cap, and it rests on 6 in. of 1:9 concrete and is embedded in it. The outside piles are further bolted down to the sills.

The large amount of holding down is judged necessary on account of the sporadic heavy rainfall to which most Queensland waterways are subject. In the morning, after a fall of 3 or 4 in. during the night (no unusual occurrence), bridges are found with debris piled sometimes over the rails, while the stream may be nearly dry again.

Bridges of the type shown are presumed to be designed to carry an engine of 58½ tons weight, distributed thus: 12,880 lb. (5 ft. 10 in.), 12,880 lb. (4 ft. 5 in.), 26,880



TRESTLE ON GOVERNMENT NARROW-GAGE RAILWAY, QUEENSLAND, AUSTRALIA

lb. (5 ft.), 26,880 lb. (5 ft.), 26,880 lb. (4 ft. 3 in.), 12,320 lb. (5 ft.) 12,320 lb. The writer has no taste for calculations which can be avoided, but some younger engineers might find an interest in investigating such questions as the strength of the transoms in two- and three-girder bridges, the relative strengths of transoms and girders, the effect of the corbels when the bolts securing them to the girders have not been screwed up for three dry years, and the unit pressure under footings. The weight of the timber may be taken at 65 lb. per cu.ft.

The cost of these structures varies in different localities, but average costs are:

Hewn transoms, braces, etc.	$1.80 per cu.ft.
Girders and corbels	1.68 per lin.ft.
Piles	1.26 per lin.ft.
Sills	1.38 per lin.ft.
Concrete for sills, 1:3:6	17.28 per cu.yd.
Wrought iron	0.14 per lb.

Parts of the structure are painted with a fifty-fifty mixture of white lead and white zinc, and part with red oxide paint, at a cost of 48c. per sq.yd., three coats.

Since 1917, all railway construction work has been carried out exclusively by day labor under the government's own engineers. A cumbersome and costly system has been built up, under which the engineers have practicaly no control of the labor employed. All rates of wages are determined by a bewigged judge of an Arbitration Court, and many "disputes" such as arise when the engineer's directions do not meet with the approval of the gangs are solemnly investigated by an Industrial Magistrate. This sounds like comic opera or Munchausenisms, but it all is what Mark Twain once described as "the frozen truth."

Engineering in the Small City

A series of notes from the field on the Problems and Practices of the Municipal Engineer in the Cities Below 100,000

The Editor Visits the City Engineer

Snapshots of Our Representative Small Cities

Cairo, Ill.

LEVEE GATE, CAIRO, ILL.

COUNTY SEAT OF ALEXANDER COUNTY, the southernmost point of Illinois, at the junction of the Ohio and Mississippi Rivers, situated on a low, flat terrain behind levees where the flood waters from 916,700 sq.mi. of upland country flow by. Located at the southern end of the Meridian Highway. Strategic point of a break in freight rate for water and rail. Forwarding point for grain, lumber, cotton and tobacco. Hardwood products are the chief manufacturing interests. Gannister, kaolins, yellow ochre and cementing gravels are a few of the forty natural products of the county. Inhabited since 1750, but chartered as a privately owned enterprise in 1818, it was not a free city with right to govern itself until 1857. From 1818 to 1854 no resident owned a foot of ground. Population 1922, 17,000.

WHEN Charles Dickens visited Cairo and other cities in 1842 on his American trip as secretary to a group of English capitalists he was not particularly complimentary of any city. Going by steamboat from Cincinnati to St. Louis down the Ohio and up the Mississippi he was not much impressed with any of the bank scenery and proclaims in his *American Notes*, "Cairo is a spot so much more desolate than any we had yet beheld, that the forlornest places we had passed were, in comparison with it, full of interest." Perhaps the lamentations of the bankers he was accompanying whose money had been sunk in the promotion of this privately owned enterprise, a scheme enriching the promoters only, had an undue influence on Dickens' mind. That was 83 years ago, but Dickens' description of the location and obstacles with which the engineer had to contend is necessary to give proper background for the Cairo of today. Looking at it now we might say that almond-shaped Cairo lies snug between levees like a nut in a curved cracker. But let Dickens picture the location:

"At the junction of the two rivers, on ground so flat and low and marshy that at certain seasons of the year it is inundated to the house-top, lies a breeding-place of fever, ague, and death; vaunted in England as a mine of Golden Hope, and speculated in, on the faith of monstrous representations, to many people's ruin. A dismal swamp, on which the half-built houses rot away; cleared here and there for the space of a few yards; and teeming, then, with rank unwholesome vegetation, in whose baleful shade the wretched wanderers who are tempted hither, droop, and die, and lay their bones; the hateful Mississippi circling and eddying before it, and turning off upon its southern course a slimy monster hideous to behold; a hotbed of disease, an ugly sepulcher, a grave uncheered by any gleam of promise; a place without one single quality, in earth or air or water, to commend it: such is this dismal Cairo."

Was there ever a more tempting problem to solve by the hardy pioneering engineer of that or any other day? So hopeless it seemed, yet George F. Dewey, present incumbent of the city engineer's office, says flood water has not been in the city since 1858, a bare 16 years after Dickens viewed it. Cairo is completely surrounded by levees which also inclose the Cairo Drainage District. A cross levee carrying railroad tracks at the north city limits separates the two areas. An enormous flood gate in this levee was designed and built by Major C. H. Miller, who lost his life in the Memphis boat-disaster. It spans Sycamore St., the only connection to the north between city and district, so that in event of failure of the levee in one the other may be completely shut off.

Cairo's Low Level—Water, low ground, sand boils, seeps and levees are the principal physical features with which all engineers in Cairo from Dickens' day to this have at times had to contend. First of all the levees themselves had to be raised. When the rivers are up, all structures must rest on a water-logged subsurface. Forever must the remover of earth remember upward pressure when either river is high. Excavation or borrow pit—and earth for levees and to mound up places on which to build must be obtained—is almost sure to become a point of weakness where sand boils develop. Sand boils and seeps are the bane of the levee man's existence, breaking out unexpectedly at the height of a flood when nothing effective can be done. Temporarily, fighters sometimes build a ring of sand bags around the boil and raise the water level so that the infiltration will be reduced below a silt-carrying velocity.

Trenching then, for water, sewer or utilities must be handled carefully, carried on only in low-water periods. Backfilling must be done properly. When excavators encounter tree roots, as they often do, hundreds of years old, all the branch roots which have penetrated the water-bearing sand stratum must be removed. Sand puppies like to eat these roots, which would probably not decay under water. They follow the roots down to water where they hibernate in nests, sometimes 10 ft. across, until the next high water.

It is highly essential that the bottom of excavations be mulched or puddled to break up any direct tubular connections to a water-bearing stratum. Luckily plenty of clay of all kinds is available. In fact, fullers earth, potters clay and kaolins rivaling those of Europe and New Jersey have recently been located in the vicinity of Cairo and find a ready market.

While Cairo has not been under water in 67 years the floods of 1912 and 1913 breached the levee of the Drainage District to the north and cut the town off from land communication for many days. Recognizing the danger, more than a million dollars was raised for levee strengthening and repairs. Of this the railroads gave $368,000; the Drainage Board, $175,000; city, $100,000; U. S. government, $250,000, and state of Illinois, $250,000. Prior to this time about $1,500,000 had been expended by all interests combined. Cairo then has a security investment of $2,500,000.

City Engineering—For handling the engineering of this city (except the water-works) one man is responsible, George F. Dewey, city engineer, who has offices above the principal commission house on Ohio St.

overlooking the wide-paved levee slope down to the floating docks on the Ohio River. Beyond are the green hills of Kentucky and in the foreground the concrete levee wall with its ever mindful stop-plank openings. Dewey is master of the situation. He gazes out over the river with love as well as respect and perhaps at times hate. It is a typical surveyor's office with its pigeonholes for the thousand and one plats which are the surveyor's stock in trade. Dewey knows his business and the townspeople respect his knowledge.

Cairo has a commission form of government. D. M. Kelly is the commissioner of streets and public improvements and Dewey is responsible to Kelly but does all the engineering work there is to do under the other commissioners. For instance, Mike Egan, commissioner of public health and safety, called on him for handling the construction of the 10-ton garbage incinerator which as viewed, and smelled, in May was handling its quota without odor or offense. Every other day service is rendered and lately 4 of the 8 tons of coal formerly used annually is saved by feeding more than half of the garbage collected to hogs of farmers. "A fat horse burns itself but it takes a ton of coal for a skinny one and chicken manure is the hardest stuff to burn," are two bits of practical wisdom the superintendent passed out.

Principally, however, Dewey is concerned, as is every other city engineer, with paving and sewer problems. Novaculite, the natural product of southern Illinois which cements well and makes a good macadam road, has the drawbacks of all macadam under motor traffic. It is used extensively in the side streets of Cairo. A 1-in. covering of rock asphalt has been tried with success recently. Brick covers the principal streets, brick on a concrete base. Some of the old brick that has worn uneven has been patched—rather, evened up effectively with the rock asphalt at slightly over $1 per square yard. Rock asphalt costs $11 per ton in Cairo but so many companies are producing it that the prices are responding to the competition.

Sewers—Troubles with pavement, as they are with the sewers, are bound up largely with the seepage water and boils. During the spring flood stages in the rivers everything has to be pumped over the levees. The operation may suck into the sewers the water-logged silt surrounding them until a large cavity results. The sewer drops into the hole and so does the pavement. Again seeps may so soften the subgrade that the foundation gives way. There is no remedy except to excavate down to the sand strata, fill in with a puddle blanket and replace the sewer.

Much difficulty has been encountered from the manner of operating the drainage pumps. No regulators are provided. Suction is lost and water hammer ensues which tends to collapse the sewers.

Sewers now built, over 30 in. in diameter, are of monolithic concrete. Under this size they are usually of clay pipe. Unusual caution must be taken to make tight joints and the foundations now called for are a slab of concrete on piles. Backfilling must be done carefully, either in layers, if by hand, or by flooding, if by machinery, as is the more recent practice. Deep excavations must settle for a year before pavements are laid.

Since the sewage must be pumped, one naturally would feel some unusual interest in the pumps, but Mr. Dewey dismisses them with little comment. Simply motor-driven centrifugals, which are not automatically controlled, or equipped with remote-control apparatus. Attendants in shifts man the five stations. Lately the lines have been carried through the levee bank and down the outside to regain by siphonic action as much head as possible.

Financing, as in all Illinois cities, is done largely under the special assessment laws of the state whereby costs of benefits and injuries are spread over the areas affected.

Floods and Drainage—In 1922 C. E. Smith, consulting engineer, St. Louis, made an exhaustive report on the flood and drainage problems. In it he brings out that the trouble from seepage and boils comes from water totally different in chemical character from the water in either river. The ground water carries about four times as much solids as the river water. But this ground water, though it may come from a gathering ground miles away, still is influenced greatly as to elevation by the get-away possible into the rivers. Hence river heights affect the ground-water levels but there is always a lag of several days.

Some of Mr. Smith's conclusions are pertinent. While no floods have overtopped Cairo's levees in 67 years, levee work downstream may raise levels at Cairo. Simultaneous flood crests from the tributaries of the Missouri, upper Mississippi and Ohio Rivers have never yet combined at Cairo and the probability, in his opinion, is considered too remote to be given thought. Vigilance in protecting the concave banks along both rivers is absolutely vital to Cairo's existence. Filling low areas to prevent inside slopes from sloughing at flood time as a result of seep water standing against the base is recommended. This is being done gradually. Here and there through the town will be seen one lot or a series of lots in the poorer districts 4 ft. lower than the others. Most streets are up to a so-called minimum grade. To fill all areas inside the city will require 3,150,000 cu.yd. and within the Drainage District another 1,250,000 cu.yd. Mr. Smith recommended that the city buy an electrically-operated suction dredge and pump in material from the Ohio River bars at an estimated cost of 15c. per yard. This has not yet been done. The bars are across the river and a pipe line hung on the Illinois Central bridge would carry the material into town.

Like most city engineers, Mr. Dewey is on good terms with bankers and the big men of the city. A knock after hours, on the side door of the main bank in town was successful in bringing his visitors to the inner office of the president who laid aside his balance sheets for the day and spent nearly two hours in outlining the advantages of the city and Alexander County. One of the things he was most proud of was a cabinet containing forty samples of natural products including gannister, kaolin, yellow ochre and cementing sand for road material. Interested in several utilities he detailed the difficulties of the water company which had offered a few years back to finance a new works if a franchise were forthcoming. None was given but, he said, by the help of chlorine, the old filters and a loyal crew, a potable, safe water is being purveyed. Had the problem been left to the banker and Mr. Dewey, the company would have its franchise or the city would take over the plant. So the day was closed and on the Chicago sleeper reflections painted one more city engineer having the time of his life and succeeding not in money

returns but in filling a place in American small-city life, respected by his fellow townsmen and doing the day's work as it came to him.

Formwork for Large Sewers on Short-Radius Curves

By J. C. Keeley
Engineering Department, City of Paducah, Ky.

A CONVENIENT method of building large monolithic concrete sewers on 50-ft. radius curves was used in Paducah, Ky., in the construction of a $650,000 sewer system completed last year. The sewer is in a 96-in. semi-elliptical section built over standard steel forms, each form section being 5 ft. in length. In constructing the invert the chords on the inside of the curve were made 5 ft. in length to conform to the length of the steel arch forms, the chords on the outside being 5.87 ft. in length. Fig. 1 shows a plan of the invert.

After building the invert for the full length of the curve, the arch forms were unbolted and pulled ahead on a truck provided for this purpose and the forms set up on the curve, the side of each 5-ft. section fitting the inside chord of the invert previously constructed. The form sections were bolted with one or two bolts near the spring line on the inside of the curve and permitted to spread, to accommodate the curvature. After the forms were properly aligned and braced, spacers of wood 2 in. in thickness and of varying length were driven between the sections to keep them apart and to aid in bracing. Sheet metal of triangular shape was then placed over the space between the form sections and tacked down to the wooden spacers. Concrete was then poured.

After sufficient time had elapsed to permit removal, the forms were lowered by means of jacks, mounted on the form truck and the form moved ahead and reassembled on the tangential portion of the sewer. Fig. 1 shows a plan of the arch forms as assembled.

As the centers of the curves were generally inaccessible, the curves were staked out with a transit with chord lengths on the center line such as to give a 5-ft. chord length on the inside of the curve. On a 50-ft. radius curve this center line chord length was 5.43 + ft. The points on the curve were then referenced by means of stakes set radially and at certain offset distances, so that after excavation the points could be set again by the use of a chalk line and tape. Fig. 1 shows the method of staking out the curves.

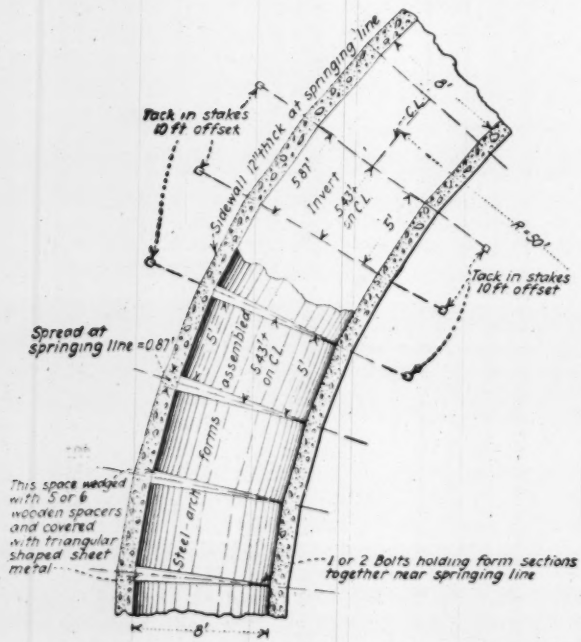


FIG. 1—PLAN OF 96-IN. SEMI-ELLIPTICAL SEWER

Engineering Work

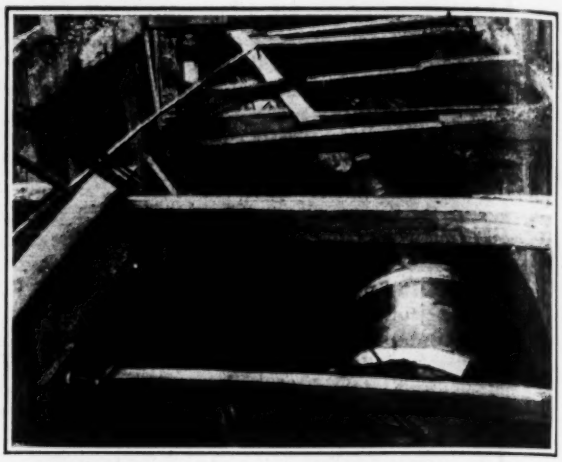
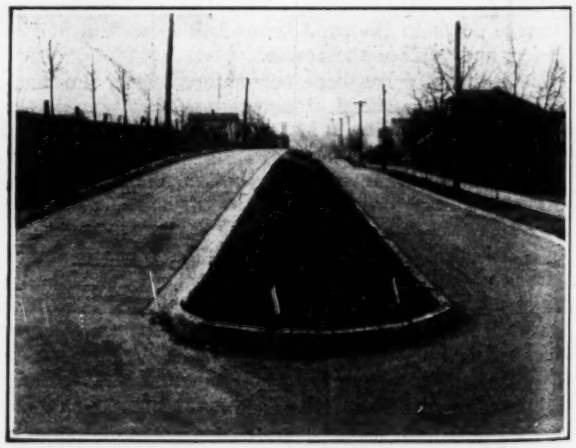


FIG. 2—FORMS IN PLACE ON 50-FT. RADIUS CURVE
The white strips show how triangular sheet metal bridged gap between steel form sections.

Street at Two Levels Serves Sidehill Residence Property

IN LAYING hard surfacing on a section of Denver Ave. from Bellevue to the block overlooking the James River, the city engineering department of Lynchburg, Va., devised a street layout particularly adaptable to sidehill property.

The section of Denver Ave. given this treatment has a difference in elevation between property lines on the two sides of the street from 4 to 12 ft. The street dead ends at the bluff overlooking the James River.



TWO-STRIP PAVEMENT FOR SIDEHILL ST.

Of the Small City

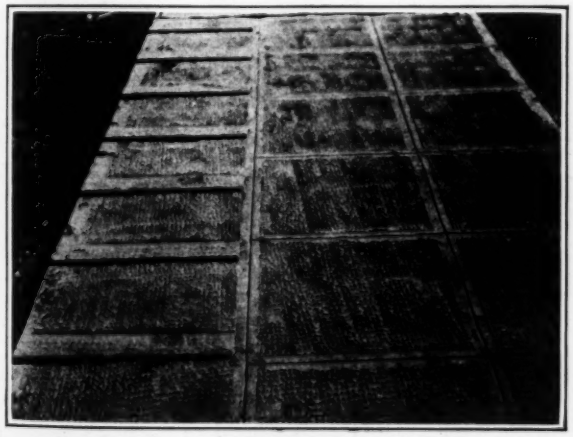
A continuation of the single roadway constructed in the upper section of Denver Ave. would have necessitated a grade line which obviously would be damaging to the property on one side or the other, or possibly both. Therefore, two 12-ft. concrete roadways 475 ft. in length, separated by a 9-ft. wide parkway but connected at each end, were constructed on independent grades. An 18-in. concrete curb and gutter on one side of each pavement slab added virtually that amount to the driveway width. On the upper side granite curbs were placed to support the steep sloping parkway. A short stretch of roadway on a 14 per cent grade was made rough by corrugation of the surface, this as an aid to traffic.

Building Sidewalks to Eliminate Slipperiness and Glare

By William E. Barker
Chicago, Ill.

In *Engineering News-Record* for April 30, 1925, an article appeared describing methods of eliminating glare and slipperiness from concrete walks. For walks which have the nearly obsolete steel trowel finish the acid wash described is effective. There is, however, no reason why new walks should need any such treatment, for they can easily be built with a surface of any desired texture.

The modern concrete walk is usually built in one course, using concrete of the same proportions from top to bottom, instead of having a lean base and a rich mortar top, as was previously the custom. Such a walk is not only stronger than the two-course walk but is also cheaper, because labor costs are less. It was the rich mortar top in the old walk which, when steel troweled, became slippery. The surface of the one-



CONCRETE CLEATS ON STEEP STREETS
Surface roughened by a roller. This street is in Seattle, Wash.

course walk contains more sand and, when a board float is substituted for the steel trowel for finishing, will have a gritty surface which is slip-proof in all weather. This grittiness is increased by using relatively dry concrete and by a final floating after all water has evaporated from the surface.

On steep hills or sharply inclined cross walks the concrete may be further roughened to provide a more secure footing in icy weather. This can best be accomplished by "patting" the surface with a wood float. The blow should not be hard enough to make a depression; the result is secured by lifting the float vertically, so that a little mortar is pulled up by the rising board, to form ridges like the mountain ranges of a miniature

SURFACE ROUGHENED BY PATTING WITH WOOD FLOAT
This is a concrete walk on one of Omaha's steep streets. The pencil shows the size of the elevations.

relief map. On very steep hills concrete cleats may be cast along one edge of the walk for winter walking.

Light reflected from sidewalks is caused by the light color of concrete. Anything which darkens the concrete will reduce the reflection. The first expedient is to keep the walk wet for at least a week after it is laid. Dark colored concrete may be secured by using dark colored aggregate such as red or black sand and stone.

Darker concrete may also be made by the admixture of various pigments. Only mineral colors should be used. Red iron oxide is the most popular. When two or three pounds is used for each sack of cement the concrete walk will have a delicate and pleasing shade of pink. The additional cost for coloring should not be more than one cent per square foot. About the same quantity of manganese oxide will produce a slate gray walk especially adapted to business districts.

Resurfacing Worn-Out Brick Pavements

Referring to an article in *Engineering News-Record*, June 4, p. 932, on the practice of the city of Jamestown, N. Y., in salvaging old brick pavements, Thomas H. Mather, city engineer of Syracuse, N. Y., has the following to say:

"For the past three years, in resurfacing brick pavements, we have adopted the method of grading the regular surface of the brick pavement with binder and laying thereon a 2-in. top of topeka. This leaves the brick undisturbed and thoroughly compacted under traffic and we have regarded this as the most valuable foundation which we could procure.

"Cortland Ave. was resurfaced in 1922 at a cost of $2.13 per square yard and shows at this date a perfectly smooth surface. In 1924 pavements were laid on five streets at the following costs per square yard: $1.55, $1.65, $1.67, $1.77, and $1.85. We believe we are getting a better top than by relaying brick and at a much less cost."

Letters to the Editor

This department aims to be a forum for the discussion of the views of engineers and contractors. The range of interest should be as wide as possible. Contributors are, therefore, asked to make their letters short.

Flow Losses in Large Pipes

Sir—The data given by Fred C. Scobey in his article upon Flow of Water in Tulsa 60-in. and 54-in. Concrete Pipe Line in *Engineering News-Record*, May 28, 1925, p. 894, are extremely interesting and significant. Those relating to loss of head in bends are particularly interesting to the writer as a possible confirmation in part of the conclusions summarized by him in an article upon Effect of Curvature upon Flow in Open Channels, *Engineering News-Record*, Sept. 29, 1921, p. 516. While the application of data obtained upon flow in closed pipes under pressure to flow in open channels is uncertain, lack of sufficient data relating to the latter condition is such that it seems desirable to utilize everything which may be significant in this connection.

The conclusion reached by the writer was "that in artificial channels for which the coefficient n in Kutter's formula would not exceed about 0.025 for a straight channel, an addition of from 0.003 to 0.005 should be made to the coefficient for sections in which the amount of curvature is considerable."

The excess loss of head due to curves and bends is probably due largely, if not wholly, to a disturbance in flow conditions by which the thread of maximum velocity is deflected nearer the outside of the curves and the velocities of the filaments in contact with the wetted perimeter in this portion are correspondingly increased as compared with those obtaining when the flow is in straight lines. This probably results in a considerable increase of the average velocity of the filaments in contact with the surface of the conduit and consequently in increased frictional loss, while the mean velocity may remain unchanged. This condition exists in closed conduits as well as open channels. If it were possible to estimate the increase in velocity of the filaments in contact with the surface of the conduit, it might be possible to compute theoretically the increased resistance due to the change in direction, especially if the length of conduit in which the disturbing condition exists could be accurately determined.

The changes in direction in the Tulsa aqueduct being made by bends rather than curves, this theory can be applied only by assuming the distance in which disturbed condition of flow exists. Even if regular curves had been used, however, it would still be necessary to estimate the distance beyond the curve in which disturbed condition of flow exists.

Mr. Scobey shows that the value of n in a section 34,788 ft. long containing 29 bends, was 0.0111, while in a section 80,898 ft. long, classified as slightly sinuous, but containing six bends, the coefficient was 0.0107, an excess of 0.0004 for the section containing a number of bends. If it be assumed that the disturbed condition of flow at each bend extended for 100 ft., then the portion of the section affected by the disturbing conditions was about one-twelfth of the total length and roughly the increase in n in the portion affected by the bends may be taken as 12 times 0.0004 or 0.0048.

If the disturbed condition at each bend be assumed to extend 200 ft., the increase in the value of n would be 0.0024.

Such a method of estimation assumed that increase in frictional loss is directly proportioned to increase in the value of n. Within the limits considered, this is approximately correct as may be shown by computing the value of n for the entire section on the assumption that in the straight portions it may be taken as 0.0107 and in the sections where disturbed flow exists at 0.0155 (= 0.0107 + 0.0048). This computation gives n for the entire section as 0.0113, compared with 0.0111 from test data.

This analysis seems to confirm, as far as it goes, the writer's previous estimate of the excess loss of head in bends quoted above.

HARRISON P. EDDY,
Consulting Engineer.

Boston, Mass.
June 5, 1925.

Drains Under Earth Dams

Sir—The failure of the French Landing Dam, as described in *Engineering News-Record*, April 30, 1925, p. 735, leads me to some comparisons between this structure and the earth levees built along the Mississippi and to consider the desirability of attempting to underdrain such embankments.

The French Landing Dam, as described by the designer, Gardner S. Williams, appears to be a bold section when compared to such levees. In a dam over 30 ft. high without core wall, slopes of 2½ and 2 to 1 seem to me to be insufficient when the crown is only 8 ft. wide. On the Mississippi a levee of 30 ft. with an 8-ft. crown would have a base of over 250 ft. against 143 ft. in this dam, and the presence of a berm on the slope would distribute the mass nearer the base. The method of construction would be the same except that the levee would have a cutoff trench along the center line, and while the levee is built of more pervious material on a more or less pervious foundation the water does not stand against it long enough to saturate it as is the case with a dam. I am of the opinion that slopes of 3 to 1 both sides, with an 8-ft. crown, or a 2½ to 1 upstream and 3½ to 1 downstream, without drain pipes, is the least safe section for this dam.

Open drain pipes is an idea borrowed from the inspection galleries of concrete dams and erroneously applied to earthwork structures. Why build a dam to restrain water and then install drains to conduct it through—bringing part of the dam with it? Ordinarily concrete cannot be made seepage proof and there is upward pressure to be cared for, but an earth dam will take care of upthrust itself and drains only aggravate the flow by reducing friction.

The presence of a salient angle in the dam may have been necessary but at this point the ratio of wetted perimeter to mass of dirt was greatest and it was here that the dam failed. Our old friend the line of least resistance.

This with numerous other earth dam failures over the country brings home the fact that this seemingly simple problem in design is not to be dismissed lightly.

ALLEN T. BLYTHE,
Resident Engineer, Yazoo-Mississippi Delta Levee District.

Sherard, Miss.,
June 15, 1925.

[This letter was submitted to Mr. Williams who has replied as follows—EDITOR.]

Sir—Considering separately the two points brought up in Mr. Blythe's letter:

First: As I have had no experience with materials used in levee construction, and appreciate the difference between building a structure to withstand the forces of a rapidly flowing stream, and one designed merely to hold back quiescent water where the only eroding influence is a moderate wave action at the surface, I have never ventured to express an opinion as to the propriety of the accepted designs for the former, but in the light of such experiences as I have had it does seem to me that by properly draining the levee embankments a large reduction in cost with an increase of stability might be secured.

Second: When I developed the drained embankment, and so far as I have been able to discover I am the first one to make use of it, it was not borrowed from the inspection galleries in concrete dams, which at that time were at least not common, but was arrived at as a result of my studies of slow sand filtration, and experiments upon the compacting of earthy materials by the passage of water through them, covering some fifteen years. Several years after I had begun using drains in embankments, the late Frederick P. Stearns, past president of the American Society of Civil Engineers, in discussing with me the construction of his famous North Dike at the Wachussett Reservoir remarked: "Any dam of porous materials is a filter and should be so treated." In the ordinary earthen embankment (see sketch) the line of saturation extends from the upstream water surface to the level of water at the downstream toe of the embankment. If this latter level be at the surface of the ground we have the condition of over 80 per cent of the bank being saturated material and only something less than 20 per cent resting upon it unsaturated. If underdrains be introduced beginning with a header along the center line of the bank and sufficient capacity be provided to carry away the water percolating to it, we then have the same bank with less than 50 per cent saturated and over 50 per cent dry. As the coefficient of friction of

saturated earth is much less than that of dry earth the stability of the bank in the latter condition is seen to be very much greater than it was in the former.

I have been using the drained embankment in all of my hydraulic constructions where embankments were involved for the past fifteen years, with slopes varying from those at French Landing to a 1 on 3 and a 1 on 2½, and all my structures are standing, and the washout at French Landing is the first failure that has occurred on my work, which covers some 35 years of practice.

Several years ago I was called to northern Wisconsin to inspect an embankment constructed wholly of sand, about 35 ft. in height. The water was about 10 ft. below the flow line and the bank was so saturated that the downstream face was sloughing off for a distance of 15 ft. above the

SATURATION CONDITIONS IN DRAINED EARTH EMBANKMENT

toe in places. I immediately had underdrains of V-shaped board troughs—timber being the only material promptly available—worked into the base of the dam as far as it was possible to get them, probably about half way to the center line, and by draining the water out of the downstream portion of the bank restored its stability; the sloughing stopped and inside of sixty days the full head of water was against the bank, and without added material the structure has performed its function for some twelve or thirteen years.

When the water is first raised against a drained embankment the drains usually flow from one-half to three-fourths full, but inside of a week the flow begins to decrease and by the end of a few months, even with the most porous sand, the drains become almost dry.

GARDNER S. WILLIAMS,
Consulting Engineer.

Ann Arbor, Mich.,
June 18, 1925.

Probability Methods for Rainfall and Runoff

Sir—In *Engineering News-Record*, May 28, 1925, p. 906, is a letter from S. L. Moyer, entitled, Probability Methods for Rainfall and Runoff, in which he argues for the propriety of estimating frequency curves for excessive rains or flood flows by using as essential data the maximum rate of rainfall or maximum flood flow in each year of the series covered by the records, omitting all secondary maxima even though they may be materially higher than the maximum for some of the other years.

It seems to the writer that the question relates primarily to what is desired from the probability study. If we merely wish to know in what percentage of the years certain occurrences are likely without reference to the number of times in a year, then the method recommended by Mr. Moyer is appropriate. If, on the other hand, we wish to know the probable total number of occurrences in a given period of years, or, what is the same thing, the average frequency of occurrence, then the omission of secondary maxima in particular years may lead to erroneous results. By including all the floods above a certain rate, we may find five occurrences in a 20-year record showing an average frequency of occurrence of once in four years, and yet we may find that all of these floods occurred in two years showing that they occur in but 10 per cent of the years.

For designing conduits for flood water, it seems to the writer that the number of cases in which flood damage may occur is of greater significance than the number of years in which there may be such damage, and that the method of analysis by which all of the occurrences above certain values are considered, no matter how many occur within a single year, is of more significance than the one recommended by Mr. Moyer.

CHARLES W. SHERMAN,
Of Metcalf & Eddy, Consulting Engineers.

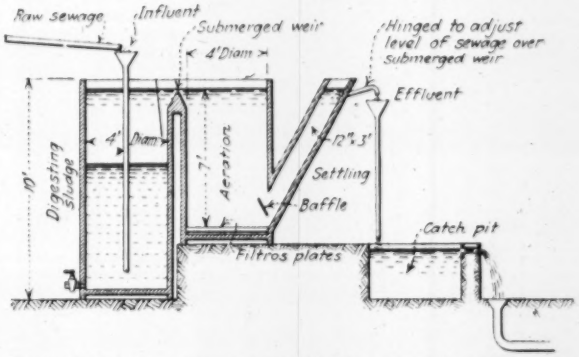
Boston, Mass.,
June 5, 1925.

Disposal of Excess Activated Sludge by Digestion

Sir—I am much interested in the paper by Dr. Karl Imhoff on "Disposal of Excess Activated Sludge by Digestion," read before the American Society of Civil Engineers on May 20 and abstracted in your issue of June 4, p. 936. With Dr. G. G. Nasmith the writer carried out experiments some years ago at the Toronto sewage-works which demonstrated, as Dr. Imhoff now has again demonstrated, that activated sludge could be satisfactorily digested if inoculated with ripe decomposing sludge. This fact was published in the *Canadian Engineer*, Feb. 3, 1921, and fuller details of our experiments are given in the issue of that journal for June 16, 1925. Our experiments extended through several years and were completed in 1920. We had hoped to introduce a plant on a practical scale based upon our discoveries in this field ere this, but the opportunity has not presented itself.

To us the most important discovery we made was that by inoculating the fresh sewage before activation the resulting activated sludge, if allowed to stand, would decompose rapidly without offence, yielding a sludge with the characteristic tarry odor and possessing the good drying qualities of the well-known Imhoff sludge.

As our scheme went much further than sludge digestion it will be best understood by reference to the accompanying sketch. The essential detail was a tank with three compartments through which the sewage passed in series. At the beginning, in the first compartment ripe digested sludge from an Imhoff tank was placed and the sewage to be treated was fed into the bottom of the compartment, passing upward through the sludge into the space above where the mixed sludges from the inoculated sewage settled out and the sewage then passed over a submerged weir into



EXPERIMENTAL APPARATUS FOR DIGESTION OF SLUDGE AND EXCESS ACTIVATED SLUDGE

the second compartment where it went through the process of activation and from thence to the third or settling compartment in the form of a spout. The arrangement was such that the transfer of sludge from the settling compartment to the activation compartment and from the activation compartment to the digestion compartment took place automatically. The amount of sludge maintained in the activation compartment was found to vary inversely with the depth of the liquid over the submerged weir. After a permanent régime had been established the sludge in the digestion compartment consisted of fresh sludge, digested sludge and activated sludge intimately mixed, but we found that no matter where sludge was taken from the apparatus, it would digest in the best way possible even in small quantities contained in a small glass cylinder.

A mechanical difficulty we experienced was the extraordinary rate of gas formation; Fig. 3 of Dr. Imhoff's paper shows the same phenomenon in his experiments where activated sludge, fresh sludge and digested sludge were mixed. From the point of view of obtaining gas for power without long periods of digestion this is a very desirable combination, but in our case we found that, unless the digesting sludges were continually stirred, the level of the liquid in the compartment would rise as much as 3 in., suddenly ejecting large quantities of sludge into the activation compartment which introduced difficulties of settling and occasional throwing of sludge from the settling spout

into a catch pit which was necessary in order that no sludge should be carried away.

The effluent was clear and straw colored, containing an increase of an average of about 70 p.p.m. of dissolved solids, showing that a considerable proportion of the solids dissolved and that very little sludge accumulated during the two years continuous operation of the plant. A typical average chemical result is expressed in parts per million as follows:

	Free Ammonia	Albumenoid Ammonia	Nitrates	Putrescibility
Fresh sewage	10.1	4.1	1.1	30
Outlet of digestion compartment	10.1	5.0	1.3	30
Effluent	1.5	0.7	16.3	100

The air used was 8 cu. ft. per gallon of sewage with a depth of 7 ft. in the activation compartment and the total volume of the apparatus was 12 hours' supply.

We believe the idea of digesting the whole of the sewage, as well as the sludge, carried out in our experiments has distinct possibilities because of the absence of smell, the small amount of sludge collected, the good drying qualities of the sludge and the high purification secured with a relatively small amount of air.

It is clear that the experimental work of Dr. Imhoff in developing a sludge with the novel and valuable properties described has confirmed the results independently discovered by us during the years 1916 to 1920 at Toronto.

WILLIAM GORE,
of Gore, Nasmith & Storrie,
Consulting Engineers.

Toronto, Ont.,
June 16, 1925.

A Plea for Work for Rehabilitated Veterans

Sir—I have read with considerable interest the appeal of the Director of the United States Veterans Bureau to the engineers of America for them to employ ex-service men wherever possible. As a major disabled man myself, with a college degree obtained before enlisting, perhaps the results of some intimate knowledge of the subject may be of interest to the readers of *News-Record*.

In the first place, regardless of how well a man stood in college, regardless of what his technical qualifications are, if he has not had that bugaboo called "experience" the engineering profession shuns him. Furthermore, if a man happens to be so fortunate as to get a contact with an engineering firm without letting them know that he is disabled, the result is that as soon as the firm is apprised of his physical condition, there is a softening of the voice—if the matter is conducted over the telephone by an employment agency, for example—or there is a suspension of the correspondence, rather abruptly, if the matter is being handled by mail.

This is not just my personal experience but as a member of the only organization in the United State composed of major amputations, the U. S. World War Amps, I say that the comrades with whom I come in contact inform me of the same thing. One man says he was with the largest utility in the world before enlisting. However, now that he wears an empty coat sleeve, they will not listen to him and he is engaged in the Veterans Bureau trying to help find a job for the other fellow. But American industry is not alone in the matter by any means. The United States government is acting hypocritically when it appeals to the industries of the nation to help men and then turns them aside from the Civil Service Commission because of the desire to favor political allies. The very man who was mentioned above told me he had to get a Presidential order to get where he is with the Veterans Bureau. The Civil Service of the United States is supposed to help an ex-service man by giving him preference. I say without hesitancy—without fear of any individual or order—that this is the biggest hypocritical sham that was ever ordered. The commission is so prejudiced against the men that they discount their actual ability in order to get less of them in the service of the government instead of giving them any sort of military preference.

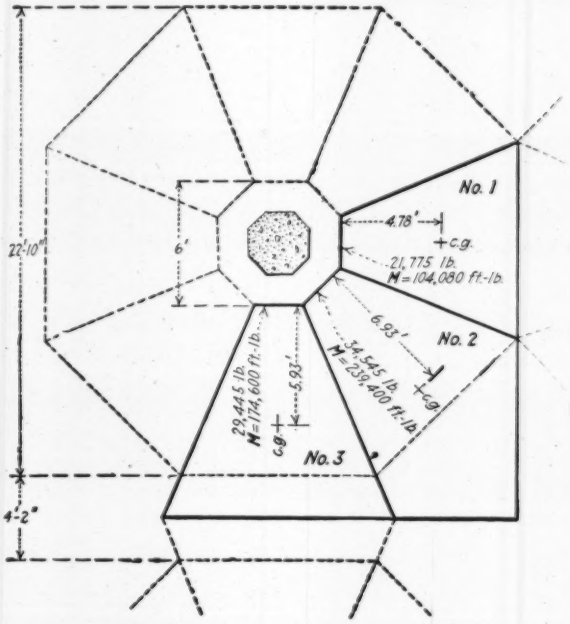
W. BENJAMIN WEST.

New York, N. Y.,
June 20, 1925.

Cantilever Floor Construction Stresses

Sir—The article in *Engineering News-Record*, May 21, 1925, p. 845, entitled Cantilever Floor Construction for Concrete Buildings, presents an interesting problem to the designing engineer as to how far he may go in applying this type of construction.

Analysis of the Printcraft Building design, with 300-lb. live-load provided for, shows that the concrete is sustaining higher unit stresses than those usually recommended. Considering each section of the figure as an independent cantilever bracket the greatest overstress will occur as com-



STRESSES IN CANTILEVER BRACKETS

pression in the bottom of the slab at the edge of the column cap.

The tabulation of stresses below was made for the three typical interior sections as shown by the sketch. As the unit tensile stress used in the design was not given, the result was computed for values between 12,000 and 20,000 lb. per sq.in. The effective depth of the slab at the edge of the column cap was taken as 18 in.

Stress in Steel in Lb. per Sq.In.	Extreme Fiber Stress (Compression) in Concrete in Lb. per Sq.In. 1-2-4 Mix $n = 15$. Section 1	Section 2	Section 3
20,000	792	1,392	1,120
18,000	763	1,355	1,083
16,000	735	1,315	1,048
14,000	705	1,277	1,010
12,000	670	1,230	962

The Joint Committee on Concrete and Reinforced Concrete recommends a value for compression in the extreme fiber in flexure adjacent to supports of continuous beams of 0.45 f'_c or 900 lb. per sq.in. for 2,000-lb. concrete. The elastic limit of such concrete is commonly given at 1,000 to 1,300 lb. per sq.in. and it is of great importance that this value be not exceeded. This would require that the octagonal forms be placed directly adjacent to each other, eliminating the suspended filler slab which is 4 ft. 2 in. wide. Also the filler slab at the corners between forms should be provided with bottom steel to distribute its load to the cantilever sections.

As the unit stress in the steel is increased, the bending moment remaining constant, the neutral axis is brought nearer the compression side of the slab and the unit compressive stress also becomes greater. A relatively low steel working stress is therefore most favorable to this type of design.

N. K. SHEPPARD.

Detroit, Mich.,
June 1, 1925.

News of the Week

CURRENT EVENTS IN THE CIVIL ENGINEERING AND CONTRACTING FIELDS

Engineering Educators Meet at Schenectady, N. Y.

Research, the Teaching of English to Students and Industrial Engineering Discussed

The thirty-third annual meeting of the Society for the Promotion of Engineering Education was held June 16-20, 1925, at Schenectady, N. Y., with headquarters at the engineering building of Union College. The attendance was large for this society, about 350. It was of unusual interest due to the central-feature, which was the preliminary report of the Board of Investigation and Co-ordination, whose work is being financed by the Carnegie Corporation, a report of whose tentative findings will be published in the issue of July 2.

The formal program occupied two days, June 18 and 19, preceded by two days of well-attended special conferences and inspection trips, and followed by an all-day excursion on Lake George. In addition to the major features the convention was remarkable for the well-conducted special meetings of teachers of English, of electrical engineering and of industrial engineering, each group having programs comprising papers by eminent specialists and discussion of high order. As to English, there was indicated an increasing place for it in technical school curricula, due no doubt in considerable part to the influence of alumni and employers of technical graduates. There is being rapidly developed a class of teachers of English who know what kind of instruction technical students need and who, while not engineers, are striving to get the engineering point of view.

As to industrial engineering, while there is not yet complete agreement as to teaching method, technical schools and industry are appreciating the need for engineering graduates who have a wide outlook upon industry and are better prepared to solve the problems of management.

The fact that this convention was held at the seat of one of the great research laboratories of the country, that of the General Electric Co. was utilized in directing attention to the importance of research in connection with engineering instruction. A notable gathering of eminent research workers was held in the laboratory for discussion of this subject. The consensus of opinion was that there are ample funds available for research but the difficulty is to secure men properly fitted for this work.

As one speaker said: This work requires the soundly trained engineer who can apply to his investigations the results of advanced information. Quality is more important than quantity in engineering. How shall these men be trained? One way is through graduate

(*Continued on p.* 1074)

Engineering Fifty Years Ago

From *Engineering News*, June, 1875

THE BRIDGE to be built over the Monongahela River, at the "Point" at Pittsburgh, will be constructed on the suspension principle, but instead of wire cables, immense chains will be employed, of which there will be two. These chains will be composed of wrought iron links, each twenty feet in length and formed of sixteen flat bars placed side by side, and at a distance from each other of one and two inches. Into these spaces at the ends, fit the bars of the next link, and the entire thirty-two bars are joined by an immense hardened iron pin six inches in diameter and four feet long. The lateral width of the chain is forty inches. At the apex of each iron tower the chain will be attached to an iron "saddle," meeting upon rollers that admit of sufficient play to accommodate the expansion and contraction of the chain from heat and cold. From the top of each tower to the main span, and holding somewhat the same relation to the chain as the string does to the bow, are placed girders, which are intended to prevent sagging of the chains under unusual strain. The plans of the superstructure were prepared by Mr. E. Hemberlee, the American Bridge Company's engineer, which company, as we note elsewhere, has the contract.—*American Manufacturer.*

The contract for the entire work of piers and superstructure of the new "Point" bridge was awarded last Thursday to the American Bridge Company, of Chicago at the price named in their proposal, $401,250. The company let the masonry to John Megraw, of Allegheny. The bridge is to be completed for travel by August, 1876. The entire cost, including approaches, etc., will be about $450,000.

To Construct Another 220,000-Volt Transmission Line

Application was made on May 28 to the California Railroad Commission by the Southern California Edison Co. for permission to construct a 225-mile transmission line designed to bring electrical energy from the chain of power plants on Big Creek at a potential of 220,000 volts to load centers in southern California.

The new line will require a construction period of two to three years, it is estimated, and is to cost about $6,000,000. Its capacity will be 150,000 kw. Bids for material are to be received soon. The conductors specified are aluminum cable with steel cores.

Wide Range of Subjects at N.E.L.A. Meeting

Secretary Hoover Speaks on State Versus Federal Regulation—Special Sections

The annual convention of the National Electric Light Association at San Francisco, June 15 to 19, brought together some 3,000 representative men of the electrical industry from all parts of the country. General sessions were held in the mornings and in the afternoons the several sections, namely, technical, accounting, commercial and public relations, held separate sessions to discuss reports pertaining to their respective fields. At the only evening meeting Herbert Hoover spoke before an audience of about 6,000 people, touching on some of the chief problems of the electrical industry today. In speaking of public relations he said, in part:

"The real issue in this question is whether states, through their regulative powers, are already in control of the situation for the public interest.

"The anxiety in the public mind over these charges is inherited from the bitter chapter of exploitation when the railroads went through a similar era of expansion, consolidation, and interconnection. No one can review that period of wild finance, plunder and corruption in transportation with any feeling of national pride or satisfaction.

Effectiveness of State Regulation

"No one can survey the work of the state commissions and the instructive series of court decisions concerning their rulings as a whole without realizing that we are gradually developing a science of regulation and of understanding on one hand of the means of drawing the fine line between minimum rates to the people and on the other hand of such a reasonable profit to the industry as will stimulate its advancement. It is my belief from an investigation that the Public Service Commissions with very little just criticism are proving themselves fully adequate to control the situation. The laws as written in the state statute books are sufficient to protect both the public and the industry, the two parties to the utility contract.

Federal Regulation

"It has been proposed that as power districts may be no respectors of state lines, we must have federal regulation of power. I do not agree with the conclusion that federal regulation is necessary. I can see no reason for the imposition of a superior regulation, merely because Congress may have the power to exercise its authority under the commerce clause. The essence of regulation lies in a tight grip on the concern that actually deals with the

(*Continued on p.* 1075)

Controversy Over Tolls Delays Delaware River Bridge Work

Final action by the Delaware River Bridge Joint Commission on one of two contracts for work on the Philadelphia-Camden bridge, for which bids were received on June 17, has been held up pending developments in a controversy over whether or not tolls are to be charged. The contract in question provides for the construction of the roadway and footwalk slabs on the two approaches and on the main bridge structure and for the paving of the approach roadways with granite block and of the main structure roadway with asphalt. The slabs are to be of reinforced concrete, the approach slabs being 7 in. thick and the slabs on the suspended spans being 6 in. thick. The bridge is financed jointly by the States of New Jersey and Pennsylvania and the city of Philadelphia. Funds from Pennsylvania have been appropriated from current revenues and funds from Philadelphia have been provided by bond issues of general character which are to be paid for by taxation and retired in 50 years. Pennsylvania and New Jersey desire that the bridge shall be free of toll. New Jersey's share of the costs has been provided, however, by bond issues covering specifically the Philadelphia-Camden bridge and the New Jersey-New York vehicular tunnel. These bonds were voted on and issued with the intention that tolls should pay the interest and retirement charges. The subject of tolls has been a matter of controversy with the members of the Delaware River Bridge Joint Commission for several months. It had been thought that New Jersey would charge toll of vehicles going on the bridge from that side of the river, although no toll would be charged on the Pennsylvania side. In an opinion furnished to the mayor of Philadelphia, however, the city solicitor held that the bridge is an instrument of interstate commerce and that in the absence of an agreement between the two states for levying toll, New Jersey cannot legally make such charges but the entire matter is subject to Federal jurisdiction. In view of this opinion, the New Jersey members of the bridge commission decided to ascertain whether further expenditures of money from the bond issues would be proper if tolls cannot be collected, before further contracts involving New Jersey funds are entered into. For this reason the award of the contract for the roadway and sidewalk slabs was not made on June 19. Counsel to the Delaware River Bridge Joint Commission was directed to confer with the governors of the two states and the attorneys-general and submit opinions on the matter at a special meeting to be held June 29. Further delay in awarding the contract may cause delay in completing the bridge.

Engineering Educators Meet

(*Continued from p.* 1073)

departments in science. Another is by establishing special advanced courses in technical schools. In the past the principal research work in fundamentals has been done by scientists from the graduate departments of universities rather than by engineers. Engineering graduates have been more successful in applicational research.

EDUCATION AND INDUSTRY

One of the best appreciated sessions of the Schenectady meeting was that devoted to the above subject. The speakers were Sam A. Lewisohn, of Adolph Lewisohn & Sons; Ira N. Hollis, retiring president of Worcester Polytechnic Institute; F. C. Pratt, vice-president General Electric Co., and A. I. Lipetz, consulting engineer American Locomotive Co.

Mr. Lewisohn began by stating that large-scale production is the only solution of the economic problem of industry. Hence the engineer must be fitted for positions of administration. The management of human relations must eventually devolve upon the line officials. This being true, and also that technical graduates, while well prepared along engineering lines, are deficient in ability to organize human beings, Mr. Lewisohn advocated training to develop this ability although not with the idea of producing personnel specialists.

President Hollis explained the difficulty of teaching such subjects as human relations in a technical school and charged industry with the responsibility of adapting the product of the schools to the conditions met in practice.

Mr. Lipetz summed the whole subject up by showing how co-operation between teaching and industry can be maintained. After tracing the rather zigzag progress of science and invention, one being ahead now and the other then, he outlined a plan of engineering instruction which looks on an educational institution as an industrial enterprise. The students need to be trained for independent solution of practical problems by solving problems chosen in conformity with actual conditions. Teachers should if possible be actually connected with the industry whose problems they teach.

The president for the coming year will be Dean G. B. Pegram, of Columbia University and the secretary continues to be Dean F. L. Bishop, of the University of Pittsburgh. The meeting next year will be at the State University of Iowa, Iowa City.

Pan-American Road Congress to Be Held in Buenos Aires

The Pan-American Road Congress will be held in Buenos Aires, Argentine, South America, Oct. 3-13. The American delegation will sail from New York, Sept. 3, on the Grace Line Steamer "Santa Anna." The itinerary of the trip includes stops in Panama, Peru and Chili. From Valparaiso, Chili, the delegation will cross the Andes by rail reaching Buenos Aires about two days in advance of the opening of the conference. During the period of the conference visits will be made to other cities in Argentine and probably to Montevideo, Uruguay. Stops have been arranged on the return trip at Sao Paulo and at Rio de Janeiro, Brazil. The party will land in New York on Nov. 11.

John H. Hayward, Pioneer in Construction Equipment, Dies

John H. Hayward, a designer and builder of construction equipment, died at his home in Teaneck, N. J., on June 14. Mr. Hayward was born in New York, April 7, 1847, and after graduating from a military academy took a position in the Manhattan Savings Institution, where he stayed for several years. Later he went into the produce business and was a member of the New York Produce Exchange. About 1873 he moved to Staten Island to live and there met a Dr. Johnson, an inventor, who interested him in the design of machinery and led him to appreciate the advantages to be gained from applying machinery to construction work. Subsequently he became general manager of the Manhattan Dredging & Elevating Co., an organization doing general contracting business. It was while with this company that he assisted in the development, and later manufactured, the so-called orange-peel type of bucket which had been patented by Dr. Johnson some years previous. From this time on Mr. Hayward devoted himself to the design and construction of excavating machinery of various types, later forming the Hayward Co., of which he was vice-president and treasurer at the time of his death. Details of the equipment developed by Mr. Hayward are to be given in a history of the development of construction machinery which *Engineering News-Record* has in preparation.

Plan Fixed Bridges at Chicago

As the latest step in the old project for fixed bridges in place of drawbridges over the Chicago River, a recommendation has been made to the city council by A. A. Sprague, commissioner of public works, to the effect that all existing drawbridges giving a headroom of at least 16½ ft. should be made fixed bridges by Jan. 1, 1930. For reconstructing 42 present highway bridges and building 23 new bridges during the next 50-year period it is estimated that the cost would be about $24,000,000 for fixed bridges, as compared with $60,000,000 if drawbridges are retained. In addition there would be a saving of the enormous aggregate of time now lost while traffic is interrupted by the opening of drawbridges. This change would not affect the Lakes-to-Gulf waterway, as it is designed for barge traffic.

Fellowship in Highway Transport Established at Michigan

A Fellowship in Highway Transport to be devoted to investigations under the direction of the Division of Highway Engineering and Highway Transport of the University of Michigan covering an approved subject relative to the utilization and operation of motor buses has been established recently by the Reo Motor Car Co. of Lansing, Mich. The Reo Motor Car Co. fellow will make investigations relative to the economic fields of motor bus transportation and efficient methods of operation for urban and intercity motor bus systems.

W. J. Dibdin of Contact Bed Fame Dies in England

William Joseph Dibdin, who introduced contact beds for treating sewage in the eighteen nineties, died on June 9 at the age of 74 years. From 1882 to 1897 he was chemist to the Metropolitan Board of Works and its successor, the London County Council. In the late eighties he conducted experiments on the chemical treatment of London sewage which were followed by the construction of the Barking and Crossness precipitation works, put in operation in 1889 and 1892 respectively. In March, 1891, shortly after the appearance of the classic reports on the work of the Lawrence (Mass.) Experiment Station, the London County Council ordered experiments made on the bacterial treatment of sewage—primarily effluent from the precipitation works. These experiments were begun by Dibdin in May, 1892, making use of beds of burnt clay, coke, pan breeze (a harder coke, from near-by gas works) and sand. About the same time, Dibdin induced his fellow members on the Sutton Urban District Council to change the plans for filter beds designed to treat chemical precipitation effluent when it could not be applied to the sewage forms. Of six proposed polarite filters only two were built, with two of coke breeze and two of sand, and an extra bed of "burnt ballast" (clay). In 1895-96 the type of contact beds that for some time bore Dibdin's name were built, and in 1904 triple contact beds were put in use at the Surrey sewage-works.

When the writer of these notes visited Dibdin in 1904, the latter, who was then devoting much attention to slate beds for sewage treatment, expressed regret that he had not taken out patents on the contact beds; he also spoke strongly against the use of septic tanks—which is interesting in view of the subsequent decline of the contact bed and the little footing ever gained by slate beds, correct as their underlying scientific principle may be.

After 1897 Mr. Dibdin was in private practice. He was a past president of the Institute of Sanitary Engineers and of the Association of Managers of Sewage Works. He invented the Board of Trade standard pentane argand, a radial and a hand photometer, read many notable papers, including two on sewage treatment, before the Institution of Civil Engineers (Vol. 88, Part II, 1886-7; Vol. 129, Part II, 1896-7) and several books, one of which was "The Purification of Sewage and Water," published in 1903.

N.E.L.A. Meeting

(*Continued from p.* 1073)

consumer. There is the possibility that generating concerns may sell their power wholesale at the state line to distributing companies, thus attempting to make their wholesale prices exempt from the regulation of the consuming state. But that state still regulates the price and service of the distributing company. Most commissions exercise supervision of the contracts for purchase of power. The commissions are unlikely to blindly accept as an item of cost the amount paid to an external transmission company for its power, but rather they will examine the cost and reject it as a basic element if found unfair or excessive or collusive. The utilities themselves would do well not to oppose it. It would fill the only gap open for federal intervention. For the rest co-operation between commissions could settle the possible minor questions.

"And there are the most weighty of reasons against federal regulation. Power is, by necessity, bound to be local in its districts—as to its service, its generation and distribution. It differs widely from the interstate implications of the railways where they are dependent not upon districts but upon whole groups of states. Local acquaintance, local valuation and public opinion can operate upon power to their fullest extent. Nothing will produce worse service than to attempt to transfer local problems to absentee solution at Washington. And if our democracy will stand at all it must stand upon the local responsibility. Nothing could be a more hideous extension of centralization in the federal government than to thus undermine the state utility commissions and state responsibilities."

Technical Sessions

At meetings of the technical section there were usually five or six hundred present; there was little or no discussion on most of the papers. The report of the Hydraulic Power Committee, typical of the reports summarizing the year's work of the several technical committees, reviewed progress in hydraulic power development and recommended ways and means of co-operation in further study. This year's report contained only a short statement about the pitting of turbine runners because manufacturers objected to the form of the report as originally prepared and publication was postponed in the hope of reconciling statements of manufacturers and committee members for a comprehensive statement next year. Snow surveys were mentioned as an important factor in economical purchase of fuel for standby service and extension of the chain of snow-measurement stations in the Sierra Nevada Mountains was reported.

A paper on "Special Features in Western Turbine and Water-Wheel Design" by E. C. Hutchinson, vice-president Pelton Water Wheel Co., summarized recent improvements in automatic control equipment, hydraulically balanced valves, rubber seal rings, runners and draft tubes. An excellent series of slides was shown with this paper.

H. A. Barre, Southern California Edison Co., read a paper on "Some Factors Affecting the Relation of Steam and Water Power in Combined Systems," Col. William Kelly, formerly of the Federal Power Commission and now director of engineering, N.E.L.A., spoke of his need for co-operation in co-ordinating the work of 500 committees and sub-committees of the organization. William F. Durand, president, American Society of Mechanical Engineers, read a paper on "The Engineer as a Factor in Human Affairs."

Pacific Port Authorities Meet in San Francisco

The twelfth annual convention of the Pacific Coast Association of Port Authorities was held in San Francisco, June 18, 19 and 20. With a registration of about forty delegates, Pacific Coast cities from Vancouver, B. C., to San Diego, Calif., were well represented.

The papers presented included the following: "Dredging," James H. Polhemus, general manager and engineer, Port of Portland, Portland, Ore.; "Purposes and Progress of Port Development at Seattle," George F. Cotterill, president Port Commission, Seattle, Wash.; "Municipal Belt Lines," C. J. Colden, president Board of Harbor Commissioners, Los Angeles, Calif.; "Determining Factors in Selection of Piling for Waterfront Structures," George F. Nicholson, harbor engineer, Los Angeles, Calif.; "Waterfront Zoning," M. A. Graham, president Board of Harbor Commissioners, San Diego, Calif.; "Jacketed Piles," Frank G. White, chief engineer Board of State Harbor Commissioners, San Francisco, Calif.; "Advantages of a Cold Storage Plant as a Port Facility," Col. G. H. Kirkpatrick," president Vancouver Harbor Commission, Vancouver, B. C.; "Port Traffic," W. S. Cahill, traffic manager Port of Seattle, Seattle, Wash.; "Responsibilities of Ports to Shippers and Operators," Fred. S. Knight, chief wharfinger Board of State Harbor Commissioners, San Francisco, Calif.

In the discussions emphasis was given to the need for water-proofing concrete structures between low and high tide levels. The crystallization of salts as moisture evaporates was cited as a frequent cause of progressive deterioration between tide levels in structures that might show no deterioration above or below this zone.

Experiments and tests on suction dredges at Portland to determine the types of cutter heads best suited to handling materials were reported and refrence was made to studies now under way with Wood screw pumps to reduce difficulties with obstructions.

Attention was directed to the importance of port zoning for the purpose of (1) segregating freight involving fire hazard, such as oil and lumber, (2) assigning works likely to produce smoke or smells with respect to prevailing winds and (3) reserving suitable locations for aquatic parks and places of public amusement.

Canadian Harbor Construction

The Canadian Parliament has voted an appropriation of $5,000,000 for extensions to the Quebec harbor. This will enable the harbor commissioners to continue the work they started last fall and which will take several years to complete.

The program for the improvement of the harbor at Toronto, Ont., Canada, calls for an expenditure of $7,500,000 during the next five years. This includes the cost of filling necessary for the new viaduct construction along the water front.

Railroad Across Pennsylvania Discussed Before Commission

Objections were entered and answered before the director of the Bureau of Finance of the Interstate Commerce Commission, at a hearing in Washington June 22 on the application of the New York, Pittsburgh & Chicago R.R. Co. for a "certificate of convenience and necessity" to build a new line of railroad across the state of Pennsylvania as a link in a proposed railroad system reaching from the Atlantic seaboard with the Middle West. A subsequent session will be held at a date to be fixed later when witnesses for the applicant will be cross-examined.

The New York, Pittsburgh & Chicago Railroad Co. early in April applied to the commission for authority to build a railroad from Pittsburgh to Easton, Pa., a distance of 283 miles, with two branch lines, as shown in the accompanying map. Its proposition is a revival of a similar railroad project started about twenty years ago. In 1914 the line was located from Pittsburgh as far as the Susquehanna River and plans were prepared for the bridges, viaducts and tunnels. From the Susquehanna to Easton the line has not been located on the ground.

The railroad will be double track and will have an 0.3 per cent grade against eastbound traffic and 0.4 against westbound, except for a 7½-mile pusher grade of 1.38 per cent. The maximum curvature is 4 deg. On account of the mountainous character of the country, the grading will be heavy and there will be numerous tunnels and viaducts, some of the latter being considerably over 100 ft. high and one of them being 300 ft. high. The maximum tunnel length is 15,000 ft. All construction is to be of permanent character and all highway and railway crossings separated.

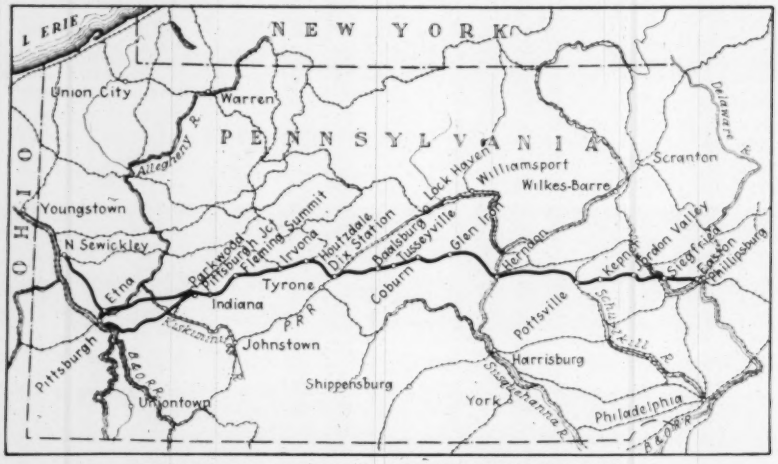
The estimated cost per mile is as follows: Roadway construction, $530,000; equipment, $128,000; and general expenses, which include interest during construction, $99,000, a total of $757,000 a mile.

The projected line forms an essential link in the trunk line railroad system which L. F. Loree, president of the Delaware & Hudson, is reported to be planning. By using the Lehigh Valley from Easton to New York and the Wabash west of Pittsburgh, he will have a line from New York to Chicago 80 miles shorter than the Pennsylvania and still shorter than either that of the Baltimore & Ohio or the New York Central.

At the hearing counsel appeared for the New York Central and the Pennsylvania railroads, which have entered opposition on the ground that existing facilities are adequate to handle traffic in the territory. Daniel Willard, president of the Baltimore & Ohio, testified that the proposed line, if built, simply would take away business from lines with present capacity to handle all traffic in the territory.

L. F. Loree, who represented the E. H. Harriman estate, which is interested in the proposed road, testified that Mr. Harriman many years ago became interested in the proposal and acquired franchises and rights under which it is now proposed to proceed. He declared the attitude of the New York Central inconsistent in that two years ago its officers testified that there is need for additional lines through Pennsylvania. If the application is granted, those behind the project can finance it easily, Mr. Loree said.

F. A. Molitor, president of the applicant corporation, said he had surveyed the proposed line in 1913 and that in 1914 part of the route was staked. Replying to criticisms that the cost of construction would be excessive, Colonel Molitor explained that the estimate of $757,000 a mile included interest during construction and equipment. Referring to construction costs in past years, Colonel Molitor pointed out that one railroad constructed in 1914 cost $333,000 a mile while, due to recognized increases in cost since that year, it would cost twice that sum per mile today.



PROJECTED RAILROAD ACROSS PENNSYLVANIA

Plans for Toronto, Ont., Viaduct

The plans and specifications for the railroad viaduct to be built by the Canadian Pacific and the Canadian National Rys. are practically completed and it is expected that bids will be called for in the near future.

Engineers Appointed to Draw Up Plans for $5,000,000 Dam

A board of consulting engineers to supervise plans and specifications for the construction of the Coolidge Dam on the San Carlos Indian Reservation in Arizona, was named June 22 by the Commissioner of Indian Affairs with the approval of the Secretary of the Interior.

The members of the board include, Louis C. Hill, construction engineer, and Fred A. Noetzli, designing engineer, Los Angeles, Calif., and Andrew J. Wiley, construction engineer, Boise, Idaho. All of the appointees have wide experience in engineering and irrigation enterprises in the West, two of them having served with the Bureau of Reclamation.

The dam, which will be built across the Gila River near San Carlos, will cost approximately $5,000,000 and will store water for the irrigation of from 75,000 to 100,000 acres of Indian lands, public and private lands in the lower Gila River Valley. It will furnish a permanent supply of water to the Pima Indians living on the San Carlos Reservation.

Congress recently authorized the construction of this reclamation project, the expenditure not to exceed $5,500,000. An appropriation of $450,000 has been made to begin work and the selection of a board of consulting engineers to draw up and supervise plans and specifications for the dam will be the first step toward completion of the project.

Construction Starts on Rocky Creek Power Plant

Construction has been started on the twelfth hydro-electric plant of the Southern Power Co.'s system. The new plant is at Rocky Creek on the Catawba River in South Carolina. The plant will have an installed capacity of 60,000 hp.

Village Sewage Works Projects on Long Island, New York

Sewage-treatment projects for several villages on the Long Island coast as an outcome of last winter's oyster-typhoid outbreak are reported by *Health News*, the official organ of the New York State Department of Health. Conferences between local officials and the sanitary engineers of the department have been held. The status of the various projects is summarized by *Health News* as follows: "At Patchogue a committee is taking the initial steps toward establishment of a sewer district to include a part of the village and it is expected that a disposal plant ultimately will be constructed. At Greenport plans have been prepared and sent to the state engineer for approval. At Riverhead a committee has been appointed to study the local disposal problem and make recommendations. The village board of Sag Harbor, after holding a public meeting at which sentiment appeared to favor immediate action, has directed its engineer to prepare estimates. A settling tank has already been constructed at Shelter Island."

Engineering Societies

Calendar

Annual Meetings

AMERICAN SOCIETY FOR TESTING MATERIALS, Philadelphia, Pa.; Annual Meeting, Atlantic City, N. J., June 22-26, 1925.

AMERICAN SOCIETY OF CIVIL ENGINEERS, New York City; Summer Meeting, Salt Lake City, July 8-10, 1925.

AMERICAN PUBLIC HEALTH ASSOCIATION, New York City; Annual Convention, St. Louis, Mo., Oct. 19-22, 1925.

AMERICAN SOCIETY FOR MUNICIPAL IMPROVEMENTS, St. Petersburg, Fla.; Annual Meeting, Des Moines, Iowa, Oct. 26-29, 1925.

The Engineers Society of Pennsylvania has elected the following officers for the ensuing year: Frank A. Slack, Harrisburg, Pa., president; Thomas M. Kelker, Harrisburg, Pa., and R. Boone Abbott, Reading, Pa., vice-presidents. Theodore J. Gould is secretary of the society.

The Association of Consulting Engineers of Canada has been granted a dominion charter of incorporation. The purposes of the association are to promote ethical standards and practical efficiency in all branches of consulting engineering and to increase the usefulness of the profession to the public. The incorporators are de Gaspe Beaubien, Robert A. Ross, Arthur Surveyer, James L. Busfield, Henry Holgate, and others of Montreal. The head office of the organization will be at Montreal, Quebec.

Personal Notes

J. FLOYD HALL has been appointed borough engineer, Borough of Swissvale, Pittsburgh, Pa., to succeed his father, the late J. D. HALL.

ROBERT H. WHITTEN, Cleveland, Ohio, city planning and zoning consultant, who was secretary of the city plan and zoning commission, New York City, from 1914 to 1917 and consulting engineer to the city plan commission of Cleveland from 1918 to 1921, announces the removal of his office from Cleveland to 175 Fifth Ave., New York City.

ROBERT RIDGWAY, president of the American Society of Civil Engineers, and chief engineer of the New York State Transit Commission, was given the degree of master of arts at the commencement of Harvard University. Later he addressed the alumni, discussing to some extent the apathy of many of the eligible voters of the country and the tendency of the other half to criticize the government but also noting that there is a steady improvement in the standards of administration of public affairs.

A. M. RAWN has been appointed assistant to the chief engineer of the Los Angeles County sanitation districts. Mr. Rawn has been connected with this work since the inception of the plan to consolidate into one office the sanitation work of the entire county.

SYLVESTER Q. CANNON, city engineer of Salt Lake City, Utah, since 1913 and water supply engineer of the city for a year previous to that time will resign in the near future to devote himself exclusively to his duties as one of the heads of the Mormon church.

L. P. M. GAYLORD has been reappointed county superintendent of Highways for Lewis County, New York, with headquarters at Lowville, N. Y.

O. C. MERRILL, executive secretary of the Federal Power Commission, received from Bates College this week the degree of Doctor of Science; Mr. Merrill was a graduate of the school in 1899.

E. W. ODBERT, Sturgeon Bay, Wis., has been appointed city engineer of that city.

LOUIS D. RICKETTS, consulting engineer, New York City, well known as a mining engineer in Arizona and at one time state geologist of Wyoming, received the degree of doctor of engineering June 17 from Princeton University, from which he graduated in 1881.

GUY A. REMINGTON, general manager of the Nampa-Meridian Irrigation District, has tendered his resignation, effective July 1, in order that he may become manager of the Wichita County Water Improvement District at Wichita Falls, Tex., to which position he was elected recently. Mr. Remington has been in the employ of the Nampa-Meridian Irrigation District for 11 years and has been general manager for the past 4 years.

S. R. GRAY, has been appointed city engineer of Chippewa Falls, Wisconsin.

W. W. FINEREN, Jacksonville, Fla., assistant engineer in the office of the United States district engineer, has resigned that post after 23 years in the service of the government, to engage in business in other fields. Mr. Fineren graduated from Cornell University in 1902 and since that time has been continuously with the United States Engineer Department, on work in New York, North Carolina, New Jersey and Florida; in Florida he had been engaged in construction work at Tampa, Key West and Jacksonville.

ROSWELL E. PFOHL and THOMAS S. MCLAUGHLIN announce the establishment of the firm of Pfohl & McLaughlin, Inc., architects and engineers, 830 Walbridge Building, Buffalo, N. Y. Mr. Pfohl is a graduate of the Massachusetts Institute of Technology and was formerly chief engineer for Moran, Maurice & Proctor, consulting engineers, New York City. Mr. McLaughlin pursued a special course of study in architecture at the Massachusetts Institute of Technology and has for the past nine years practiced architecture at Providence, R. I.

Obituary

BRIG. GEN. CHARLES E. L. B. DAVIS, whose death was noticed in last week's issue, graduated from the U. S. Military Academy in 1866 instead of 1886 as stated there. His appointment to the rank of brigadier general was made in 1908.

GEORGE S. ROBINSON, a civil engineer who was associated with the Potomac Electric Power Co. for a number of years, died at his home in Washington, D. C., June 12.

WORTHINGTON M. JACOBUS, formerly a member of the New Jersey Ship Canal Commission and later its consulting engineer, died at his home in Passaic, N. J., on June 16, aged 58 years.

CHARLES R. WHEELOCK, civil engineer, Orangeville, Ontario, died June 5 after an illness of several weeks, aged 59 years. Mr. Wheelock was senior member of the engineering firm of Wheelock & Christie, and had been county engineer of Dufferin and Peel; he was also a past president of the Ontario Good Roads Association.

HERMAN G. GREEN, contractor, Green Bay, Wis., was accidentally killed while superintending the construction of a state highway bridge over the Brazos River near Valley Junction, Tex., on April 22, 1925. He was born in Green Bay, Wis., March 17, 1876, and received his education at Cornell University, afterwards associating himself with his father, Adolph Green, bridge contractor for many years. In 1917 the company was incorporated under the title of Adolph Green Construction Co., of which the son was vice-president. In 1920, upon the death of Adolph Green, he became president which position he held up to the time of his death. Among the most recent larger projects completed under his supervision was the Main St. bridge over Fox River at Green Bay, Wis.

PROF. H. MULLER-BRESLAU, of Berlin Technical College, Berlin, Germany, died April 23, at the age of 74. He had held the chair of mechanics of construction and steel bridges at this institution for 35 years, having succeeded the well-known Winkler, and was a leader in the development of structural theory during his entire career. His principal book, "Statik der Baukonstruktionen," has long been a standard for structural design in Europe.

J. D. HALL, borough engineer, Borough of Swissvale, Pittsburgh, Pa., died May 27, age 63 years. Mr. Hall had been in active practice of civil engineering for the past 37 years, had been borough engineer of Swissvale for 8 years and previously had been borough engineer of New Kensington, Arnold and Parnassus.

From the Manufacturer's Point of View

A Point of Contact
Between Maker and User of
Construction Equipment and Materials

Concrete Road Yardage

For May the square yardages included in concrete pavement contract awards, according to reports to the Portland Cement Association, were: 7,724,075 for roads; 4,169,707 for streets; and 392,656 for alleys; or a total for the month of 12,286,438 sq.yd.

The accompanying table summarizes the statistics for the current year.

SQUARE YARDS OF CONCRETE PAVEMENT AWARDED DURING 1925

Month	Roads	Streets	Alleys	Total All Classes
Jan.....	3,474,421	963,256	75,236	4,512,913
Feb.....	3,787,192	1,201,224	58,723	5,047,139
Mar....	5,728,862	2,483,662	190,553	8,403,077
Apr.....	12,462,646	4,431,220	469,117	17,362,983
May....	7,724,075	4,169,707	392,656	12,286,438
Total	33,177,196	13,249,069	1,186,285	47,612,550

Western Road Show Is Planned

The Western Road Show to be held in San Francisco Nov. 9-14, will include not only exhibits of construction equipment but also demonstratons of the machinery in actual operation. This combination is made possible by the 18 acre show site that is provided.

The show is sponsored by the Western Construction Equipment Distributors, an organization containing 90 per cent of the construction machinery dealers of the West. No attempt has yet been made to sell space for exhibits, but the secretary, P. H. Curtis, of *Western Highways Builder*, reports that enough firms have already indicated their intention to exhibit to insure the financial success of the show.

There will be several conventions held in conjunction with the road show, and different days have been set apart and programs arranged for the contractors, engineers, supervisors and dealers.

Ford Makes 500,000 Tractors

Ford Motor Co., reached the half-million mark in the production of Fordson tractors, May 21, when Fordson No. 500,000 came off the assembly line at the River Rouge plant.

Manufacture of Fordson tractors today presents a striking contrast to the methods employed eight years ago when production began at the old plant at Dearborn. At the start only three or four Fordsons were produced each day and it took weeks to machine some parts. Today at the River Rouge plant, where all tractors are now manufactured and assembled, output is on a schedule calling for 400 Fordsons a day. The production schedule shows that 31 hours and 8 minutes after iron ore has arrived at the River Rouge docks it is converted and assembled into completed tractors.

The Fordsons almost immediately became a factor in the war, for England, lacking enough horses to plow ground necessary for food, turned to mechanical power and the first 5,000 Fordsons manufactured were purchased by the Ministry of Munitions for farm work in the United Kingdom. Because of this it was not until 1918 that the Fordson tractors began to reach the American farmer and the construction field. Economies effected on the farms by use of the Fordson have in late years attracted other users of power. The result has been that the Fordson has invaded one field after another until at the present time more than twenty per cent of those sold are for use in industrial lines where power is a factor.

Business Notes

WESTINGHOUSE ELECTRIC & MFG. CO., East Pittsburgh, reports, in its financial statement for the fiscal year ended March 31, 1925, sales of $157,880,291. Factory cost, including depreciation and taxes, amounted to $144,242,065, leaving a net manufacturing profit of $13,638,226. The decrease in the total value of all orders booked was 5 per cent as compared with the previous year. The value of unfilled orders at the close of the fiscal year was $55,271,908, compared with $63,738,702 at the close of the previous fiscal year.

L. R. MEISENHELTER, specialist in arranging industrial exhibits, has been placed in charge of assembling the various transportation, mining and manufacturing exhibits for the Sesquicentennial International Exposition in Philadelphia in 1926. He was formerly chief engineer with the Harrisburg Engineering Co. and prior to that vice-president in charge of mechanical engineering for the Houston Standwood & Gamble Co.

BLAW-KNOX CO., Pittsburgh, had as its guests, May 27, forty-three of the leading subway engineers of New York and Philadelphia. After going through the Blaw-Knox factory, the engineers were taken out to inspect the Blaw-Knox inundation system and other equipment and methods that are being used in the construction of the new University of Pittsburgh stadium.

CHICAGO BRIDGE & IRON WORKS, through its New York office, has received an order from the Vacuum Oil Co., for 57 tanks of varying capacities for Melbourne, Sydney, Adelaide and Brisbane in Australia and Wellington and Auckland in New Zealand. Wiggins floating roofs will be used on 28 of the tanks. Approximately 2,500 tons of steel are involved.

CHARLES F. ABBOTT, executive director of the American Institute of Steel Construction, has been appointed a member of the committee on trade relations in connection with the National Distribution Conference as organized by the Chamber of Commerce of the U. S., for the purpose of studying problems of distribution. Mr. Abbott has had much experience along the line of work that is outlined for the committee, having been sales executive and organizer of the New York Sales Manager's Club, the American Society of Sales Executives, and chairman of the Marketing and Distribution Council of the Advertising Club of New York.

WHITE CO., Cleveland, Ohio, announces that H. D. Church has been appointed director of engineering. He was formerly chief engineer of the truck department of the Packard Motor Car Co. and assistant chief engineer of the Chevrolet Motor Co. George W. Smith, formerly in charge of the experimental and research departments, has returned to the White Co. as technical assistant to the vice-president and general manager.

E. M. MCLEAN, formerly division sales manager of the Four-Wheel Drive Auto Co., Clintonville, Wis., has been promoted to the position of general sales manager. Mr. McLean went with the FWD Co. in 1916 as advertising manager. Prior to that time, he had been associated with the Armleder Truck Co., Cincinnati, Ohio, and with the Western Electric Co.

E. R. SUTER has been appointed representative of the building equipment department of the Duriron Co. with offices at 110 South Dearborn St. Chicago. Mr. Suter's territory will cover northern Indiana, northern Illinois, Wisconsin, and the upper peninsula of Michigan.

Equipment and Materials

Standardization of General Purpose Motors

General Electric Co., Schenectady, N. Y., has recently added a new d.c. motor and a redesigned a.c. motor to its general purpose line, which now includes all standard speeds and horsepower ratings for use on any standard circuit. An outstanding advantage of the standardization of these motors is the fact that the bearing linings are interchangeable between the alternating and direct current types; they are also, for the most part, interchangeable in any given type of motor, a total of 2,500 ratings listed utilizing not more than 23 different bearings.

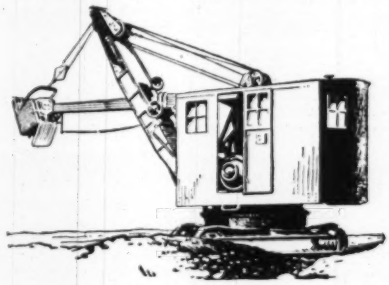
The redesigned a.c. motors supersede the KT-300 line, and are of the squirrel cage and wound rotor type. Standard power ratings range from 5 to 200 hp. This line of motors includes both horizontal and vertical machines. The horizontal motors are suitable for belt, gear or chain drive or direct connection, and the vertical machines are mainly adapted for direct connection.

The new d.c. motors include both constant and adjustable speed machines. The outstanding improvements on the d.c. motors are mechanical including riveted frame construction and steel-shell babbitted bearing linings. The

General Electric Co. advocates the use of sleeve bearings on its motors, but will furnish ball bearings to those who prefer this type.

One-Half Yard Gas Shovel-Crane Uses Only 18 Gears

For the use of road contractors who have need for cranes and shovels at different times but do not wish to buy separate pieces of equipment for which they do not have use at the same time, the Brown Hoisting Machinery Co., Cleveland, Ohio, has recently put on the market a new ½-yd. capacity gas engine crawler shovel-crane.



Features of this machine are its extreme simplicity (there being only 18 gears), its pivot steering device, and its quick convertibility to dipper shovel or clam-shell work. Pivot steering, accomplished by having the creepers run in opposite directions, makes possible the working of this shovel in narrow quarters. Steering is controlled entirely from the operator's position and without swinging the boom. The crowding motion, which is of the rope type, is controlled by one lever, and is entirely independent of the dipper hoist. This feature permits the dippers to be crowded in or out while digging.

Small Motion Picture Camera

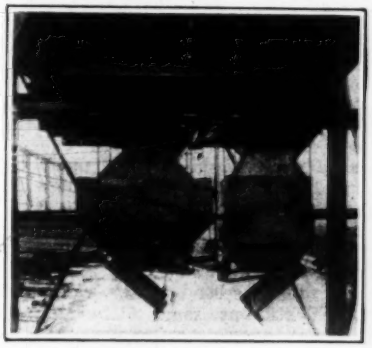
The Bell & Howell Co., Chicago, has designed and built a motion picture camera for commercial use. This camera weighs 4½ lb., may be held in the hand or used with a tripod and operates at two speeds—normal (sixteen pictures per second) or half normal (eight pictures per second). It has a universal focus lens which eliminates the necessity of adjusting the camera for distance. The camera is daylight loading, and the films, which come in 100-ft. rolls have a capacity for 4,000 views per roll. A key-winding spring motor controlled by a governor operates the camera.

The company also markets a projector which connects to any 110-volt light socket and folds up to fit into a small carrying case. The projector weighs 9½ lb.—packed into the carrying case; with film, it weighs 14½ lb.

It is suggested that the motion picture camera and projector will be useful to contractors, engineers and salesmen who wish to demonstrate equipment performance. Its use as an aid to the engineer in consulting work, particularly, is obvious.

Batch-Measuring Bins for Road-Building Uses

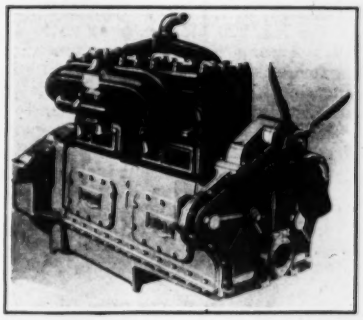
A new type of bin for use in road building has been brought out recently by the Erie Steel Construction Co., Erie, Pa. This bin, which is called the improved Type C plant, has four sloping sides to reduce the amount of dead storage to a minimum. It is used in connection with the company's Type C telescope AggreMeter boxes. The bins are made in two sizes, of 85 and 115 tons capacity.



The AggreMeter boxes are of the telescope type, the sand having adjustment of 6 to 13½ cu.ft. and the stone 12 to 24 cu.ft. Any size batch between these limits can be had. The operating boxes are of the cutoff type mounted on rollers, and to fill the boxes the operator opens both gates with the same operating lever and the material flows until the boxes are filled.

New Heavy-Duty Engine

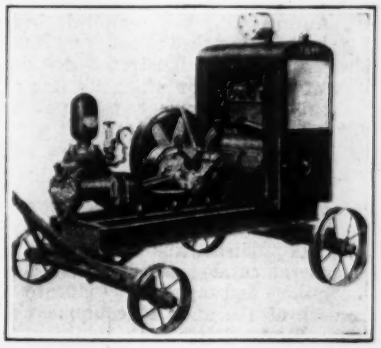
The Buda Co., Harvey, Ill., recently put on the market a heavy-duty engine which develops approximately 50 b.hp. at 600 r.p.m. and 83 b.hp. at 1,000 r.p.m. The engine is built with the idea of taking full power from either end of the crankshaft. The cylinder blocks are cast in pairs to facilitate handling. All working parts of the engine are reached by forced lubrication from a geared pump. The crank case is drained by turning a lever on the side of the crank case without the usual necessity of getting underneath. As shown in the illustration, the crankcase is equipped wtih large hand holes on the carburetor side for inspection or adjustment purposes. The exhaust manifold has a vertical center outlet and makes a very convenient connection for industrial purposes, as the exhaust may be carried off vertically from the center.



This engine finds application in operating such equipment as cranes, hoists, air compressors, shovels, and pumps. It may be furnished either in the bare condition as shown in the illustration or as a complete power unit with sheet metal and steel base.

Improvements Made in Road-Building Pump

The Novo Engine Co., Lansing, Mich., announces changes in its Type W pump. The new design has special adaptability to road-building such as water-supply for the paving mixer, roller and for wetting subgrade and curing concrete. The development of larger power units for this pump some years ago increased its usefulness and capacity, and considerable paving work was made possible with infrequent moving of the pump. At first the cooling water for the power unit was piped directly from the pump to the engine, eliminating the radiator, fan and accessories. Recently it was deemed advisable to use the standard No. 50 power unit, complete with steel housing, radiator and fan, so that the engine could be used as a power unit, operating independently of the pump. The outfit, thus built, may be left unattended for long periods.



Rivet Forge Has One-Piece Hearth

The Buffalo Forge Co., Buffalo, N. Y., has designed a rivet forge with a hearth made entirely from one piece of heavy steel plate. This forge is lighter but stronger than the old two-

piece construction and has no seams to collect moisture and rust. The features of this forge are its deep drawn, 18-in. pressed steel fire pan with turned down brim, which serves as a tool rest, and the No. 200 blower, gear ratio 47½ to 1. Among the other equipment of this forge is a cast-iron gear case with inspection cover, improved blower clamp, volute type of fan case, four steel pipe legs supported by properly placed leg clamps, correctly perforated tuyere plate, steel windshield and a fan shaft that runs on New Departure ball bearings. Ease of knocking down

and setting up is due to the handy way in which it is fitted for this purpose. The four legs are held together half way down and at the top with clamps. This forge weighs 95 lb., measures 43 in. to the top of the hearth, and its largest leg spread is 35 in.

Publications from the Construction Industry

Road Construction — BARBER-GREENE Co., Aurora, Ill., has compiled, in a 48-p. booklet, entitled "Results on Road Jobs," a series of illustrated descriptions of the uses to which its line of road-building equipment was put in 1924. The booklet devotes itself especially to portable belt conveyors and bucket loaders.

Road-Building Equipment — AUSTIN-WESTERN ROAD MACHINERY Co., Chicago, has published the 1925 edition of its general catalog which gives short descriptions and technical specifications for each of the units of equipment in Austin-Western line. In addition to the material contained in the 1924 catalog, this 95-p. booklet describes the new equipment, including leaning-wheel graders, motor graders, portable conveyors, and for-cylinder motor rollers.

Road Rollers—HUBER MFG. Co., Marion, Ohio, describes its new gasoline motor roller which is a result of a half century's experience in manufacturing self-propelled tractive units. Besides the descriptive matter, the booklet is replete with illustrations not only of the roller and attachments, but also of many of the details; a colored cross-sectional view of the power unit shows the lubricating system.

Business Side of Construction

FACTS AND EVENTS THAT AFFECT COST AND VOLUME

U. S. World Trade Position Strong

"The export trade of the United States for 1924 amounted to $4,591,000,000, an increase of $423,000,000, or 10.2 per cent, over the total for 1923," reports the Foreign Commerce Department of the Chamber of Commerce of the United States.

The 1924 imports, amounting to $3,611,000,000, show a decline of $182,000,000, or 4.8 per cent, from the 1923 level.

Export gains were principally in wheat and other grains, raw cotton, copper, and other non-ferrous metals, machinery, vehicles, petroleum, tobacco and rubber. Declines were noted in coal-tar products, paints, pigments, fertilizers, meats, wood and paper.

Import gains occurred in foodstuffs and the non-metallic mineral products. Losses were recorded in animal products, textiles, gums, resins, rubber, tobacco, metals, chemicals and wood-paper.

Commenting upon these favorable developments in our world trade, Chauncey D. Snow, manager of the Foreign Commerce Department, states that "continued increase in exports, and a decrease in imports mark the year 1924. The monthly average for exports figured nearly $383,000,000, and the monthly average for imports, nearly $301,000,000. Automobiles continued their upward course and would have ranked second in the value list, though still at some distance from King Cotton, if wheat had not again emerged from the ranks and claimed second position. Coal had to give way to the gasoline and naphtha group."

That this favorable trade position has been maintained is shown by latest reports. May exports from the United States were $370,000,000, against $335,098,701 during the corresponding period in 1924. Imports totaled $328,000,000, compared with $302,987,791 for the same month last year.

This Week's Contracts—Week Ago—Same Week Last Year

The money value of contracts reported in the present issue of *Engineering News-Record* is here compared with the figures for corresponding weeks.

Minimum costs observed are: $15,000 for waterworks and excavations, $25,000 for other public works, $40,000 for industrial and $150,000 for commercial buildings.

MONEY VALUE OF CONTRACTS LET—ENTIRE U. S.

Week Ending	Public Work	Private Work	Total Contracts
Jun25, 1925	$24,231,000	$31,371,000	$55,602,000
June18, 1925	26,919,000	24,635,000	51,554,000
June26, 1924	23,038,000	14,521,000	37,559,000
Heaviest Week			
1924, May 8	26,370,000	38,829,000	65,199,000
1925, Apr. 2	43,603,000	27,633,000	71,236,000
Jan. 1 to Date			
1925..	500,344,000	644,154,000	1,144,498,000
1924..	487,201,000	539,829,000	1,027,030,000

SOME OF THE CHIEF EXPORTS AND IMPORTS DIRECTLY OR REMOTELY RELATED TO CONSTRUCTION

Exports

Commodity	Value 1924	Value 1923	Per Cent Gain (+) or Loss (—)
Automobiles and parts	$205,682,000	$165,270,000	+24.5
Refined copper ingots, bars, etc	138,298,000	110,489,000	+25.2
Coal and coke	115,961,000	166,014,000	—30.1
Lubricating oil	86,701,000	76,656,000	+13.1
Boards, planks and scantlings	78,631,000	81,057,000	— 3.0
Iron and steel plates, sheets, skelp and strips	58,482,000	58,613,000	— 0.2
Gas and fuel oil	49,262,000	35,708,000	+38.0
Iron and steel tubular products, pipe fittings, etc	28,302,000	27,322,000	+ 3.6
Logs; round, hewn and sawed timbers	27,500,000	26,584,000	+ 3.4
Tools	15,822,000	15,710,000	+ 0.7
Metal-working machine tools	14,594,000	13,105,000	+11.4
Paints, pigments and varnishes	14,326,000	16,552,000	—13.4
Structural iron and steel	13,387,000	13,993,000	— 4.3
Railway cars and parts	13,117,000	15,627,000	—16.1
Construction and conveying machinery	10,658,000	9,122,000	+16.8
Mining and quarrying machinery	10,080,000	10,137,000	— 0.6
Iron and steel bars and rods	9,367,000	14,752,000	—36.5
Glass and glass products	8,716,000	10,964,000	—20.5
Steel rails	7,954,000	10,274,000	—22.6
Pumps	7,119,000	7,462,000	— 4.6
Steam locomotives	5,649,000	4,422,000	+27.8
Asphalt and bitumen, manufactured	1,214,000	951,000	+27.2
Cement, hydraulic	2,615,000	2,944,000	—11.1
Iron and steel bolts, nuts, etc	2,933,000	3,823,000	—23.

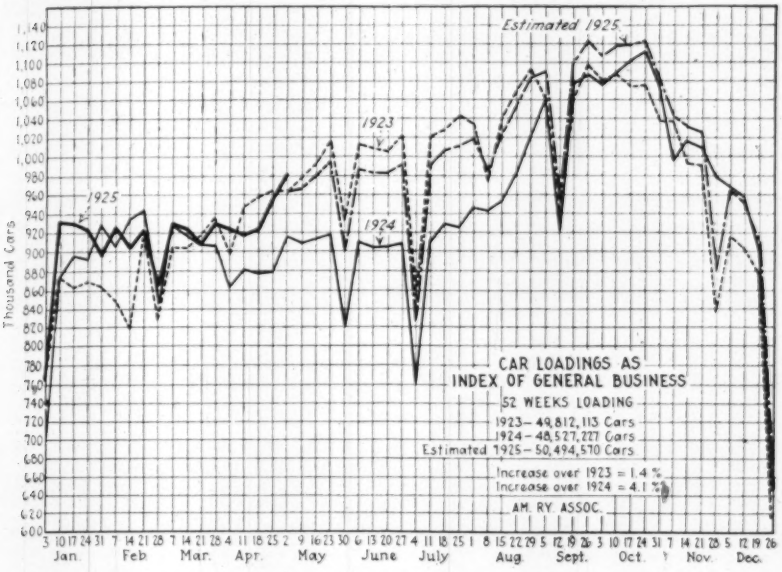
Imports

Commodity	Value 1924	Value 1923	Per Cent Gain (+) or Loss (—)
Boards, planks, deals, and sawed cabinet woods	$52,985,000	$62,480,000	—15.2
Glass	19,171,000	24,898,000	—23.0
Iron ore	10,581,000	11,309,000	— 6.4
Laths	10,152,000	9,332,000	+ 8.8
Shingles	9,328,000	9,812,000	— 4.9
Asphalt and bitumen, un-manufactured	1,203,000	1,080,000	+11.0
Cement, hydraulic	3,117,000	2,964,000	+ 5.0
Coal and coke	3,814,000	13,111,000	—70.9
Pig iron	3,741,000	9,005,000	—58.5
Rails	1,313,000	963,000	+36.0
Scrap	1,026,000	2,783,000	—63.4
Steel ingots	3,074,000	2,372,000	+29.5
Structural shapes	1,904,000	682,000	+178.0
Tubular products	2,782,000	861,000	+224.0
Marble, breccia and onyx	1,283,000	1,507,000	—14.5

Car Loadings Portend Gain in General Business

American Railway Association Expects Increase This Year of 4 Per Cent Over Last and 1 Per Cent Over 1923

An unmistakably optimistic business outlook for the remainder of the current year is gained from the report of the Car Service Division of the American Railway Association.



In his report, M. J. Gormley, chairman, points out logical reasons for expecting heavier freight loadings at the peak of this season, than during corresponding periods since 1923.

It is evident that the volume of 1925 freight traffic will be a trifle over one per cent heavier than 1923 and about 4 per cent ahead of last year.

In estimating loadings for the first quarter of 1925, those submitted by the Division were only 0.7 per cent in excess of actual loadings.

Mr. Gormley's report, in part, follows:

"This estimate of the loading for the balance of the year 1925 is based on our best judgment, supplemented by reports from commodity committees of the Regional Advisory Boards, furnishing estimates of anticipated loading.

"Estimated June and July loading this year is shown to be less than same months of 1923 on the theory that assurance of continued adequate transportation results in not laying in of large stocks in advance of the actual necessities as was done in 1923. This tendency to carry smaller stocks, will, in our opinion, likewise cause heavier loading in the fall months this year to meet demand of that period and cause the high peaks indicated for September and October, which could be obviated to some extent by earlier shipments in anticipation of the fall needs.

"While it may be that we are overly optimistic in our estimate as to the volume of traffic that will be handled during 1925, nevertheless, we cannot find any substantial grounds in support of the statements we hear occasionally about a decline in business and which would justify us in making any change in our estimate.

"Total carloadings, 1925 to date, show

(*Continued on p. 1082*)

Business Briefs

Call money ranged from 3¾ to 4½ per cent, June 22; year ago, 2 per cent.

Time loans, all periods, 3¾@4 per cent.

Commercial paper: best names, 4 per cent; other names, 4¼ per cent.

Foreign exchange (Demand):

	Par	This Week	Last Week	Year Ago
Sterling	$4.86⅔	$4.85¾	$4.85¾	$4.32 7/16
Franc	.193	.0466	.0480¼	.0534¼
Lira	.193	.0375¼	.0387	.0432¾
Mark	.238	.2380¼	.238	
Florin	.402	.4009¾	.4016	.3748
Peseta	.193	.1455	.1458	.1342
Krona	.268	.2674	.2675	.2654

Use of Average Bids in Handling Minor Items on Estimates

Supplementary to tabulations of average bid prices covering minor items on subway estimate sheets, published in the Feb. 26 issue of *Engineering News-Record*, p. 377, and in the March 26 issue, p. 543, the following list has been prepared.

The items vary little from a standard price and the average is derived from the three lowest bids occurring in estimates on a given number of sections of New York subway and tunnel construction.

The use of the average bid will guide, if not eliminate, the guesswork usually involved in minor items on estimate sheets.

The tables were compiled by Alexander Lyle, Assoc. Mem. Am. Soc. C. E.

AVERAGE BID PRICES COVERING MINOR ITEMS ON ESTIMATES

Classification	Unit	No. of Sects.	Bid Price Maximum	Bid Price Minimum	Bid Price Average	Per Cent Ratio, Max. to Min.
By-pass pipe W.S.—20 in.-above street	Lin.ft.	4	$28.00	$7.00	$16.79	400
By-pass trestle support	Lin.ft.	2	25.00	2.40	8.60	1,040
By-pass cable support—over 16 in.	Lin.ft.	3	25.00	3.60	11.84	695
By-pass cable support—16 in. or under	Lin.ft	3	25.00	3.60	11.38	695
Service connections for gas pipe	Each	5	100.00	20.00	41.07	500
New C. I. H. and S. pipe—straight	Ton	9	180.00	50.00	99.82	360
New C. I. H. and S. pipe—specials	Ton	8	250.00	82.50	161.54	303
Changing H. P. F. S. pipe— 8 in.	Lin.ft.	2	11.00	2.00	5.33	550
Changing H. P. F. S. pipe—12 in.	Lin.ft.	2	14.00	3.00	6.42	467
Changing H. P. F. S. pipe—16 in.	Lin.ft.	2	15.50	4.00	7.25	388
Changing H. P. F. S. pipe—20 in.	Lin.ft.	1	24.00	5.00	13.00	480
Changing H. P. F. S. pipe—24 in.	Lin.ft.	1	10.00	6.00	8.00	167
New H. P. F. S. C. I. pipe—straight	Ton	2	150.00	80.00	138.33	188
New H. P. F. S. C. I. pipe—specials	Ton	2	300.00	160.00	241.67	188
Changing steam pipe— 6 in.	Lin.ft.	1	60.00	4.00	24.33	1,500
Changing steam pipe— 8-in.	Lin.ft.	1	70.00	6.00	28.67	1,165
Changing steam pipe—15 in.	Lin.ft.	1	80.00	10.00	36.00	800
Changing steam pipe—16 in.	Lin.ft.	1	90.00	10.00	39.67	900
Service connections for steam pipe	Each	1	425.00	150.00	258.33	283
New steel flg. welded steam pipe— 6 in.	Lin.ft.	1	12.00	4.00	6.75	300
New steel flg. welded steam pipe— 8 in.	Lin.ft.	1	15.00	5.00	8.67	300
New steel flg. welded steam pipe—15 in.	Lin.ft.	1	21.00	10.00	15.00	210
New steel flg. welded steam pipe—16 in.	Lin.ft.	1	23.00	12.00	16.83	192
Changing air pipe—6 in.	Lin.ft.	1	10.00	1.50	5.17	667
New air pipe—6 in.	Lin.ft.	1	6.00	1.75	3.25	342
Changing pneumatic mail tube—8 in.	Lin.ft.	1	6.00	4.00	5.33	150
Changing pneum. postal tel. tube—2½ in.	Lin.ft.	1	8.00	1.00	3.83	800
Changing pneum. West. Union tube—2½ in.	Lin.ft.	1	10.00	1.00	4.50	1,000
New pneum. postal tel. tubes—2½ in.	Lin.ft.	1	6.00	1.00	2.67	600
New pneum. mail tube—8 in.—straight	Lin.ft.	1	6.00	4.00	5.00	150
New pneum. mail tube—8 in.—curved	Lin.ft.	1	15.00	8.00	11.33	188
New pneum. West Union tube—2½ in.—S.and C.	Lin.ft.	1	6.00	1.00	2.67	600
Changing elec. ducts and conduits	Duct.ft.	6	1.00	.35	.62	286
Changing elec. ducts and cond.—2 in. W. S.	Lin.ft.	2	1.50	.50	1.03	500
Changing elec. ducts and cond.—2½ in. W. S.	Lin.ft.	4	5.00	.40	1.62	1,250
Changing elec. ducts and cond.—3 in. W. S.	Lin.ft.	4	6.00	.40	1.81	1,500
Changing elec. ducts and cond.—3½ in. W. S.	Lin.ft.	4	7.00	.60	2.18	1,167
Changing elec. ducts and cond.—4 in. V. S.	Lin.ft.	1	3.00	1.50	2.00	200
Changing elec. ducts and cond.—4½ in. W. S.	Lin.ft.	2	3.00	.60	1.79	500
Changing Edison conduit—2 in. W. S.	Lin.ft.	1	3.00	1.00	1.83	300
Changing Edison conduit—2½ in. W. S.	Lin.ft.	1	3.75	1.25	2.33	300
Changing Edison conduit—3 in. W. S.	Lin.ft.	1	4.00	1.50	2.92	256
Changing Edison conduit—3½ in. W. S.	Lin.ft.	1	4.50	1.75	3.50	257
Service connections for elec. ducts	Each	5	150.00	30.00	55.80	500
Changing wooden elec. ducts and cond.	Duct.ft.	1	.90	.40	.60	225
Changing fibre elec. ducts and cond.	Duct.ft.	3	1.00	.40	.72	250
Changing fibre elec. ducts and cond.—3 in.	Lin.ft.	2	2.00	.35	.86	573
Changing fibre elec. ducts and cond.—3½ in.	Lin.ft.	2	2.00	.40	1.02	500
Changing fibre elec. ducts and cond.—4 in.	Lin.ft	2	3.00	.45	1.26	667
Service boxes on relocated duct lines	Each	2	250.00	36.00	131.00	694
Junction boxes on relocated duct lines	Each	2	500.00	240.00	348.33	208
Junction boxes—additional	Each	2	840.00	300.00	473.33	280

Weekly Construction Market

CONCURRENT with the arrival of German steel in Galveston, Tex., is the influx of Belgian building brick at the Port of New York.

In the case of bars re-rolled from rails, the price at Dallas sagged, in one week, to the present level of $2.80 per 100 lb. as against $3.08 formerly. The sales were made on a direct-to-consumer basis. Limited shipments of foreign structural shapes also affected the market, probably causing the drop of 15c. per 100 lb. reported in that classification.

Belgian brick, however, did not have the effect of breaking the market. Prices still range from $19 to $20 per M., delivered at site of job in Manhattan. Scarcity, in the presence of heavy demand, probably accounts for the display of price strength in this market.

Domestic producers have recently been troubled with strikes in which the workers won their demands in most cases.

Imports of common brick into the customs district of New York, according to the Bureau of Foreign and Domestic Commerce, were 44,208,000 for the calendar year 1924, against 61,506,000 during 1923.

Inquiries sent out by *Engineering News-Record* to various points along the Atlantic seaboard and West as far as the Mississippi River, showed that the imported brick did not penetrate very far in any direction from New York.

Last year Belgium shipped 43 per cent of the brick received here from Europe; Germany, 39 per cent; Holland, 14 per cent, and Canada, 2 per cent. The rest came from Italy, England, Mexico and Spain.

	New York	Atlanta	Dallas	Chicago	Minneapolis	Denver	San Francisco	Seattle	Montreal
Steel Products									
Structural shapes, 100 lb.	$3.34	$3.90	—$4.00	$3.10	$3.35	$3.07½	$3.30	$3.35	$4.25
Structural rivets, 100 lb.	4.50	4.45	4.75	3.50	3.75	4.65	5.00	3.75	6.00
Reinforcing bars, ¾ in. up, 100 lb.	3.24	3.40	3.38	—2.60@3.00	3.25	3.62½	3.35	3.25	2.30
Steel pipe, black, 3½ to 6 in. lap, discount	48%	53.2%	—45%	56½%	54.25%	36%	39.2@51%	50%	59.49
Cast-iron pipe, 6 in. and over, ton	50.60@51.60	54.00	—54.00	47.70@48.20	53.00	62.00	52.00	53.00	55.00
Concreting Material									
Cement without bags, bbl.	2.50@2.60	2.40	2.05	2.20	2.42	2.84	2.31	2.65	1.80
Gravel, ¾ in., cu.yd.	1.75	1.90	2.38	2.75	1.65	1.90	2.15	1.50	1.25
Sand, cu.yd.	1.00	1.40	2.00	2.75	1.25	1.00	1.50	1.50	1.25
Crushed stone, ¾ in., cu.yd.	1.85	2.00	2.83	2.75	1.75	2.50	2.15	3.00	1.90
Miscellaneous									
Pine, 3x12 to 12x12, 20 ft. and under, M.ft.	59.00	34.00	56.00	29.00@39.00	38.75	36.25	27.00	23.00	60.00
Lime, finishing, hydrated, ton	18.20	22.50	20.00	20.00	25.50	24.00	22.00	24.00	21.00
Lime, common, lump, per bbl.	2.50@2.75	1.45	1.85	1.21	1.35	2.70	1.60	2.80	9.50
Common brick, delivered, 1,000	19@20	10.50	12.10	12.00	—13.50	12.00	15.00	15.00	17.50
Hollow building tile, 4x12x12, per block	Not used	.0888	.10	.06	.....	.085	.....	.10	.12
Hollow partition tile 4x12x12, per block	.1162	.0888	.10	.06	.07	.085	.108	.10	.10
Linseed oil, raw, 5 bbl. lots, gal.	—1.07	—1.13	1.30	1.23	—1.15	+1.31	1.14	1.12	1.25
Common Labor									
Common labor, union, hour	.75	.30	.....	.87½	.....	.50@.55	.55	.62½	.....
Common labor, non-union, hour	.....	.25	.30@.50	.75	.50@.55	.35@.50	.50	.50	.25@.35

Explanation of Prices—Prices are to contractors in carload lots unless other quantities are specified. Increases or decreases from previous quotations are indicated by + or — signs. For steel pipe, the prevailing discount from list price is given; 45-5% means a discount of 45 and 5 per cent.

New York quotations delivered, except sand, gravel and crushed stone, alongside dock; common lump lime, in 280-lb. bbl. net, and hydrated lime f.o.b. cars; tile "on trucks"; linseed oil and cast-iron pipe f.o.b.

Labor—Concrete laborers' rate, 93¾c.; building laborers, 75c.; excavating laborers, 50c. per hr.

Chicago quotes hydrated lime in 50-lb. bags; common lump lime per 180-lb. net. Lumber, sand, gravel and stone delivered on job.

Minneapolis quotes on fir instead of pine. Brick, sand and hollow tile delivered. Cement on cars. Gravel and crushed stone quoted at pit. We quote on brown lime per 180-lb. net; white is $1.70 for Kelly Island and $1.60 for Sheboygan. Common labor not organized.

THIS limited price list is published weekly for the purpose of giving current prices on the principal construction materials, and of noting important price changes on the less important materials. Moreover, only the chief cities are quoted.

Valuable suggestions on costs of work can be had by noting actual biddings as reported in our Construction News section.

The first issue of each month carries complete quotations for all construction materials and for the important cities. The last complete list will be found in the issue of June 4, the next on July 2.

Denver quotes on fir instead of pine. Cement "on tracks"; gravel and sand at pit; stone on cars; lime, brick, hollow tile and lumber on job. Tile price is at warehouse. Linseed oil, delivered in wooden bbl. Common lump lime per 180-lb. net.

Atlanta quotes sand, stone and gravel per ton instead of cu.yd. Common lump lime per 180-lb. net.

Dallas quotes lime per 180-lb. bbl. Steel, cement, cast-iron pipe and crushed stone f.o.b. cars, other materials delivered.

San Francisco quotes on Heath tile, size 5½ x 8 x 11½. Prices are all f.o.b. warehouses except C. I. pipe, which is mill price plus freight to railway depot at any terminal. Common lump lime per 180-lb. net. Lumber prices are to dealers in yards at San Francisco, for No. 1 fir, common.

Seattle quotes on Douglas fir (delivered) instead of pine. Lump finishing lime per 180-lb. net. Brick and hollow building tile delivered. Hydrated lime in paper sacks. Sand and gravel at bunkers.

Montreal quotes on pine lumber. Sand, stone, gravel and lump lime per ton. Stone and tile are delivered; sand, gravel, lime and cement on siding; brick f.o.b. plant; steel and pipe at warehouse. Hollow tile per ft. Cement price is in Canadian funds (the Canadian dollar stands at par). Bag charge is 80c. per bbl. Discount of 10c. per bbl. for payment within 20 days from date of shipment. Steel pipe per 100 ft. net; 3½-in., $59.49.

Car Loadings Portend Gain, Etc.

(*Concluded from p. 1081*)

an increase over the previous two years. Our esimate necessarily deals not with the tonnage to be moved but with the carloads to be handled and with that as a basis we believe our figures are conservative."

On June 1, 1925

E. N.-R. Construction Cost Index Number 204.60

E. N.-R. Construction Volume Index Number 209

For Explanation and Details of Indexes Since 1913 See the First Issue of Every Month

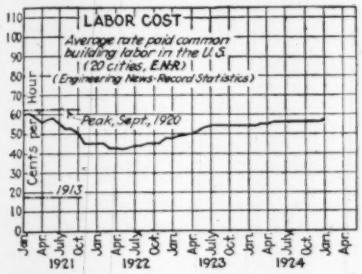
CONSTRUCTION NEWS

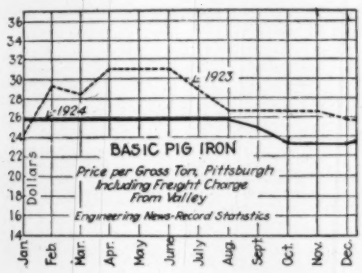
Engineering News-Record, January 1, 1925

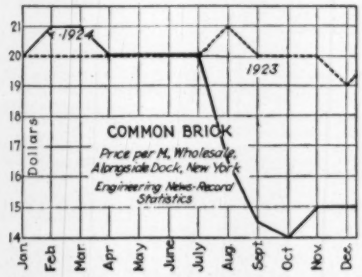
The Construction Barometer

Steady Gain in Industrial Lettings During Past Three Weeks

THERE has been a steady increase in both number and value of lettings for industrial construction since the week of Dec. 11. This is quite true of construction generally, in both private and public work. The rise in cost of construction, started in December, will probably continue throughout the first half of 1925. Much of the work now in the contract stage was deferred until recently in anticipation of further decline in cost, since that factor followed a downward course from May to November, 1924. The advance in cost since Dec. 1 has not affected such basic materials as cement, which shows a decline this week of 10c. per bbl. throughout the West; neither has the prevalence of plenty of common laborers been able to keep down the rising tendency. Steel and lumber show greatest firmness.







Engineering News-Record Statistics

Minimum on waterworks and excavations $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Dec. 11	$7,782,000	$13,315,000	$21,097,000
Dec. 18	11,664,000	30,537,000	42,201,000
Dec. 25	14,120,000	32,806,000	46,926,000
3 weeks	$33,566,000	$76,658,000	$110,224,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

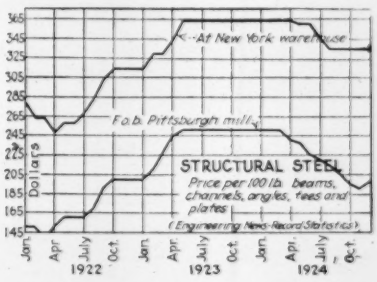
Week Ended	Commercial No.	Commercial Public Thousand	Commercial No.	Commercial Private Thousand	Industrial No.	Industrial Thousand
Dec. 11	8	$2,443	24	$8,285	19	$1,560
Dec. 18	9	1,207	41	20,927	25	7,918
Dec. 25	9	3,024	31	19,531	27	12,945
3 weeks	26	$6,674	96	$48,743	71	$22,423

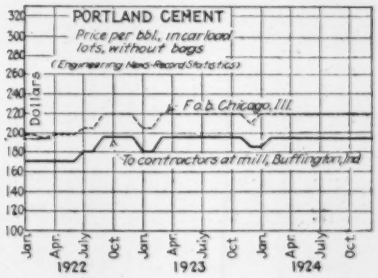
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

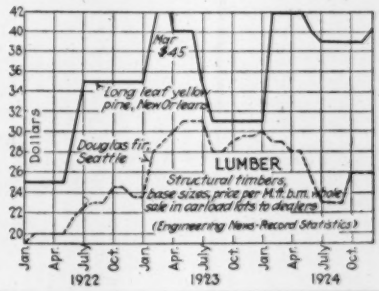
Week Ended	Private	Commercial Buildings	Streets and Roads	Waterworks and Sewers	All Public
Dec. 11	25	34	44	19	144
Dec. 18	31	44	54	21	163
Dec. 25	26	38	51	20	141

STEEL FIRMER AT MILL — CEMENT DOWN IN WEST — COMMON LABOR PLENTIFUL

	Quoted on Jan. 1 at	Last Price Change Was	On
Structurals, Pittsburgh, 100 lb.	$2.10	2.00 @2.10	Dec. 25
Cement, Chi., net bbl.	2.10	2.20	Dec. 25
Pine, N. Y., M. ft.	58.00	55.00	Dec. 11
Fir, San Fran., M. ft.	29.00	31.00	Oct. 30
Common labor, hr.	.55¼	.56½	Dec. 25







Waterworks

PROPOSED WORK

Mass., Brookline—Plans election $400,000 bonds to enter Metropolitan Water Dist., and for water supply improvements. H. A. Varney, city engr.

Tenn., Dickson—See "Sewers."

Tenn., Knoxville—Voted $2,500,000 bonds, waterworks improvements. Noted Nov. 20.

Tenn., Nashville — Plans new boiler system and force mains for pumping station. $500,000. H. E. House, mayor. Noted Nov. 20.

Wis., Milwaukee—City making plans rebuilding North Point Pumping Station, brick and concrete. $200,000. J. Schwada, City Hall, engr.

Ia., Greenwood—Election Dec. 29, $364,500 bonds for waterworks, incl. 300,000 gal. filtration plant, deep well, etc. B. N. Maxwell, city clk.

Neb., Bellevue—Election Dec. 31, $27,300 bonds for water system.

Neb., Ruskin—Election Dec. 30, $20,000 bonds for water system.

Tex., Celina—J. E. Ousley, mayor, soon takes bids complete waterworks. $40,000. Elrod Eng. Co., 3124 Main St., Dallas, engrs. Noted Oct. 30.

Tex., Donna—Election soon $75,000 bonds, waterworks and sewerage systems. W. Whigham, mayor.

Tex., Galveston—J. H. Kelly, city secy., takes bids about Feb. 1, 8 m.g. reservoir. $100,000. C. A. Halt, c/o City Hall, engr.

Tex., Lubbock — Voted $75,000 bonds waterworks improvements and extensions. F. R. Friend, mayor. Noted Dec. 11.

Tex., Paducah — J. W. Carroll, mayor, takes bids about Jan. 25, waterworks, paving various streets, etc. $190,000. Gantt-Baker & Co., 1st Natl. Bank Bldg., Oklahoma City, Okla., engrs. Noted Nov. 27.

Tex., Roby — Election Dec. 31, $40,000 bonds waterworks improvements. J. Encke, city secy.

Tex., Slaton—H. C. McGee, city secy., soon takes bids new waterworks and sewers. $30,000. Gantt-Baker & Co., 1st Natl. Bank Bldg., Oklahoma City, Okla., engrs.

Okla., Tulsa—Plans election soon $650,000 bonds for waterworks. $350,000 to pay for work done on Spavinaw project, and balance for additional improvements. Holway Eng. Co., 505 Wright Bldg., Tulsa, engrs.

Calif., Burlingame — Plans additional 6 and 8 in. mains and approximately 25 hydrants in various streets. $25,000 appropriated.

Que., Hull—Making plans new c.i. mains in various streets. $75,000. T. Lanctot, city engr.

Ont., Capreol — Election Jan. 1, $82,000 bonds for waterworks. A. Brundage, Town Hall, engr.

Waterworks (Continued)

Ont., Chatham—See "Streets & Roads."

Ont., Toronto—Making plans 2,800 ft. 30 in. c.i. mains in Huron St. from Phoebe to Wilcox Sts. $30,000. R. C. Harris, city engr.

Ont., Toronto—York Twp. making plans 3½ mi. 6 in. c. i. mains in Rountree Ave., Jane St., and Old Weston and Times Rds. $30,000. F. B. Goldike, 40 Jarvis St., engr.

BIDS DESIRED

La., Bunkie—Jan. 13, by E. H. Talifero, mayor, and Bd. Alderman, 1,975 ft. 8 in., and 3,350 ft. 6 in. c. i. mains, castings, etc., also constructing brick pumping station and installing pumps.

Mich., Jackson—Jan. 24, by City Clerk, power plant piping and erection of auxiliary equipment for new waterworks pumping station. J. E. Whittaker, city mgr., adv. E. N.-R. Jan. 1.

Wis., Madison—Jan. 9 (extended date), at office H. C. Buser, city clerk, 18,222 lin. ft. 30 in. c.i. mains. City to furnish pipe. Noted Dec. 25.

Wis., Milwaukee—Jan. 5, at office Central Bd. of Purchases, D. W. Hoan, chn., two hundred 1 in., three thousand each ⅝ and ¾ in. meter cocks, four hundred 1 in., six thousand each ⅝ and ¾ in. meter couplings, one thousand ⅝ in. and one thousand five hundred ¾ in. corporation cocks, one thousand five hundred 1 in. and one thousand ¾ in. curb cocks, all foregoing f.o.b. Milwaukee; also 40,000 lbs. chemically pure anhydrous liquid chlorine, to Water Dept.

Wis., Milwaukee—Jan. 9, by Central Bd. Purchase, D. W. Hoan, chn., 200 fire hydrants, to Water Dept.

S. D., Faulkton—Jan. 19, for 1350 ft. well, 6- to 11-in. diam., also heavy duty pumping equipment, and 3,150 ft. 4- to 6-in. water-main extension. Dakota Eng. Co., Mitchell, engrs.

Wash., Port Angeles—Jan. 21, by City Comn., 37,000 ft. 20 to 24 in. steel or wood stave pipe line to reservoir, Morse Creek dam and 6 m.g. concrete reservoir or distribution water system. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Nov. 20.

BIDS RECEIVED

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Dec. 22, from S. Gallucci, Railroad Ave., Corona, mains in Mt. Olivet and Otis Aves., etc., $6,910, Hylatt, Lewis and Prospect Aves., etc., $18,000; from F. Hanratty, 605 Beach Terrace, New York, $14,940. Noted Dec. 18.

N. Y., New York — N. J. Hayes comr. Water Supply, Gas & Electricity, Municipal Bldg., Dec. 23, mains in Barnes, Barker Aves., etc., from Knight & DeMicco, Inc., 448 East Tremont Ave., $15,860. Noted Dec. 18.

CONTRACTS AWARDED

Md., Baltimore—Mayor and City Council, City Hall, valves and hydrants for Water Dept., to A. P. Smith Mfg. Co., Norman St., East Orange, N. J., $150,823. Noted Dec. 18.

Ky., Newport — New filtration plant at reservoirs at St. Thomas, to C. T. McFarlan, Kansas City, $109,800. Engrs. est. $100,000. Noted Dec. 18.

Ill., Oak Park—For 5 m.g. rein.-con. reservoir, Lombard Ave. and Lake St., to W. J. Newman & Co., 21 North Curtis St., Chicago, $129,000. Noted Dec. 25.

Colo., Denver—Pumping equipment for Capitol Hill Station, to De Laval Steam Turbine Co., North Clinton St., Trenton, N. J., $28,820; for Ashland Station, to Le Courtenay Co., 5 Main St., Newark, N. J., $6,355.

Ont., Ford—Essex Border Utilities Comn., constructing tunnel to Merlo, Merlo & Ray, Ford City, $22,727; steel piping, to Horton Steel Co., Bridgeburg, $10,228; laying 48 in. intake, to Considine Reid Co., Ferry Docks, Windsor, $18,409. Engrs. est. $60,000.

Sewers

PROPOSED WORK

Mass., Brighton (Boston, P. O.)—Dept Pub. Wks., City Hall, Boston, plans sewerage system in Everett and Arthur Sts., here. $25,000. J. A. Rourke, Boston, comr.

Md., Baltimore—Mayor and City Council making plans 20 in. main in Gwynn Falls Parkway from Tioga and Liberty Heights to Poplar Grove St. and Beech Ave., $175,000; 36 in. second zone feeder main in Mondawnin Ave. extension from Reistertown Rd. to Gwynn Falls Parkway, $200,000; 16 in. main in Cook's Kane from the 12 in. main in Forest Ave. to Edmondson Ave., $175,000; 36 in. feeder main in North Ave. from Bway. to Gay St., $200,000. V. B. Siems, City Hall, water engr.

Tenn., Dickson—Plans sewerage system and waterworks extensions.

O., Steubenville—Plans sewers in Lincoln Sewer Dist. $56,201. Barston & McCurdy, 321 Ohio Bldg., Akron, engrs.

Ill., East St. Louis—Plans sewers in various streets. $750,000. W. McK. Brown, City Hall, engr.

Neb., Columbus—Voted $60,000 bonds, for 3 sanitary sewers.

Mo., St. Louis — Making preliminary plans sanitary sewer in Harlem Creek Dist. Sewer 16, 8- to 27- in. vitr. clay, brick or segmental block pipe. $38,500. W. W. Horner, 300 City Hall, engr.

Mo., Salem — Election Dec. 30, $90,000 bonds water works and sewers. Alexander Eng. Co., 517 Woodruff Bldg., Springfield, engrs.

Tex., Donna—See "Waterworks."

Tex., Lubbock—Voted $25,000 bonds, extending sanitary sewerage system. F. R. Friend, mayor. Noted Dec. 11.

Tex., Slaton—See "Waterworks."

Calif., Hermosa Beach—Election Jan. 20, $200,000 bonds, for sewerage system.

Calif., Los Angeles — South Bay Cities Sanitation Dist., 700 Hall of Records Bldg., takes bids in January, main trunk line sewer, 78,000 cu.yd. excav., 28,660 lin.ft. 24, 27 and 30 in. vitr. or rein.-con. pipe, 1,000 lin.ft. 6 in. drain tile, replace 1,000 sq.yd. macadam paving, 1,370 cu.yd. concrete paving, 500 lin.ft. concrete and 1,000 sq.ft. concrete sidewalks, etc. $462,800. J. E. Rockhold, 700 Hall of Records Bldg., Los Angeles, engr.

Calif., Ripon—Ripon Sanitary Dist. takes bids about Jan. 22, sewerage system. $30,000 available. J. S. Bates, Rowell Bldg., Fresno, engr. Noted Aug. 7.

Que., Hull—Making plans clay sewers in various streets. $45,000. T. Lanctot, city engr.

Ont., Chatham—See "Streets & Roads."

Ont., Elmira — Making plans activated sludge sewage disposal plant. $25,000. H. Johnston, 63 Frederick St., Kitchener, engr.

Ont., Toronto—Making plans 8 in. vitr. tile, concrete and brick trunk interceptor sewers in northern section, covering about 6 square miles. $10,000,000. R. C. Harris, city engr.

Ont., Toronto—Soon takes bids 8 and 12 in. vitr. tile sanitary sewers in Queens St. E. $22,000, 2 lanes $3,100, Kew Beach Crescent $10,900. R. K. Harris, city engr.

B. C., Vancouver—Voted $200,000 bonds, sewers in various streets. C. Brackenridge, city engr.

BIDS DESIRED

La., Amite City—Jan. 21, by B. L. Goodman, mayor, and Bd. Aldermen, sanitary sewerage system, and septic tank. M. L. Culley, Jackson, Miss., engr.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Dec. 22, sewers in Sutter and 79th Aves., etc., from Welsh Bros. Contg. Co., 32 Queens St., Astoria, (A) $163,274, from A. Paino, 2016 East 14th St., Brooklyn, (B) $148,956; sewer in Moore St., from Green Contg. Co., 734 Vernon Ave., Astoria, $5,720. Noted Dec. 18.

Md., Baltimore—Mayor and City Council, 400,000 lbs. manhole, sewer inlet and similar iron castings to Highways Eng. Dept., from Amer. Shoe Brake & Fdry. Co., Fulton Sta., $11,556. Noted Dec. 18.

Calif., Glendale—From P. S. Tomich, 1211 Douglas St., Los Angeles, sewers in Palmer Ave., Adams St., etc., 6 in. pipe at $0.95 per ft., 8 in. pipe $1.10, 43 manholes $0.70 each, 2 flush tanks $150 each, total approximately $28,156.

Calif., Los Angeles — See "Streets and Roads."

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, boro. pres., Boro Hall, repairing sewers in Hoyt St., to Manmill Constr. Co., 2035 Douglass St. $8,446; repairing rakes, screens, pumps, etc., in Caisson 2, West 12th St. and Neptune Ave., to C. L. Riker, 40 Vista Pl., Dongan Hill, $5,980. Noted Dec. 25.

Pa., Phila.—Dept. Pub. Wks., Bureau Surveys, to J. J. McHugh, 1617 Race St., sewers in Green Lane and Fairmont Park, $5,147, Clearview St. $8,728; to Nelly Bros. & Bissell, Inc., Oxford and Wakeling Sts., Wisshickon Low Level intercepting sewer, $114,997; to E. F. Bennis, 641 Chelton Ave., sewers in Boyer St. $8,664, Sharpnock St. $11,668; to Butler & Orlando, 52nd and Webster Sts., Buist Ave. $4,792, Irving St. $3,920; to A. De Sandro & Son, 3906 North 5th St., Napa St. $5,992, Torresdale Ave. $5,522; to J. J. Lombardi, 601 Lincoln Bldg., Wagner Ave. $6,150; to V. J. Perna, 752 South 10th St., Warnock St. $2,142. Noted Dec. 18.

Md., Baltimore—Mayor and City Council, 1,350 ft. 48 and 54 in. rein.-con. c[illegible], paralleled by 8 in. sanitary sewer, in [illegible]tin streets and rights-of-way secured [illegible] unsecured in Dist. H-1, Storm Water C[illegible] 79, to Aiello Constr. Co., Knickerb[illegible] Bldg., $25,287. Noted Dec. 11.

Tex., New Braunfels—F. G. Blum[illegible], mayor, brick and concrete sewerage [illegible]posal plant, to L. L. Winans, 2127 H[illegible] St., Ft. Worth, $26,000; sewerage sy[illegible], to Kirkwood & Wharton, 231 West [illegible]merce St., San Antonio, $48,474. N[illegible] Nov. 27.

Calif., Laguna Beach—Director La[illegible] Sanitary Dist., to A. Giebisch, Virgil W[illegible], Long Beach, sewer lateral system at $[illegible]668, pumping station $9,809, disposal [illegible] $11,085, ocean outfall $4,200. N[illegible] Aug. 14.

Que., Grand Mere—Will lay 2,000 ft., main sewer in LaRoche St. Jacques, St. Pierre and Angus Sts., by day labor. $30,000. J. A. Bernier, Grand Mere, engr.

Ont., Toronto—For 4,000 ft. brick and concrete interceptor sewer serving Parkdale and Exhibition area, to Russell Constr. Co., Harbor Comn. Bldg., $43,884.

Ont., Toronto—York Twp. will build ¾ mi. 8 in. and up vitr. tile sewers, by day labor. $75,000. F. B. Goldike, 40 Jarvis St., engr.

Waste Disposal

PROPOSED WORK

Ont., Oshawa—Plans concrete and brick incinerator. $30,000-$50,000. W. C. Smith, town engr.

BIDS DESIRED

Calif., Los Angeles—Jan. 20, by Bd. Pub. Wks., H. B. Ferris, secy., 200 ton incinerator. Noted April 17.

Bridges

PROPOSED WORK

Mass., Boston — Pub. Wks. Dept. plans new bridge over Boston & Albany R.R. tracks, on Tremont St. $100,000. J. A. Rourke, comr.

Mass., Lynn—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, plans bridge across deep ravine on Great Woods Rd., here. J. R. Rablin, engr.

Fla., Bradentown — Manatee Co. plans bridge over Long Boat Inlet. $100,000. F. K. Webb, Bradentown, c/o R. H. Roesch, co. clk., engr.

Tennessee—See "Streets and Roads."

Tenn., Elizabethton—State Dept. Hys. & Pub. Wks., Nashville, plans 150 ft. rein.-con. bridge over Laurel Fork, Carter Co., near here. J. G. Creveling, highway engr.

Ohio—See "Streets and Roads."

Wisconsin — Various counties appropriated $661,050 for bridge work during 1925.

Ia., Nevada—Story Co., three 70 x 24 ft. pony truss spans over Squaw Creek, to Wickes Eng. & Constr. Co., 1441 Bluff St., Des Moines, $27,474. Noted Dec. 11.

Tex., Austin—See "Streets and Roads."

Tex., Palestine — Anderson Co. making plans concrete and steel bridge across Trinity River at Bonners Ferry. $40,000. E. W. Davis, co. engr.

Tex., Pearsall—See "Streets and Roads."

BIDS DESIRED

N. Y., New York—Jan. 20, by W. W. Mills, comr. Plants & Structures Municipal Bldg., constructing Roosevelt Ave. Bridge over Flushing River.

Virginia—See "Streets and Roads."

Louisiana—Feb. 3, by State Hy. Comn., Reymond Bldg., Baton Rouge, constructing Interstate Bridge incl. 140 ft. steel riveted high truss span, on concrete piers, three 19 ft. creosoted timber approach spans, etc. over East Pearl River between St. Tammany Parish, La., and Hancock Co., Miss., on Federal Aid Project 175. W. B. Roberts, ch. engr.

S. D., Forest City—Jan. 27, by State Hy. Comn., Pierre. Missouri River Bridge, 1,770 ft. long, 2,500,000 lb. structural steel, 250,000 lb. rein.-con. beams and steel piling, 130,000 lb. reinforcing, 100,000 steel tubes, 1,000 cu.yd. structural and 450 cu.yd. rock excav., here. J. E. Kirkham, Pierre, bridge engr. This corrects report in Dec. 18 issue.

Texas—See "Streets and Roads."

Oklahoma—Jan. 6, by State Hy. Dept., Oklahoma City, one 96 ft. truss span and two 20 ft. I-beam approaches over Washita River at Anadarko, Caddo Co., $30,000; 18 span 440 ft. steel and concrete bridge at McBride, Cherokee Co., $38,000; 20 span 492 ft. steel and concrete bridge at Mangum, Greer Co., $44,000. J. M. Page, highway engr.

Bridges (Continued)

Que., **St. Irene**—Dept. Pub. Wks., Quebec, taking bids 1 span 76 ft. rein.-con. arch bridge, here, Charalevoix Co. $30,000. I. E. Vallee, Quebec, engr.

BIDS RECEIVED

La., **New Orleans** — Dept. Pub. Finance Office, Purch. Div., Room 24, City Hall, single leaf bascule bridge over Navigation Canal, South Carrolton Ave., **(A)** substructure **(B)** superstructure from Lake Side Bridge & Steel Co., North Milwaukee, Wis., **(A)** $69,000; from General Constr. Co., New Orleans, **(B)** $73,000. Noted Oct. 30.

Tex., Seymour—See "Streets and Roads."

Tex., Vernon—See "Streets and Roads."

CONTRACTS AWARDED

Pennsylvania — Delaware River Bridge Joint Comn., 806 Widener Bldg., Phila., Camden approach, Contr. 20, to A. O'Neill, 23 Spring Garden St., Phila., $408,161. Noted Dec. 25.

Pa., Pittsburgh — Alleghany Co., superstructures for 6th, 7th and 9th St. bridges over Alleghany River, to Amer. Bridge Co., Frick Bldg., $2,531,706. Noted Oct. 16.

Ala., Decatur—Limestone-Morgan Bridge Co., concrete and steel bridge over Tennessee River, to Nashville Bridge Co., Shelby Ave., approximately $540,000. Hewitt Co., Spartanburg, S. C., finances project.

Ohio—See "Streets and Roads."

Kan., Eldorado — Butler Co., bridge on Augusta Rd., Federal Aid Project 205-F, to C. A. Clarke, 737 North Topeka St., Wichita, $35,657. Noted Dec. 4.

Kan., Washington — Washington Co., Bridges 1, 2, 3 and 4, on Federal Aid Project 211, to Interstate Concrete Co., Fairbury, Nebr., $24,863; drainage structures on Sects. A, B and C, also Bridge 6, to Wayland Bridge Co., Washington, $18,486 and $5,628 respectively; Bridge 5, to A. Luebken, Hanover, $4,006. Noted Nov. 13.

Tex., Jefferson—See "Streets and Roads."

Oklahoma — State Hy. Dept., Oklahoma City, three 66 ft., steel and concrete span bridge over Brushy Creek, 18,000 cu.yd. earth approach and fill, in Pittsburg Co., to Gaines, Yoekum & Mackey, 412 East Park St., Oklahoma City, $64,000. Engrs. est. $76,300.

Dams

PROPOSED WORK

Tex., Cotulla—See "Excavation, Drainage, Irrigation, Levees."

Quebec—Quebec Running Water Comn., Montreal, plans concrete dam at Lake Catonga, 75 miles south of Amos. $1,000,000. J. O. Lefevre, 59 Notre Dame St., Montreal, engr.

Que., Coaticook—See "Unclassified."

Railways

PROPOSED WORK

Ontario — Toronto, Hamilton & Buffalo R.R., Hamilton, plans 8 mi. spur line from Welland to Port Colborne. $150,000. R. L. Latham, ch. engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Ill., Sycamore — Coon Creek D. D., De Kalb Co., making preliminary plans cleaning out 3 mi. old channel, 15,000 cu.yd. excav., building outlets of tile drains with concrete walls and drop basins, clearing trees on 3 mi. ditch, retaining walls, etc. $25,000. W. N. Hay, Sycamore, engr.

Ia., Council Bluffs — Pottawattomie Co., Council Bluffs, and Harrison Co. (Logan) rejected bids clearing Willow Creek, 83,000 cu.yd. excav.

Kan., Argentine—Kaw Valley D. D., c/o H. T. Zimmer, secy., making plans raising levee between 12th St. and West Argentine Bridges, 8 ft. filling dike between 5th and Turkey Creek. $250,000. Will co-operate with Sante Fe R.R. Co.

Neb., Columbus — Oconee D.D. making plans approximately 3 mi. ditches, 122,000 cu.yd. excav., etc. $40,000. F. Gottschalk, Columbus, engr.

Neb., Hershey—Platte Valley D.D., c/o I. E. Ware, secy., Hershey, postponed taking bids indefinitely, constructing 6.25 mi. irrigation ditches and laterals.

Mo., New Madrid—New Madrid D.D. 38, takes bids in February drainage ditches, levees, etc., to protect about 33,000 acres in New Madrid Co. $300,000. Morgan Eng. Co., 620 Goodwyn Institute, Memphis, Tenn., engrs.

Tex., Cotulla—Voted $75,000 bonds, preliminary work and surveys for daming Nueces River for irrigation. Engineering Dept. of International Great Northern Ry., Palestine, assisting in preliminary work. Nagle White & Rollins, Courthouse, Dallas, tentatively retained as engineers. Noted Jan. 21.

BIDS DESIRED

Ia., Council Bluffs — Jan. 15, by G. B. Sparks, aud. Pottawattamie Co., cleaning out Willow Creek D. D., Harrison and Pottawattamie Counties, 93,000 cu.yd. excav. Former bids rejected. $15,000. Noted Dec. 18.

CONTRACTS AWARDED

Fla., St. Petersburg—Vinoy Park Hotel Co., cutting channel and filling 600,000 sq. ft. land, to Atlantic Gulf & Pacific Co., 13 Park Row, New York City, $69,000.

Calif., Merced—Merced Irrigation Dist., made plans 100,000 to 150,000 cu.yd. excav. for canal. R. V. Meikle, ch. engr.

Calif., Meridian—Reclamation Dist. 70, Sutter Co., made plans 1,800 lin.ft. levee, 14,000 cu.yd. floating clamshell dredge work. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr.

Calif., Montague—Montague Irrigation Dist., c/o G. W. Dwinnell, secy., plans earthfill storage dam, 77 ft. high, 2,000 ft. long on crest, 552,000 cu.yd. earth work, canals, etc., to irrigate 22,000 acres. To exceed $1,000,000.

Streets and Roads

PROPOSED WORK

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, plans parkway from Newburyport Turnpike at Walnut St., past Breeds Pond Reservoir to boundry reservation near Lynnwood St., in Lynn. $471,000. J. R. Rablin, comr.

Mass., Boston—Plans widening Beverly St. near Cross St. $25,000. J. F. Sullivan, Street Laying Out Dept., secy.

Mass., Boston—Plans widening Commercial St. from North End Beach to Keany Sq. $50,000. F. H. Fay, City Planning Bd., chn.

Mass., Lynn—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, plans 47,000 ft. highway from Newburyport Turnpike along Waldon and Great Woods Rds., 20 ft. $335,000. J. R. Rablin, 1 Ashburton Pl., Boston, engr.

Mass., Quincy (Boston, P. O.) — State, City and Norfolk Co., plan highway from East Squantum and Dorchester Sts. to Shoreham St. $50,000. W. F. Williams, comr. Dept. Pub. Wks., Boston.

Mass., Watertown — Bd. Selectmen plan widening Main and Galen Sts. $25,000.

Md., Easton—Making plans concrete paving West St., Brookletts and August Aves. $50,000. Address City Engineer.

Fla., Bradentown—Manatee Co. election Jan. 14, constructing and brick or concrete paving 5.54 mi. Panish-Polk Co. Rd., $112,000; 37.7 mi. Bradentown-Arcadia Rd., $533,000; 23 mi. Parrish-Wauchula Rd., $430,000; Bradentown-Palmetto Bridge Rd., $100,000; 6.25 mi. Ellenton-Gillette Rd., $110,000; 7.25 mi. Rangeline Rd. and Rubonia cut-off, $115,000. R. H. Roesch, co. clk.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, soon takes bids grading several over 20 ft. span rein.-con. bridges, and surfacing, probably gravel or chert, 7 mi. Savannah-Wayne Co. line Rd., 16 ft., Hardin Co.; probably gravel or limestone surfacing 19 mi. Decatur-Bradley Co. line Rd., 16 ft., Meigs Co.; also grading, bridging, etc., 7 mi. Forbus-Kentucky State Line Rd., 16 ft., Pickett Co. J. G. Creveling, highway comr. Noted Oct. 9.

Tennessee—State Hy. Comn., Nashville, making surveys improving 13 mi. Milan-Weakley Co. line Rd., 18 ft., Gibson Co. J. G. Creveling, highway comr.

O., Youngstown — City plans improving Elberon Ave. $40,000, Gertrude Ave. $40,000, Evergreen Ave. $40,000, Dale Ave. $25,000, McHenry Ave. $35,000, Stratmore Ave. $35,000, West LaClede Ave. $40,000, La Clede St. $25,000-$35,000, and Water St. $25,000-$30,000. G. T. Turner, city engr.

Mich., Escanaba — C. E. Anderson, city clk., takes bids in spring paving 1st Ave. N., 4th St., 12th Ave. N., 5th Ave. S., Stephenson and Washington Aves.; resurfacing 2nd Ave. S., 10th St., Ave. N., West Ludington St., 15th St. S., 4th, 5th, 8th and 12th Sts.

Mich., Iron Mountain — Plans paving 65 streets. H. C. Lindholm, city clk.

Ill., DeKalb—Making preliminary plans grading, surfacing, etc. various streets. 7,000 sq.yd. Warrenite bitulithic over old brick and macadam paving. W. N. Hay, city engr.

Ill., East St. Louis—Takes bids in January hardsurfacing 4 mi. St. Clair Ave., 36 ft.; rein.-con. surfacing 22,730 sq.yd. Missouri Ave., etc.; also plans paving 22 projects during 1925, $1,500,000. W. McK. Brown, City Hall, engr.

Ill., Sycamore—Making preliminary plans and takes bids probably in February, grading, concrete curbing, guttering and concrete paving 40,000 sq.yd. various streets. $160,000. W. N. Hay, Sycamore, engr.

Wisconsin—Rusk Co. appropriated $27,685 for county and state road work during 1925. D. J. Summerville, comr.

Wisconsin—Various counties appropriated $5,917,684 for street and road work during 1925.

Wis., Fort Atkinson—City plans paving several miles various streets during 1925. To exceed $25,000. H. H. Smith, city clk. Engineer not selected.

Wis., Green Bay — W. Kerr, city clk., making plans paving 40,000 sq.yd. Alart, Cass, Cedar, Eliza, Jefferson, Quincy, Roosevelt, Stuart, St. Clair and St. George Sts. A. E. Kringel, City Hall, engr.

Wis., Manitowoc—Making plans paving 80,000 sq.yd. New York Ave., Marshall and South 14th Sts., various types, incl. concrete. F. Alter, City Hall, engr.

Wis., Port Washington — Ozaukee Co. plans concrete surfacing 1,200 lin.ft. East Valley and Washington Sts. in Port Washington; Wauheka-Randon Lake Rd., $22,350; Doyles-West Bend Rd., $18,300; Cedarburg-Wauheka Rd. $16,675; County Trunk K in Port Washington, Saukville, Belgium and Fredonia Twps. $8,200, also road in Mequon Twp., $4,600. W. J. Ubbink, Madison, highway comr.

Wis., Racine — Racine Co. takes bids in spring, concrete surfacing 4.5 mi. New Minister Rd. south of Burlington, and 3 mi. from Burlington east toward Durand, 18 ft. W. Bechthold, Madison, highway comr.

Wis., Waukesha—Waukesha Co. appropriated $101,283 for state and county road work during 1925. C. J. Hahn, Waukesha, comr.

Ia., Maquoketa—Postponed letting bids which were to be opened Dec. 16, paving, etc. 20,500 sq.yd. various streets. Will readvertise. $50,000. J. G. Thorne, Clinton, engr. Noted Dec. 4.

S. D., Vermilion — Plans paving 3 mi. various streets. $100,000. C. I. Vaughn, city clk.

Mo., Clayton—St. Louis Co. plans election in spring, $5,000,000 bonds paving and reconstructing main roads and laterals. R. Jablonsky, Courthouse, engr.

Mo., Farmington—Takes bids in January, grading, curbing, guttering and paving 15,000 sq.yd. various streets. $40,000 upwards. C. A. Haskins, 517 Finance Bldg., Kansas City, engr.

Mo., Maryville—Preliminary plans grading, curbing, guttering and hard surfacing 12 or 32 blocks various streets. E. T. Archer & Co., 609 New England Bldg., Kansas City, engrs.

Mo., St. Louis — Making preliminary plans grading and concrete or brick on concrete paving alleys in city Blocks 2643, 2906, 2925, 2965, 2968, 3033, 3390, 3391, 3392, 4020-S, 4098-S, 5012-W, 5280, 5242, 5481, 5535, 5546 and 5661. $68,700-$99,380. W. W. Horner, 300 City Hall, engr.

Tex., Austin—Travis Co. plans grading, bituminous macadam surfacing and bridging 9 mi. State Highway 20, Manor Rd., 18 ft. $278,000. O. Leonard, Box, 256, engr.

Tex., Austin—Travis Co. making plans bituminous macadam surfacing 5.7 mi. State Highway 2, Round Rock Rd., 18 ft. $116,600. O. Leonard, Box 256, co. engr.

Tex., Lubbock — Voted $125,000 bonds permanent street paving. F. R. Friend, mayor.

Tex., Paducah—See "Waterworks."

Tex., Pearsall—Frio Co. takes new bids by Jan. 15, grading, gravel surfacing and bridging 14.8 mi. State Highway 89, Dilley-Eagle Pass Rd. $190,000. Former bids rejected. R. E. Killmer, Pearsall, engr. Noted Dec. 18.

Tex., Post City—Election Jan. 6, $50,000 bonds paving various streets. R. N. Smith, city secy.

Tex., San Antonio—Making plans permanent paving, rock base and asphalt topping 1 mi. Guadalupe St., 60 ft. $70,000. I. Ewig, city engr.

Tex., Snyder—Voted $50,000 bonds, street paving and improvements. A. C. Pruitt, city secy.

Okla., Aurora—Plans paving 25,000 yd. various streets. Alexander Eng. Co., 517 Woodruff Bldg., Springfield, Mo., engr.

Okla., Hobart—Making preliminary plans grading, curbing and concrete paving 7,100 sq.yd. Kiowa and Kickapoo Sts. $30,000. J. G. Huie, Hobart, engr.

Okla., Pauls Valley—Plans grading and surfacing 14 blocks Cherry and Pecan Sts., 14,300 sq.yd. gravel. $30,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Ont., Chatham — Plans paving work, sewers, water mains, etc., in various streets. $50,000. A. Fuller, city engr.

Streets and Roads (Continued)

Okla., Shidler—Making preliminary plans grading, concrete curbing, and vitr. brick paving 5,600 sq.yd. Cosden Ave. $28,000. S. Turner, Shidler, engr.

Wash., Seattle—King Co. plans paving Des Moines-Kent Rd. $85,000; 16th Ave. S. W.-Lake Burien Rd. $76,650; Auburn South Rd. $100,000; Greenwood Ave. $71,786; 85th St. from North Trunk Rd. to 15th St. N. W. $50,000; 10th Ave. N. E., extension $37,500. T. R. Beeman, co. engr. Noted Nov. 6.

Calif., Los Angeles — Los Angeles Co. takes bids about Jan. 7, improving 7,772 ft. Hunts Crossing Rd., Impvt. Dist. 28, 4,001 cu.yd. excav., 17,271 sq.yd. asphaltic concrete paving, 18,134 ft. each subgrade and disintegrated granite sub-base, 15,544 ft. shoulders, $43,952; 3,593 ft. Boston Ave., Impvt. Dist. 122, 12,460 sq.yd. asphaltic concrete, 1,238 ft. curbing, 14,010 sq.ft. gutters, 2,780 cu.yd. excav., $39,910; 2,320 ft. 109th St., Impvt. Dist. 216, 10,086 sq.ft. gutters, 1,282 cu.yd. excav., 6,838 sq.yd. asphaltic concrete paving; 2,320 ft. 111th St., Impvt. Dist. 218, 10,058 sq.ft. gutters, 1,536 cu.yd. excav., 6,838 sq.yd. asphaltic concrete paving, 6,838 ft. subgrade, 2,320 ft. 110th St., Impvt. Dist. 239, 11,086 sq.ft. gutters, 1,506 cu.yd. excav., 6,838 sq.yd. asphaltic concrete paving. G. Jones, Hall of Records Bldg., engr.

B. C., Vancouver—Voted $200,000 bonds hardsurfacing various streets. C. Brackenridge, city engr.

Ont., Ft. William—Plans 11,000 sq.yd. tarvia macadam pavement on May St. $40,000. C. B. Symmes, city engr.

Ont., Pembroke—Renfrew Co. plans to expend $150,000 next year, improving earth and gravel roads, culverts, etc., and macadamizing 6 mi. Egansville-Cobden Rd. and Burnstown Rd. W. J. Moore, co. engr.

Ont., St. Catharines—Plans paving program for 1925, mostly cement roadways. $50,000. B. F. Lamson, city engr.

BIDS DESIRED

Virginia—Jan. 15, by State Hy. Dept., Richmond, improving roads and constructing bridges in various projects and counties. C. S. Mullen, highway engr.; adv. E. N.-R. Jan. 1.

Ala., Montgomery — Jan. 13, by J. L. Cobbs, city treas., asphalt, bitulithic concrete, Kentucky rock asphalt, tarvia double seal, rawhide or Willite process paving Jefferson and South Sts. J. M. Garrett, city engr.

Louisiana—Jan. 20, by State Hy. Comn., Reymond Bldg., Baton Rouge, constructing 2.06 mi. State Project 402 C, Ville Platte-Bunkie Highway, Evangeline Parish, 10 mi. State Project 414 A, Jonesboro-Monroe Highway, Jackson Parish, and 6.41 mi. State Project 380 C-2, Eunice-Lecompte Highway, Evangeline Parish. W. B. Robert, state engr.

La., Homer—Jan. 7, by Clerk Claiborne Parish, grading and gravel surfacing, etc., 14.51 mi. Sects. A, B and C, Junction City-Homer Rd., and Sect. A Homer-Oilfield Highway.

Ill., Galesburg — Jan. 5, by Bd. Local Impvts., City Hall, grading, curbing, vitr. brick paving, etc., 3,446 sq.yd. Brooks St., $14,704; 2,325 sq.yd. East Fremont St. and Florence Ave., $10,081; 12,660 sq.yd. South Pear St., $50,640. A. L. Richey, City Hall, engr. Noted Oct. 30.

Mo., St. Louis—W. B. Ittner, archt., 911 Locust St., taking bids and opens same about Jan. 8, 4 story, brick, concrete and stone, plain foundation, 19th and Morgan Sts., for Neighborhood Assn., 817 North 19th St. $125,000-$150,000.

Texas—Jan. 9, by Commissioners Courts of Cass and Bowie Counties at office County Clerk, Linden, improving highways and bridges on 3.09 mi. State Aid Project 554, Cass and Bowie Counties. F. E. Hess, Linden, co. engr.

Tex., Coleman—Jan. 12, by W. E. Dickerson, engr., Coleman Co., permanent paving 7 mi. Santa Anna-Buffalo Rd., 18 ft. $80,000.

Oklahoma—Jan. 6, by State Hy. Dept., Oklahoma City, grading, gravel surfacing, etc. 18,000 sq.yd. State Aid Project 61, Okfuskee Co., $25,000; 10,560 sq.yd. Shawnee-Tecumseh Rd., State Aid Project 77-A, Pottawatomie Co., $25,000; 19,880 sq.yd. State Aid Project 92, Texas Co., $31,000; 42,100 sq.yd. Geary Rd., State Aid Project 29, Blaine Co., $40,000. J. M. Page, highway engr.

Okla., Wetumka—Jan. 9, by C. M. Hamilton, city clk., grading and paving 9 blocks Alabama and St. Louis Sts., 26 and 40 ft., $67,900. Former bids rejected. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 11.

Calif., Burbank—Jan. 6, by City Clerk, improving 6,420 ft. Monterey Ave. and 9th St., 11,722 lin.ft. curbing, 32,000 lin.ft. gutters, 36,000 sq.ft. oil macadam paving; 7,000 ft. Orchard Dr. and Harvard Rd., 12,500 lin.ft. curbing, 55,000 lin.ft. sidewalks, 20,000 sq.ft. oil macadam paving. $25,000. A. M. Rose, Burbank, engr.

Calif., Los Angeles—Jan. 12, by Supervs. Los Angeles Co., improving 23,723 ft. Atlantic Ave., Impvt. Dist. 240, 52,397 cu.yd. excav., 47,446 ft. shoulders, 79,076 sq.yd. each disintegrated granite and subgrade, $98,397; 24,474 ft. Western Ave., Impvt. Dist. 243, 54,609 sq.yd. disintegrated granite, 65,000 sq.yd. disintegrated granite subgrade, 49,148 ft. shoulders. $25,000. G. Jones, Hall of Records Bldg., engr.

Calif., Santa Cruz—Jan. 8, by City Council improving Leibrandt Ave., 15,075 sq.ft. grading, 685 lin.ft. concrete curbing, 15,075 sq.ft. 5 in. concrete paving, etc. H. E. Godegast, city engineer.

BIDS RECEIVED

N. Y., Brooklyn—Fire Dept., Municipal Bldg., New York, restoring pavements disturbed by constructing underground fire system, here, from Sicilian Asphalt Paving Co., 41 Park Row, New York, (1) $26,550, from Harrison & Bernhardt, Inc., Central Ave., (2) $5,400 (3) $2,100.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., from Cleveland Trinidad Paving Co., Flushing, asphalt repaving Ditmars Ave. $13,452, 8th Ave. from Flushing to Potter Aves., $25,875, 8th Ave. from Jackson to Washington Aves., $17,120, Prospect St. $26,130, 6th Ave. $42,180, from Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., Jackson Ave. $117,373; from Sicilian Asphalt Paving Co., 41 Park Row, New York, recurbing, reflagging and paving 14th Ave., $16,568; from Uvalde Asphalt Paving Co., 1 Bway., New York City, grading, curbing and sidewalks on 92nd St. $10,187, permanent paving 104th St. $38,005. Noted Dec. 18.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and sidewalks on Hobson Ave. from H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, $32,523, 112th St., from Uvalde Asphalt Paving Co., 1 Bway., New York City, $18,340; sheet asphalt repaving Astoria Ave., from A. A. Johnson Corp., Queens Blvd., $40,235, Bway., from W. P. McDonald Co., 17 West 42nd St., New York City, $36,475. Noted Dec. 18.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Dec. 22, sheet asphalt repaving Lexington and 5th Aves., from W. J. Fitzgerald, 547 West 45th St., $33,903 and $5,712 respectively. Noted Dec. 18.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, from Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., asphalt paving, etc., Tennessee Ave., $15,058, Francis St. $20,071; from Webb-Kunze Constr. Co., 5927 Fyler Ave., asphalt paving, etc., Louisville Ave. $33,221, Bancroft Ave. $12,849; from Granite Bituminous Paving Co., Ry. Exch. Bldg., Warrenite on concrete, paving, etc., Davison Ave. $26,491, Emerson Ave. $29,111, Thomas St. $25,341, Varrelmann Ave. $5,777; from Blackburn & Crean, 4036 Chouteau Ave., asphalt paving Hoffman Ave. $13,737, and recut granite block paving Arsenal St. $22,120. Noted Nov. 27.

Tex., Jacksboro—Jack Co., 2½ in. bituminous macadam on sledged stone surfacing 16.94 mi. State Highway 24, Federal Aid Project 437-B, 17 ft., from Haden & Austin, Santa Fe and Runnels Sts., Houston, $185,214. Engrs. est. $213,500. Noted Nov. 20.

Tex., Seymour—Baylor Co., grading and bridging 14.47 mi. State Highway 30, Federal Aid Project 452-A, 26 ft., from Bucy & Childs, Rising Star, $31,144. Engrs. est. $42,234. Noted Dec. 4.

Tex., Seymour—Baylor Co., grading and bridging 12.72 mi. State Highway 24, Federal Aid Project 455-A, 26 ft., from McClellan & Stroup, Wichita Falls, $39,536. Engrs. est. $44,000. Noted Nov. 27.

Tex., Vernon — Wilbarger Co., grading, rein.-con. surfacing and bridging 5.26 mi. State Highway 5, 18 ft., from General Constr. Co., Cotton Exch. Bldg., Ft. Worth, $157,278. Engrs. est. $192,975.

Calif., Los Angeles—Grading Ocean Ave., from Griffith Co., Railway Bldg., $10,248; grading, oiling, rolling, etc., West View Ave., from P. J. Akmadjich, Los Angeles, $6,069; oiling, rolling, ornamental street lighting, cement sewer in Vincent St., from W. D. McCray, Amer. Bank Bldg., $46,026.

Calif., Los Angeles—Paving and sewers in Canal Ave. from W. D. McCray, Amer. Bank Bldg., $91,578; 15th St., from Griffith Co., Railway Bldg., $16,648.

Calif., Los Angeles—Bd. Pub. Wks. Dec. 15, grading, curbing, asphaltic concrete paving, Oxford Ave., from Los Angeles Co., 2900 Santa Fe Ave., $36,980; grading, sidewalks, remodeled oil surfacing, etc., 68th St., from Chalmers & Ford, W. Hellman Bldg., $67,802; grading, gutters, etc., Serreno Pl., also asphaltic concrete paving, etc., Laclede St., from Griffith Co., Railway Bldg., $1,806 and $12,772 respectively; improving Saratoga St., from F. Martter, Los Angeles, $7,301, Plymouth Blvd., Parthenia and 41st Sts., from H. Oswald, Amer. Bank Bldg., $7,276, $22,304 and $20,668 respectively.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, boro. pres., Boro Hall, granite repaving Sand St. to Garberry Block Corp., 45 South 9th St., $31,105, Schenectady Ave. to Greico Bros., 172 Russell St., $18,291; asphalt paving 65tth St., to Brooklyn Alcatraz Asphalt Co., 409 Hamilton Ave., $41,760. Noted Dec. 25.

N. Y., Brooklyn—E. Riegelmann, boro. pres., Boro Hall, Dec. 3, to B. Piccone & Son, grading, curbing and flagging Brooklyn Ave. $2,341, Schenectady Ave. $4,587, 9th Ave. $3,748, 80th St. $3,403; to W. J. McHale Contg. Co., 1250 Jefferson St., East 37th St. $3,588, East 48th St. $4,262, to R. Lynster, 1364 Sterling Pl., Nostrand Ave. $2,098; to Uvalde Asphalt Paving Co., 1 Bway., New York City, asphalt paving Brooklyn Ave. $3,498, to Brooklyn Alcatraz Co., 407 Hamilton Ave., East 37th St. $7,864, Livingston St. $109,503, 9th Ave. $8,774, 80th St. $8,805. Noted Dec. 11.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. surfacing 17,530 sq.yd. Route 221, Cambria Co., to Fort Pitt Constr. Co., Inc., Martin Bldg., Pittsburgh, $219,915; 8,901 sq.yd. Application 3177, Tioga Co., to R. D. Richardson Constr. Co., Connell Bldg., Scranton, $48,989; 53,500 sq.yd. Route 241, Wyoming Co., to Rudolph & Delano, Tamaqua, $287,000. Noted Oct. 16.

Ohio—Dept. Highways & Pub. Wks., Columbus, to Erman & Seibel, Defiance, grading, bridging and paving 4.053 mi. Sect. E-2 and C, Defiance-Paulding Rd., Paulding Co., rein.-con. $111,804, to P. B. Putnam, Toledo, 2.011 mi. Sects. J and Oakwood, Continental-Paulding Rd., Paulding Co., asphaltic macadam, $44,976, to Stuart & Kiner, Moxahala, 3.13, Sect. I, New Lexington-Athens Rd., Perry Co., brick, $25,597, to Seneca Constr. Co., Kansas, 0.831 mi. Sect. "Bettsville," Lima-Sandusky Rd., $31,653, 0.21 mi. Sect. "Bettsville" Lima-Sandusky Rd., $4,329, 2.87 mi. Sect. F, Upper Sandusky-Athens Rd., $73,697, all Seneca Co. and concrete, to D. C. Ingold, McComb, 2.209 mi. Sect. J, Fostoria-Carey Rd., Seneca Co., asphaltic macadam, $46,217, to W. H. and H. A. Souder, Fostoria, 3.046 mi. Sect. L, Tiffin-Republic Rd., Seneca Co., bituminous macadam, asphalt, $51,288, to V. Mango, Niles, 2.509 mi. Sect. C-2, Painesville-Warren Rd., Trumbull Co., asphaltic macadam, $32,293; 2.702 mi. Sect. D, Painesville-Warren Rd., Trumbull Co., asphaltic macadam, $47,681; to Bullhart & Wright, Coshocton, graveling 4.403 mi. Sect. C, Mt. Vernon-Coshocton Rd., Coshocton Co., $61,162; to McCleary & McGregory, West Lafayette, widening 2.506 mi. Sects. P, R and Hopedale, Cambridge-Steubenville Rd., Harrison Co., $14,706; to Ebersbach Co., Pomeroy, grading, etc., 4.39 mi. Sects. "P and Corning" New Lexington-Athens Rd., Perry Co., $127,635; bridge on Sect. C, Caldwell-Woodfield Rd., Noble Co., to Ready Bros., Warren, $11,751. Noted Dec. 25.

Ohio—Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving Sect. "A" Cleveland-West Richfield Rd., Cuyahoga Co., brick, to W. Huber, Eaton, $305,469; 6.603 mi. Sects. "G-2" and "D" Delaware-Newark Rd., Delaware Co., asphaltic macadam, to L. L. Clymer, Bluffton, $149,264; 3.059 mi. Sect. "L" Mt. Vernon-Coshocton Rd., Knox Co., asphaltic macadam, state stone, to Gledhill & Sampler, Galion, $49,245; 3.026 mi. Sect. "N" Cincinnati-Zanesville Rd., Perry Co., rein.-con., to Holmes Constr. Co., Wooster, $101,295; 3.131 mi. Sect. "I" New Lexington-Logan Rd., Perry Co., rein.-con., and 3.131 mi. Sect. "Shawnee" New Lexington-Logan Rd., Perry Co., brick, to W. F. Payne, Springfield, $125,165 and $34,072 respectively. Noted Dec. 25.

Ia., Idagrove—Ida Co., grading, etc., 8.16 mi. Primary Rd. Project 213-A, south of Holstein, 111,977 cu.yd. excav., to A. L. Cook, Ottawa, Kan., $25,036.

La., Winnsboro—A. W. Brown, city secy., Town Hall, 6 in. rein.-con. paving 11,970 sq.yd. Alsworth, Prairie, Front and Pine Sts., to Fleniken Constr. Co., Shreveport. Noted Dec. 4.

Kan., Eldorado—Butler Co., grading, etc., Federal Aid Project 205-D, to Stamey-Mackey Constr. Co., Hutchinson, $25,887.

Streets and Roads (Continued)

Kan., Hiawatha — Brown Co., grading, etc. Federal Aid Project 265-A and B, to A. F. Roberts, Sabetha, $25,033 and $27,296 respectively. Noted Nov. 27.

Kan., Washington—Washington Co., grading Federal Aid Project 211-A, B and C, to A. L. Cook, Ottawa, $53,719. Noted Nov. 13.

Neb., Lexington—Dawson Co., improving 5.546 mi. Federal Aid Project 321 near Glendive, gravel surfacing, to R. L. Wiley, Summit, S. D.; culverts, to Diamond Eng. & Constr. Co., Grand Island.

N. D., McClusky—Sheridan Co., grading etc. 7 mi. Federal Aid Project 218 Sect. B, west of Denhoff, to F. O. Smith, Steele, $25,496. Noted Dec. 11.

Tex., Greenville—Hunt Co., reshaping old local stone base and waterbound macadam surfacing with inverted penetration topping 13 mi. Wolfe City Rd., 16 ft., to J. A. Block & Co., 209½ West 8th St., Ft. Worth, $73,055, engrs. est. $75,000; reshouldering and Bates type rein.-con. surfacing 11.14 mi. State Highway 1, Federal Aid Project 171, 18 ft., to Plains Paving Co., Greenville, $226,415, engrs. est. $348,500. Noted Nov. 27.

Tex., Jefferson—Marion Co., grading, 2 in. amesite paving and bridging 20.55 mi. State Highway 49, Federal Aid Project 365, to Tibbetts Constr. Co., Mineral Wells, Tex., $174,428. Engrs. est. $195,000. Noted Oct. 9.

Tex., Kerrville—Paving 6 blocks Main St., concrete and asphaltic concrete, to Colglazier & Hoff, 922 Austin St., San Antonio, $30,000.

Tex., Kerrville — Paving 6 blocks Earl Garrett St., to Colglazier & Hoff, 922 Austin St., San Antonio, $30,000.

Tex., San Antonio—Asphalt on concrete paving Rigsby Ave., to Alamo Paving Co., Gunter Bldg., $40,000. Original contract cancelled and this contract awarded to include concrete base, etc.

Okla., Oklahoma City—Natural rock asphalt paving 14,500 sq.yd., 17th St., to Western Paving Co., Tradesman Natl. Bank Bldg., $82,620. Noted Dec. 4.

California — State Hy. Comn., Sacramento, grading 10.8 mi. road from Half Way Creek to Dog Creek, from Edwards Bros., Pacific Mutual Bldg., Los Angeles, $400,905. Shasta Co.

Calif., Bakersfield—Grading 1.5 in. Warrenite on 3.5 in. asphaltic concrete paving, etc., portions of 24th St., to Union Paving Co., Call Bldg., San Francisco, $60,428. Noted Dec. 25.

Calif., Los Angeles—Supervs. Los Angeles Co., improving 7,652 ft. Ford St. between Eugene Ave. and Anaheim St. to Fry Bros. Constr. Co., 2905 Elliott St., Long Beach, $70,114; 5,181 ft. Western Ave., to C. E. Crowley, 601 Pacific Electric Bldg., $9,548; 1,276 ft. 62nd St. between Compton St. and Hooper Ave., also Alpha Ave., to Griffith Co., 502 Railway Bldg., $9,688 and $9,334 respectively; 1,666 lin.ft. Towne Ave. and 3,252 ft. Alpha Ave., to E. L. Phillips, 109 La Poloma Ave., Alhambra, $2,273 and $5,816 respectively; 2,472 ft. Elm St. and 2,472 ft. Fir St. to G. H. Oswald, 366 East 58th St., $20,436 and $19,667 respectively.

Calif., Los Angeles—Supervs. Los Angeles Co., improving 13,400 ft. Hawthorne Ave., to J. Martin, 789 Lyon St., Los Angeles, $34,860. Noted Nov. 13.

Calif., Los Angeles—Los Angeles Co., improving West View Ave., to P. J. Akmadjich, 821 Yale St., $6,069; Canal Ave., to W. D. McCray, 416 Amer. Bank Bldg., $91,578; Ocean Ave. and 15th St. to Griffith Co., 502 Railway Bldg., $10,248 and $16,648 respectively.

Calif., Monterey—City Council, improving Jefferson St., etc., 90,000 sq.ft. 1.5 in. on 2.5 in. asphaltic concrete curbing, guttering, etc., to Clark & Henery Co., Chancery Bldg., San Francisco, $32,615. Noted Dec. 25.

Calif., Stockton—City Council improving portions of Lincoln St. between Church and Charter Way, 4,210 cu.yd. cut, 5,334 lin.ft. curb and gutter, 155,296 sq.ft. 2 in. asphaltic concrete on 2.5 in. concrete gravel and asphaltic concrete, 25,872 sq.ft. cement sidewalks, to J. E. Johnston, Savings & Loan Bank Bldg., $47,177. Noted Dec. 18.

Buildings—Industrial

PROPOSED WORK

Mass., Salem—Repair and Service Garage —J. J. Harrigan, Beverly St., plans in spring 2 story, 40 x 110 ft., rein.-con., and brick, Jefferson St. S. H. Hanning, 221 Essex St., archt.

Miss., Starkville—Plant—Borden Co., 510 North Dearborn St., Chicago, Ill., making preliminary plans concrete and brick plant, here. Private plans.

Tenn., Covington—Mill—O-Cedar Mills Co. plans 100 x 400 ft., steel and concrete addition. $85,000.

O., Cleveland—Factory—Teachuot Co., D. W. Teachout, pres., 321 Prospect Ave., plans 1 and 2 story, brick and steel factory, along tracks New York, Chicago & St. Louis R.R., near 116th St. $150,000. Engineer and architect not selected.

O., Cleveland—Plant—Union of Roumanian Societies Publishing Co., N. Bardes, pres., 5703 Detroit Ave., having preliminary plans prepared by W. J. Gabriel, 17436 Clifton Blvd., 3 story and basement, brick and steel addition. $60,000.

O., Cleveland—Factory—France Mfg. Co., L. E. France, pres., 10360 Berea Rd., had plans prepared by O. N. Chamberlin, 1222 West Clifton Blvd., 2 story and basement, 58 x 93 ft., brick, steel and timber, 10360 Berea Rd., $40,000.

O., Mingo Junction—Mill—Carnegie Steel Co., Steubenville, plans expansion of mill, also 7 new open hearth furnaces, Ohio River front, here. $5,500,000.

O., Sebring—Factory—Saxon China Co. plans 1 story 60 x 180 ft., brick, steel and concrete factory. $120,000.

Ill., Chicago—Factory—A. J. Caron, 1724 West Harrison St., having revised plans prepared by C. Hauber, 25 East Jackson Blvd., 1 story and half basement, 119 x 125 ft., rein.-con., brick and terra cotta, Potomac St. near Monticello St. $40,000.

Wis., Cedarburg—Plant—Owner, c/o T. F. Wittenberg and J. F. Nieman, Cedarburg, plans 3 story and basement, cold storage plant, brick and tile, plain foundation. $60,000. Engineer and architect not selected.

Wis., Jefferson Junction—Mill—Ladish Co., 105 Wells St., Milwaukee, plans rebuilding 3 story, brick, plain foundation, recently destroyed by fire. $50,000. Engineer and architect not selected.

Wis., Milwaukee — Foundry — Crucible Steel Casting Co., 612 Clinton St., c/o A. Lange, pres., plans brick and steel foundry, plain foundation also 2 story, brick pattern vault, 11th Ave. and railroad tracks. Engineer and architect not selected.

Wis., North Milwaukee—Plant—Christoffel Concrete Products Co., Route 2, North Milwaukee, plans rebuilding 2 story, approximately 60 x 200 ft., concrete block, plain foundation, Cedarburg Rd., recently destroyed by fire. $40,000. Engineer and architect not selected.

Ia., Council Bluffs—Plant—Daily Nonpareil having plans prepared by Anderson & Spooner, 27 South Main St., and takes bids about Feb. 1, 2 story and basement, 56 x 102 ft. newspaper plant, rein.-con. and brick. $70,000.

Ia., Marshalltown—Factory—C. A. Dunham Co., 809 East Main St., take bids about Jan. 20, 2 story, 50 x 150 ft., and 30 x 50 ft., brick and steel, East Main St. $75,000. H. E. Reimer, Kibbey Bldg., archt. Noted Aug. 7.

Minn., Albert Lea—Factory—C. D. Edwards Manufacturing Co., R. D. Edwards, secy., Albert Lea, having plans prepared by Gaarder & Gaarder, Albert Lea, 1 story, 80 x 200 ft., concrete, brick and tile factory. $50,000.

Tex., Ballinger — Plant — West Texas Utilities Co. plans ice plant, rein.-con., brick and concrete, 40 ton capacity, machinery for same. $70,000. Private plans.

Tex., Corpus Christi—Refinery—W. K. Campbell, Mid-Continent Bldg., Tulsa, Okla., making plans oil refinery, brick and concrete, here. $75,000. Private plans.

Tex., Corpus Christi—Plant—Gulf Coast Power Co. (Texas Central Power Co., owners), Frost Bldg., San Antonio, takes bids after Jan. 1, 60 x 80 ft. rein.-con. and steel, boiler house. $40,000.

Tex., Dallas—Plant—Dallas Milk Co., 3002 Ross St., had plans prepared by Flint & Broad, Andrews Bldg., 2 story and basement, 59 x 110 ft., Leonard St. between Flora and Julia Sts. $100,000.

Tex., Kerrville—Ice Plant—T. Lawson & Son, Eastland, plans converting roller mill into ice plant, with 60 ton capacity, brick and rein.-con. $70,000. Private plans.

Tex., San Antonio—Plant—Mission Ice Co., 212 Rivas St., having plans prepared by L. Harrington & Co., engrs., Houston Bldg., 1 story and part basement, 31 x 110 ft., brick, steel, rein.-con. and tile, Blanco and Fredericksburg Rds. $40,000.

Okla., Tulsa—Creamery—Central Milk Products Co., Chanute, Kan., plans rein.-con. plant, here. Engineer and architect not selected.

Calif., Los Angeles—Factory—Los Angeles Pressed Brick Co., Frost Bldg., 3 story (ultimately 5 story) and basement, and several 1 story, 200 x 200 ft. factory, Date St., to Macdonald & Kahn, 635 Spring St., $200,000.

Calif., Los Angeles—Plant—A. M. Castle & Co., 1132 Blackhawk St., Chicago, Ill., and 453 South Spring St., Los Angeles, has taken over plant of Little & Robertson Co., 37th and Alameda Sts., here, and plans additions. To exceed $40,000.

Calif., Oakland — Factory — California Towel Co., 976 28th St., having plans prepared by R. W. White (designer), 28th and Filbert Sts., 2 story, concrete factory, 976 28th St. $40,000 or more.

Calif., Stockton—Plant—J. E. Morgan, 1015 West Willow St., and J. R. Baker, 632 South Aurora St., interested in company which plans gunpowder plant. $100,000-$200,000.

Calif., Wilmington—Plant—Latin-Amer. Fruit & Steamship Co., Los Angeles, had sketches made by A. Kane, 1215 18th Hibernian Bldg., Los Angeles, cold storage plant, Wilmington St. To exceed $150,000.

Ont., Ft. William—Mill—Great Lakes Paper Co., having plans prepared concrete mill, 200 ton daily capacity. $1,500,000. Private plans.

Ont., Mitchell—Plant—Mitchell Mfg. Co., plans 1 story, 100 x 450 ft., concrete, brick and steel plant. $175,000. Private plans.

Ont., Orillia—Plant—Ditchburn Boats, Ltd., Gravenhurst, plans 2 story, 40 x 120 ft. plant, here. $100,000.

BIDS DESIRED

Ark., Walnut Ridge — Ice and Power Plant—Texas Central Power Co., Frost Bldg., San Antonio, Tex., taking bids two 40 x 60 ft., brick and rein.-con. buildings, here. $60,000. J. Marriott, Frost Bldg., San Antonio, Tex., archt.

CONTRACTS AWARDED

N. H., Swanzy—Plant—Leander Page, 1 and 2 story, 30 x 150 ft. dairy plant, to G. Scott, 28 Washington St., Keene. Archts. est. $40,000.

Mass., Norwood — Paint Shop — Bird & Son, East Walpole, 2 and 3 story and basement, rein.-con., shop, to Central Eng. & Constr. Co., 218 Main St., Pawtucket, R. I. Archts. est. $150,000. Noted Dec. 4.

Ala., Birmingham — Plant — Continental Gin Co., Title Guarantee Bldg., 1 story paint shop, 2 and 3 story warehouse, 150 x 400 ft. assembly house, 150 x 300 ft. woodworking mill, boiler house and dry kiln, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O., about $1,000,000.

O., Akron — Factory — Goodrich Tire & Rubber Co., East Market St., 1 story, 60 x 140 ft., brick, steel and concrete addition, South Main St., to Carmichael Constr. Co., 524 Central Savings & Trust Bldg. Archts. est. $60,000.

O., Cleveland—Factory—Fanner Mfg. Co., Brookside Park off West 25th St., 1 story, 60 x 70 ft., brick and steel, Brookside Park, to H. G. Slatmyer & Son Constr. Co., 218 Lakeside Ave., N. W. Archts. est. $40,000.

O., Cleveland — Factory — Telling-Belle Vernon Co., 3825 Cedar Ave., 1 story, 30 x 185 ft., brick, steel and concrete addition, to Uhl-Jaster Co., 1900 Euclid Bldg. Archts. est. $40,000.

O., Vermilion—Plant—Wakefield Brass Co., 1 story, 60 x 160 ft. plant, to Austin Co., 16112 Euclid Ave., Cleveland.

Wis., Green Bay—Shop—North West Engineering Wks., c/o L. H. Barkhausen, mgr., Pearl and Hocoard Sts., 1 story, 20 x 182 ft., rein.-con., steel and brick, plain foundation, to Ludolf Hansen Co., 113 West Walnut St., Green Bay. Archts. est. $50,000.

Wis., Neopit—Mill and Shop—E. A. Allen, supt. Menominee Indian Tribe, will build 2 story, 64 x 95 ft., rein.-con., plain foundation, recently destroyed by fire, by day labor. Private plans.

Kan., Wichita—Mill—Wichita Millwork Co., 900 East Gilbert St., will build 2 story and basement, 108 x 116 ft., brick and tile, North Washington St., by day labor. $40,000. Private plans.

Tex., Abilene—Plant—Independent Ice & Refrigerating Co., T. T. Harris, pres., will build rein.-con., brick and steel, plant, by day labor, 6th St. $75,000. Private plans.

Buildings—Commercial

PROPOSED WORK

N. H., Woodsville—Hotel, etc.—New Henderson Hotel Corp., plans new hotel, store and office building on site of old building, recently destroyed by fire. $150,000. Engineer and architect not selected.

Buildings—Commercial (Continued)

Massachusetts — School — State Dept. Educ., Boston, plans State Normal School between New Bedford and Fall River. To exceed $150,000. Engineer and architect not selected.

Mass., Amherst—Church—Congregational Church Society, having sketches made by K. S. Putman, 78 Main St., Northampton, 55 x 145 ft., limestone and granite, Pleasant St. To exceed $150,000.

Mass., Boston—Apartment—J. M. Burr, 31 State St., plans apartment, 248 Commonwealth Ave. $ 350,000. Engineer and architect not selected.

Mass., Chelsea—Club—Chelsea Council Knights of Columbus, Bway., having preliminary plans prepared by J. M. Gray Co., 175 High St., Boston, remodeling club 220 Bway., here. To exceed $150,000.

Mass., Boston—Community House—Boston Baptist Bethel City Mission Society, 525 Tremont Temple, raising $150,000 funds for community house, Green, Hale and Pitts Sts. Engineer and architect not selected.

Mass., Boston — Industrial — Commonwealth of Massachusetts, Dept. Correction, State House, S. Bates, comr., plan industrial building addition to Charleston State Prison. $430,000 appropriation asked. Engineer and architect not selected.

Mass., Boston—Garage—H. I. Shackley, c/o Mullhall & Holmes, archts., 33 Newbury St., having plans prepared 4 story, 70,000 sq.ft. floor space, rein.-con. and brick, 18-20 Deerfield St. $250,000.

Mass., Gardner — High School — Plans election $150,000 bonds for high school.

Mass., Hyannis—School—Bd. Educ. having preliminary sketches made by J. W. Beal Sons Co., 62 Summer St., Boston, 2 story school. $150,000.

Mass., Medford—Fire Station—Dept. Pub. Buildings, plans fire station, Fellsway West, Court St. and Riverside Ave., in Wellington Dist. $150,000. Engineer and architect not selected.

Mass., New Bedford—Theater and Store—Z. Ray, 1527 Acushnet Ave., had plans prepared by O. Crapo, 1428 Acushnet Ave., 2 story, 72 x 130 ft. theater, and 2 story 62 x 130 ft. office, brick and steel, Acushnet Ave. $250,000.

Mass., Quincy—Theatre—Northern Realty Co., c/o Tuck & Co., archts., 636 Warren St., Roxbury, making preliminary plans 1 story, brick and steel, plain foundation. $160,000.

Mass., Roxbury (Boston P. O.)—School—Roxbury Latin School Building Fund, 50 Congress St., Boston, raising $400,000 funds for new school, Kearsage Ave., here. Engineer and architect not selected.

Mass., Taunton—Home—Taunton Lodge of Elks, W. A. Lyons, chn. Building Com., plans new home. $150,000. Engineer and architect not selected.

R. I., Cranston—High School—City plans brick and steel high school. $400,000. Engineer and architect not selected.

R. I., Providence—High School—City plans 24 room, brick and steel addition to Commercial High School, Spring St. $300,000 appropriated. Engineer and architect not selected.

Conn., Hartford—Store and Office—Hudson Cloak & Suit Co., 845 Main St., plans 6 story, store and office building, Main and State Sts. $350,000.

N. Y., Athol Springs—High School and College—Corpus Christi Church, Clark St., Buffalo, plans high school and college, here. $250,000. Engineer and architect not announced.

N. Y., Brooklyn—Home—Brooklyn Assn. for Improving Condition of Poor, 104 Livingston St., having plans prepared by F. H. Quinby, 110 William St., New York City, 3 story, brick, steel and stone, plain foundation, 403 State St. $150,000.

N. Y., Buffalo — Clubhouse — Park Club, North Lincoln Blvd., plans clubhouse, Sheridan Dr. $400,000. Engineer and architect not announced.

N. Y., Kenmore — Bank — First Natl. Bank, M. D. Young, pres. plans bank, Delaware Ave. $300,000. Engineer and architects names withheld.

N. Y., New York—Apartment—One Thousand One Hundred and Seven, 5th Ave. Corp., c/o Rouse & Goldstone, archts., 512 5th Ave., having plans prepared 13 story, 108 x 109 ft., brick, steel and stone, plain foundation, 5th Ave. and 92nd St. $1,150,000.

N. Y., New York—Office—New York Central R.R., Grand Central Terminal, plans brick, steel and stone office, plain foundation, Lexington Ave. and 43rd St. $10,000,000. Cross & Cross, 385 Madison Ave., archts.

N. Y., New York—School—Mary Help of Christians Roman Catholic Church, c/o Salvati & La Quornick, archts., 371 Fulton St., Brooklyn, having plans prepared 4 story steel, brick and stone, plain foundation, East 11th St. near Ave. A. $175,000.

N. Y., Troy—Hotel—Community Hotel Corp. having plans prepared by C. L. Harding, archt. and engr., 729 15th St. N. W., Wash., D. C., 10 story, 140 x 210 ft., rein.-con., brick and steel, plain foundation, Bway. $800,000.

N. J., Atlantic City—Apartment—William Penn Apartment Corp., c/o Lippincott & Schaef, archts., 11 South 16th St., Phila., Pa., having plans prepared 5 story and basement, 49 x 140 ft., brick and steel apartment. $400,000.

N. J., Atlantic City—School—Bd. Educ. having plans prepared by H. A. Stout, Guaranty Trust Bldg., school at New Jersey and Artic Aves. $600,000.

N. J., Riverside — School — Bd. Educ. plans 14 room addition to Washington School. $172,000. Engineer and architect not selected.

Pa., Allentown—School—Bd. Educ. having revised plans prepared by E. N. Pickin, Hunsicker Bldg., 2 story and basement, 100 x 270 ft. and 50 x 100 ft. addition to Roosevelt School. Former bids rejected. Noted Nov. 27.

Pa., Phila.—Shop—F. A. North Co., 1306 Chestnut St., having preliminary plans prepared by A. W. Barnes, Perry Bldg., 5 story and basement, 28 x 178 ft., rein.-con., brick, plain foundation, 1529 Parrish St. $175,000.

Pa., Phila.—Store and Apartment—W. Freihoper, 20th and Indiana Sts., having plans prepared by Murphy & Talley, Drexel Bldg., 4 story and basement, 185 x 242 ft., brick and steel, plain foundation, Frankford Ave. and Foulkrod St.

Pa., Taylor — High School — Bd. Educ. having plans prepared by J. J. Hawley, Traders Bank Bldg., Scranton, 2 story and basement, 123 x 150 ft., brick, plain foundation.

Md., Baltimore—Church—Holy Rosary (Polish) Roman Catholic Church, S. Wachowiak, pastor, 1634 Eastern Ave., having plans prepared by F. J. Baldwin, archt., 328 North Charles St., 1 story and basement, stone, plain foundation, Eastern Ave. and Bethel St. $150,000.

Md., Baltimore — Church — St. Casimir Roman Catholic Church, B. Przemielewski, pastor, Lakewood Ave. and O'Donnell St., having plans prepared by E. L. Palmer, 513 North Charles St., 1 story stone, plain foundation, Lakewood Ave. and O'Donnell Sts. $150,000.

Md., Baltimore—School—Mayor and City Council, City Hall, having plans prepared by W. F. Stone, Jr., Munsey Bldg., 3 story brick, plain foundation, Edmondson Ave. near Collins Ave. $165,000. Engineer not selected.

Md., Curtis Bay (Baltimore, P. O.)—School—Mayor and City Council, City Hall, having plans prepared by R. L. Harris, 13 West Saratoga St., 2 or 3 story, 65x75 ft., brick and plain foundation, West Ave. and Arlington St. $200,000. Engineer not selected.

Tenn., Jackson—Fraternal and Office—F. & A. M. Masonic Lodge plans lodge and office building. $250,000.

Tenn., Knoxville — Schools — Election in spring or summer $1,500,000 bonds for schools.

Tenn., Memphis — College — Medical & Dental Dept., University of Tennessee, Knoxville, H. A. Morgan, pres., plans additional buildings, incl. laboratories, etc., here. $300,000. A. Peay, Nashville, gov.

Tenn., Memphis—Chemistry, Hall, etc.—University of Tennessee, Knoxville, purchased 690 acre site, here, and having plans prepared by Jones & Furbringer, Porter Bldg., chemistry, anatomy, hall, power house, green house, etc.

O., Canton — Hotel — L. Rodgers & Co., Clark Bldg., plans 14 story and basement, 66x200 ft., 3rd and Cleveland Aves., N. W. $2,000,000.

O., Canton—School—Stark Co. Bd. Educ. takes bids after Jan. 1, 1 story and basement, Fulton Rd. in New Avondale allotment. $150,000. C. Tirestone, Renkert Bldg., archt.

O., Cleveland — Apartment — I. Koslen, 1692 Coventry Rd., Cleveland Heights, having preliminary plans prepared by A. W. Harris, Discount Bldg., 3 story, 60 x 140 ft., brick and timber, Ludlow Rd. $150,000.

O., Cleveland—Auto Sales and Offices—W. S. Ferguson Co., archts., 1900 Euclid Bldg., soon takes bids 10 story, 135 x 220 ft., brick, steel and concrete, Euclid Ave., for Motors Realty Co., G. G. Peckham, pres., 1903 East 19th St. $1,500,000.

O., Cleveland—Church—Grace Lutheran Church, H. W. Bartels, 1879 East 66th St., plans 1 story, brick and steel, on 150 x 220 ft. site, Superior and Hampstead Rds. $70,000. Engineer and architect not selected.

O., Cleveland—School—St. Colmans Roman Catholic Church, C. A. Martin, pastor, 2017 West 65th St., having plans prepared by F. C. Warner, Hippodrome Bldg., 2 story and basement, 60 x 140 ft., brick and steel, West 65th St., $150,000.

O., Cleveland — Stores, Apartment and Garage—M. Becker, 12701 Kinsman Rd., having plans prepared by M. Altschuld, 5116 Woodland Ave., 1 and 2 story, 80 x 200 ft., brick and timber, 12701 Kinsman Rd. $150,000.

O., Cleveland—Store and Apartment—C. C. Goldman, Engineers Bldg., plans 3 story, brick, on 150 x 700 ft. site, Mayfield Rd. $250,000. Engineer and architect not selected.

O., Cleveland—Theatre—F. S. Jones, 820 Guardian Bldg., plans 1 story, brick, steel and concrete, Superior and Euclid Aves., $150,000. Engineer and architect not selected.

O., Cleveland Heights (Warrensville P. O.)—Commercial, Apartment and Garage—Syndicate, c/o C. D. Simmons, Fidelity Mortgage Bldg., Cleveland, plans 1 and 2 story, 116 x 220 ft., brick, Cedar Rd., here. $150,000. Engineer and architect not selected.

O., Dayton—Office—United Real Estate Development Co., M. L. Simons, pres., 1528 North Euclid Ave., plans 8 to 10 story and basement, 68 x 72 ft., rein.-con. and brick, plain foundation, West 2nd St. $800,000. Engineer and architect not selected.

O., Lakewood (Cleveland P. O.)—Commercial and Apartment—J. W. Thompson, 318 Chester-Twelfth Bldg., Cleveland, had plans prepared by W. S. Ferguson Co., 1900 Euclid Bldg., Cleveland, 2 and 3 story, 50 x 110 ft., and 60 x 82 ft., brick, Lakeland Ave., here. $150,000.

O., New Lexington—High School—City plans to sell $240,000 bonds Jan. 5, for 2 story and basement, 150 x 180 ft., brick high school, for New Lexington Village School Dist.

Mo., Trenton—Hotel—Trenton Hotel Co. had plans prepared by R. H. Sanneman, 517 Lee Bldg., Kansas City, and soon takes bids 4 story and basement, 81 x 89 ft., brick, steel and stone. $150,000.

Ill., Berwyn—Theatre, Office and Store—Biba Bros. take bids about Jan. 5, 3 story and basement, 125 x 140 ft., rein.-con., brick and stone, Roosevelt and Cuyler Aves. $300,000. Hooper & Janusch, Inc., 879 North State St., Chicago, archts. This corrects report in Dec. 25 issue.

Ill., Chicago—Apartment and Store—A. H. R. Atwood, c/o A. V. Capraro, archt., 64 West Randolph St., having plans prepared 3 story and basement, 98 x 125 ft., brick and stone, plain foundation, Washington and Laramie Sts. $150,000.

Ill., Chicago — Furniture Store — Amer. Furniture Mart Building Corp., 666 Lake Shore Dr., having plans prepared by N. M. Dunning, 310 South Wabash Ave., 16 story and basement, rein.-con., brick, steel and stone, caisson foundation, Erie St. and McClurg Court. $2,500,000.

Ill., Chicago—Garage—Porter Estate, c/o H. N. Rose, 38 South Dearborn St., having plans prepared by Foltz & Brand, 510 North Dearborn St., 7 story and basement, 48 x 154 ft., rein.-con., brick, steel and terra cotta, plain foundation, 606 South Wabash Ave. $200,000.

Ill., Chicago—Hall, Terminal, Hotel, etc.—Group Business Men., F. D. Lowden (Ex. Governor), secy., and Illinois Central R.R. Co., 135 East 11th Pl., F. L. Thompson, ch. engr., having sketches made by Anderson, Graham, Probst & White, archts. and engrs., 80 East Jackson Blvd., group of buildings, incl. convention hall, 20,000 seating capacity, 3,500 room hotel, railroad terminal, etc., rein.-con., brick, steel and stone, concrete and caisson foundations, Michigan Ave. and River St. $30,000,000.

Ill., Chicago—Schools—Bd. Educ., c/o J. Byrnes, business mgr., 650 South Clark St., having plans prepared by T. C. Christensen, 650 South Clark St., three 2 story and part basement, rein.-con., brick, timber and stone, plain foundations, 1 on Balmoral and Linden Sts., 1 on Bryn Mawr and Kimball Sts., and other on 65th and Sacramento Sts. $550,000 each.

Ill., Evanston—Sorority Houses—Northwestern University, W. A. Dycke, bus. mgr., having plans prepared by Lowe & Bollen-

Buildings—Commercial (Continued)

Fisher, 108 South La Salle St., Chicago, seven 2 story and basement, brick and stone sorority houses, plain foundations, on campus. $75,000 each.

Ill., Peoria — Hospital — Methodist Hospital of Central Illinois, 221 North Glen Oak Ave., takes bids about Mar. 1, 6 story and basement, 80 x 130 ft., concrete, brick and stone hospital. $350,000. B. L. Hulsebus, 1232 Jefferson Bldg., archt.

Wis., Antigo—Hotel—S. J. McMahon, 425 East Water St., Milwaukee, had plans prepared by Smith & Brandt, Dempsey Blk., Manitowoc, and soon takes bids 3 story and basement, 77 x 138 ft., brick and concrete addition, to Butterfield Hotel, plain foundation. $200,000. Noted May 1.

Wis., Beloit — School — Bd. Vocational Educ., c/o A. J. McCreary, dir., having plans prepared by Merman & Skogstad, La Crosse, 2 and 1 story, 155 x 160 ft., rein.-con., brick and steel, plain foundation. $160,000.

Wis., Milwaukee—Apartment—S. Ettenkeim & Sons, 209 Grand Ave., plans 6 story and basement, brick and concrete, plain foundation, Prospect Ave. $200,000. Engineer and architect not selected.

Wis., Milwaukee—Apartment—Park Investment Co., c/o M. G. Peters, 765 Sherman Blvd., plans 3 story and basement, brick and tile, plain foundation, Lisbon Ave. $150,000. Engineer and architect not selected.

Wis., Milwaukee—Theater and Business—R. Williamson & Co., archts., 405 Bway., preparing plans 2 story and basement, 160 x 182 ft., brick and concrete, Kinnickinnic Ave. $350,000. Owners name witheld.

Ia., Cedar Rapids—High Schools—Bd. Educ., 705 1st Ave., C. D. Hedberg, secy., plans two 3 story and basement schools. $500,000 each.

Ia., Creston—High School—Voted $275,000 bonds for high school. Engineer and architect not selected. Noted Dec. 11.

Ia., Des Moines — Lodge — Des Moines Consistory 3, Masonic Temple Bldg., purchased site and having plans prepared by Keffer & Jones, 204 Masonic Temple Bldg., lodge, 6th Ave. and Park St. To exceed $1,000,000. R. M. J. Coleman, secy.

Ia., Iowa City—Medical—State Bd. Educ., W. H. Gemmill, secy., State Capitol, Des Moines, takes bids in January, for Rockefeller Medical Building addition, University Campus, here. $600,000. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., Des Moines, archts.

Ia., Waterloo—Court House—Hand Co. had plans prepared by J. G. Ralston, 10th floor, L. & J. Bldg., 3 story and basement, 70 x 100 ft., stone court house. $200,000.

Minn., Edina (Minneapolis P. O.)—School—Voted $148,000 bonds for 2 story and basement, rein.-con., brick, tile and stone, for Industrial School Dist. 17. Sund & Dunham, 512 Essex Bldg., Minneapolis, archts. Archts. est. $150,000.

Minn., Minneapolis — Office — S. T. McKnight Co., 1236 McKnight Bldg., plans 3 story and basement, 66x100 ft., rein-con., brick, tile and stone addition, 5th St. and 2nd Ave. $150,000. Engineer and architect not announced.

Kan., Dodge City—Hospital—Protestant Hospital Bd., Dodge City, take bids in February, 3 story and basement, concrete, brick and stone, hospital. $150,000. Mann & Co., 722 Rorabaugh-Wiley Bldg., Hutchinson, archts.

Kan. Fort Scott — School — Election in April $200,000 bonds for 3 story, brick and concrete school. C. A. Smith, 4140 Harrison St., Kansas City, Mo., archt.

Neb., Omaha—Community—Knights of Columbus, c/o W. C. Fraser, Knights of Columbus Hall, having plans prepared by L. A. Daly, 622 Peters Trust Bldg., community building, 20th and Dodge Sts. Noted May 15.

Neb., York—School—Election Dec. 27, $220,000 bonds for school. C. Hadley, secy. Bd. Educ.

S. D., Miller—Court House—Hand Co. plans 3 story and basement, 70 x 100 ft., rein.-con., brick and stone. $175,000. J. G. Ralston, Waterloo, archt.

Mo., Clayton—Courthouse and Jail—St. Louis Co., c/o County Clerk, making preliminary plans 3 story and basement, rein.-con., brick, stone and terra cotta, Courthouse Sq. Election in spring. $1,500,000 bonds for same.

Mo., Clayton — Hospital — St. Louis Co. having preliminary plans prepared 3 story and basement, rein.-con., brick and stone, hospital, sanitarium and infirmary. Election in spring $1,000,000 bonds for same. Engineer and architect not announced.

Mo., Independence—Memorial City having plans prepared by G. B. Post & Son, 1003 Pioneer Bldg., Kansas City, memorial building. $150,000. Noted Aug. 14.

Mo., Kansas City—Lodge—Gate City Lodge 552, A. F. & A. M., having plans prepared by R. Gornall, New York Life Insurance Co. Bldg., 7 story and basement, 100 x 120 ft., rein.-con., brick and stone. $300,000.

Mo., Liberty—Gymnasium—W. Jewell College plans gymnasium. $150,000. H. C. Wayman, pres. Engineer and architect not selected.

Mo., St. Louis—Commercial—Wholesale Florists Realty Co., c/o J. S. Carter, Rialto Bldg., making preliminary plans 2 story and basement, 200 x 270 ft., rein.-con., brick and stone, 21st and Armstrong Sts. $300,000. Private plans.

Mo., St. Louis—Garage, etc.—J. F. McDermott, Central Natl. Bank Bldg., making preliminary plans 3 story and basement, 80 x 190 ft., brick, concrete and stone, garage, store and apartment building, Hodiamont and Gambleton Aves. Private plans.

Mo., Springfield—Theatre—F. E. Headley, 1325 East Walnut St., having preliminary plans prepared by E. Hawkins & Co., 400 McDaniel Bldg., rein.-con., brick and stone, 2,000 seating capacity, St. Louis St. $250,000.

Mo., St. Louis—Theater, etc.—Local Syndicate, c/o G. Endler Realty Co., Natl. Bank Commerce Bldg., plans 3 story and basement, 147 x 200 ft., rein.-con., stone, brick and terra cotta, Easton St. and Hamilton Ave. $800,000.

Mo., St. Louis—Union Hall, etc.—Carpenters Dist. Council, 3024 Olive St., soon takes bids 2 story and basement, 120 x 125 ft., brick, concrete and stone, Grand Blvd. $200,000. P. J. Bradshaw, International Life Bldg., archt.

Best wishes for a very happy and prosperous New Year. I believe 1925 will see a big building revival in this territory.

S. R. Forkner,
Construction News Correspondent,
Anderson, Ind.

Mo., St. Louis—Y. M. C. A., c/o B. W. Moser, 6186 McPherson St., soon takes bids 10 story and basement, 137 x 155 ft., brick, stone and rein.-con., Locust Blvd. $1,450,000. Noted June 12.

Okla., Sapulpa — Civic and American Legion Hall—Defeated $150,000 bonds for American Legion and Convention Hall. Project dropped. Noted Dec. 4.

Colo., Denver—Store—Darrow Music Co., 15th and Stout Sts., having plans prepared by H. W. J. Edebrooke, Tabor Opera House Blk., 6 story, 50x125 ft., rein.-con. and brick, plain foundation, Stout St. between 15th and 16th Sts. $250,000.

Okla., Norman—Church and Rectory—Episcopal Church of Oklahoma takes bids about March 1, 2 story and basement, 80 x 135 ft., brick, plain foundation, Linn and Ash Sts. $155,000. Bailey & Alden, 1207 Colcord Bldg., Oklahoma City, archts.

Okla., Okemah—High School—Bd. Educ. having preliminary plans prepared 2 story and basement, 112 x 168 ft., rein.-con. and brick, plain foundation, 5th St., $175,000 bond election soon. Engineer and architect not selected.

Okla., Oklahoma City — Store — Gloyd-Halliburton Co., 327 West Main St., making preliminary plans 8 story and basement, 75 x 140 ft., rein.-con. and brick addition, plain foundation, Main St. $225,000. Engineer and architect not selected.

Tex., Austin—Recitation—University of Texas, c/o E. J. Mathews, secy. Bd. Regents, having final plans prepared by H. M. Greene Co., North Texas Bldg., Dallas, 3 story and basement, 83 x 154 ft., rein.-con., brick and stone, campus. $350,000. Noted Aug. 14.

Tex., Bryan—Club House—Shriners of Texas making preliminary plans 2 story and basement, brick, stone and rein.-con., near A. & M. College campus. $150,000 funds being raised. Engineer and architect not selected.

Tex., Corpus Christi—Office and Bank—City Natl. Bank Bldg., takes bids after Jan. 1, 6 story and part basement, brick and stone addition, plain foundation. $150,000. R. H. Cameron, 1116 City Natl. Bank Bldg., San Antonio, archt. Noted Nov. 20.

Tex., El Paso — Synagogue — Jewish Church, J. M. Roth, rabbi, plans 2 story and basement, rein.-con., and brick. $150,000. Engineer and architect not selected.

Tex., Harlingen—Club—Arroyo Country Club, Harlingen, having preliminary plans prepared 3 story and part basement, country club, incl. hotel, 18 hole golf course, locker house and lounge, near here. Engineer and architect not selected. $200,000.

Tex., Houston—Apartment—J. M. Grover, Houston, had plans prepared by G. B. Post & Son, 1003 Pioneer Trust Bldg., Kansas City, Mo., 5 story and basement, 125 x 192 ft., rein.-con., tile and stucco. $500,000.

Tex., Lubbock—Hotel—Sanguinet Staats & Hedrick, archt. 1st Natl. Bank Bldg., Ft. Worth, making plans 6 story and basement, hotel, for Chamber of Commerce Stock Co. $300,000.

Tex., San Angelo—Hotel—St. Angelus Hotel having plans prepared by R. E. Lane, Waco, 7 story and basement, part brick and stone, plain foundation.

Tex., San Antonio—Fair Buildings—International Fair Assn., Des Moines, Ia., having plans prepared by R. J. Pearse, 1621 9th St., Des Moines, Ia., two fair buildings, brick, tile and frame, south side. $300,000.

Tex., San Antonio—Home—Protestants Orphans Home, 802 Kentucky Ave., takes bids after March 1, 3 story and part basement, brick and stone, plain foundation, Bandera Rd. and Woodlawn Ave. $250,000. Adams & Adams, Gibbs Bldg., archts. Noted Jan. 24.

Tex., San Antonio—Hospital—Crippled Children's Hospital, c/o Santa Rosa Hospital, 745 West Houston St., having preliminary plans prepared 4 story and part basement, part brick and stone, plain foundation addition. $150,000. Engineer and architect not selected.

Tex., San Antonio—Hotel—San Antonio Turnverein Society, Houston and Nacogdoches Sts., having plans prepared by L. Harrington & Co., engrs. and archts., Houston Bldg., 10 story and basement, 60 x 110 ft., brick and stone, plain foundation. $650,000.

Tex., San Antonio — Office — Central Impvt. Co., c/o Travis Bldg., having plans prepared by H. S. Green, Alamo Natl. Bank Bldg., 15 story and basement, 80 x 110 ft., rein.-con., part brick and stone, plain foundation, Commerce and Navarro Sts. $925,000.

Tex., San Antonio—Theatre and Club—San Antonio Turnverein Society, Houston and Nacogdoches Sts., having plans prepared by L. Harrington & Co., engrs. and archts., Houston Bldg., 4 story and basement, 60 x 90 ft., brick and stone, plain foundation. $350,000.

Tex., Waco—College—Lutheran Church, St. Louis, Mo., plans college here. Engineer and architect not selected.

Calif., Glendale—Club—Y. M. C. A. having plans prepared by Rogers & Stevenson, 402 Braley Bldg., Pasadena, 3 story, 100 x 150 ft. fireproof building.

Calif., Long Beach—Store—J. V. Moore, c/o H. L. Gogerty, archt., Marine Bank Bldg., having plans prepared 4 story and basement, 50 x 100 ft., brick and steel, East 4th St.

Calif., Los Angeles—Bank and Office—Pacific Natl. Bank, having plans prepared by Morgan, Walls & Morgan, 1124 Van Nuys Bldg., 12 story and basement, 95 x 166 ft., rein.-con., brick, steel, tile and marble, 9th and Hill Sts. To exceed $150,000.

Calif., Los Angeles—Commercial—University of Southern California, having plans prepared by J. and D. Parkinson, Title Insurance Bldg., 3 story and basement, 120 x 120 ft., brick, campus.

Calif., Los Angeles—Garage, Office and Store—P. R. Meyer, c/o Morgan, Walls & Clements, archts., Van Nuys Bldg., having plans prepared 1 and 2 story, 200 x 200 ft., brick, Western Ave.

Calif., Los Angeles—School—Bd. Educ. having plans prepared by H. Hewitt, 110 West 11th St., 2 story and basement, brick, Gulf Ave. $150,000.

Calif., Los Angeles—Warehouse and Loft—Italian Vineyard Co., 1234 Palmetto St., having plans prepared by Morgan, Walls & Clements, 1124 Van Nuys Bldg., general construction 12 story, 60 x 140 ft., rein.-con., plain foundation, 11th and Los Angeles Sts. To exceed $150,000.

Calif., Los Angeles—Warehouse—Italian Vineyard Co., 1234 Palmetto St., having plans prepared by Morgan, Walls & Clements, Van Nuys Bldg., 1 story, 182x312 ft., rein.-con., Macy St. $165,000 or more.

Calif., Los Angeles — Warehouse — Richards Trucking & Warehouse Co., 668 South Alameda St., having plans prepared by S. Runford & A. Brandner, 1017 Lincoln Bldg., 4 story (ultimately 8 story) and basement, 88 x 150 ft., rein.-con., Industrial and Alameda Sts. To exceed $150,000.

Buildings—Commercial (Continued)

Calif., Monterey—Theater and Store—Monterey Theaters Co., M. Jorgenson, archt., 110 Sutter St., San Francisco, having plans prepared brick and timber theater and store building. $150,000.

Calif., Oakland—Apartment—L. B. Hoge, 453 Lagunitas Ave., making preliminary plans apartment on Lakeshore Ave. $150,000. Engineer and architect not selected.

Calif., Oakland—Dormitory—Mills College, Oakland, having preliminary plans prepared by W. A. Ratcliff, Jr., Mercantile Trust Bldg., Berkeley, 2 or 3 story and basement, stucco and timber, on campus. $150,000.

Calif., Oakland—Museum—H. A. Snow, A. R. Breed, et al., c/o M. I. Diggs, archt., 19th and Telegraph Aves., having preliminary plans prepared 2 story, rein.-con., 19th and Alice Sts.

Calif., Oakland—Theatre—West Coast Theatres, Knickerbocker Bldg., Los Angeles, having plans prepared by Reid Bros., 105 Montgomery St., motion picture theatre, Fruitvale Ave. (Diamond Dist.). $150,000.

Calif., Palo Alto—Jail and Fire House—City plans jail and fire house. To exceed $150,000 and funds will probably be raised by bond issue.

Calif., Pasadena — Exchange — Southern California Telephone Co., 740 South Olive St., Los Angeles, having plans prepared by J. and D. Parkinson, Title Insurance Bldg., Los Angeles, 3 story (ultimately 7 story) and basement, 80 x 150 ft., brick and steel exchange.

Calif., Pinedale—Administration, etc.—Sugar Pine Lumber Co., 1201 Harrison St., San Francisco, plans 125 x 142 ft., administration building and enlarging mill pond from 15 acres to 20 acres. $250,000 appropriated.

Calif., San Diego—Exchange—Southern California Telephone Co., 740 South Olive St., Los Angeles, having plans prepared by J. and D. Parkinson, Title Insurance Bldg., Los Angeles, 3 story (ultimately 14 story) and basement, 100 x 100 ft., rein.-con., brick and steel exchange, here.

Calif., San Francisco—Lodge—Foresters of America, M. Raphael, interested, c/o City Tax Collectors Office, plans state headquarters. $150,000. Engineer and architect not selected.

Calif., Santa Paula — School — Voted $250,000 bonds for grammar schools. Noted Nov. 27.

Calif., Vallejo—City Hall, etc.—City plans fireproof city hall, jail and firehouse. $175,000 will probably be voted to finance construction. Engineer and architect not selected.

Que., Chicoutimi — Court House — Dept. Pub. Wks., Quebec, having plans prepared by G. St. Michel, Quebec, 2 story, 80 x 100 ft., stone courthouse. $200,000.

Que., St. Constant — Church — Roman Catholic Church plans new church. $200,000. Engineer and architects' names withheld.

B. C., Vancouver—Hospital—City Council having plans prepared and takes bids about Mar. 1, 3 story, rein.-con. isolation hospital. $250,000. A. J. Bird, city building inspector.

B. C., Vancouver—Schools—Bd. School Trustees, Hamilton St., having plans prepared by F. A. A. Barrs, School Bd. Offices, and takes bids probably in February, 3 story, 12 room, rein.-con., brick and tile additions to 3 schools. $300,000.

BIDS DESIRED

Me., Biddeford—School—Bd. Educ. taking bids 3 story and basement, brick and stone, plain foundation. To extend $150,000. Krokyn and Browne, 220 Devonshire St., Boston, archts.

Mass., Cambridge (Boston P. O.)—Theatre—W. Tufts, c/o Tuck & Co., archts., 636 Warren St., Roxbury, taking bids 1 story, 80 x 150 ft., brick and steel, plain foundation. $150,000. Noted Dec. 11.

Mass., Fall River—Store Modern Furniture Co., 1288 Pleasant St., taking bids 3 story, 55 x 125 ft., brick, concrete foundation, Pleasant St. $175,000. E. M. Corbett, 70 Bedford St., archt.

N. J., Atlantic City—Assembly Hall—Jan. 3, by Carrere & Hastings, archts., 52 Vanderbilt Ave., New York City, 2 story and basement, 72 x 149 ft., brick and steel, plain foundation, for Hotel Chelsea, here. $150,000.

N. J., Atlantic City—Hotel—Jan. 10, by Maynicke & Franke, archts., 25 East 26th St., New York City, 20 story, 220 x 327 ft., rein.-con., brick and steel, Boardwalk, Providence and Boston Aves., here, for Benjamin Franklin Hotel Co., c/o architects. Noted Dec. 18.

Ill., Chicago—Apartment—T. R. Bishop, archt., 35 South Dearborn St., taking bids 5 story and basement, 60 x 150 ft., rein.-con., brick and terra cotta, plain foundation, Division and Dearborn Sts., for S. H. Newman, 11 South La Salle St. $400,000.

Ore., Portland—Cathedral—Jan. 15, by Jacobberger & Smith, archts., Ry. Exch. Bldg., 116 x 187 ft., stone, steel and concrete, plain foundation, 17th, 18th Court and Davis Sts., for Catholic Church. $200,000. Noted Oct. 9.

Calif., Los Angeles — Apartment — G. Kraus, 2047 West 28th St., taking bids 4 story and basement, brick and concrete, Orange Dr. $150,000. E. M. Erdaly, 2096 West 28th St., designer.

Calif., Los Angeles—Theater, Office, etc.—West Coast Theaters, Inc., Knickerbocker Bldg., taking bids general construction 2 story, 143 x 191 ft., concrete, tile, and art stone, Manchester Ave. $200,000. L. A. Smith, Lilly-Fletcher Bldg., archt. Noted Oct. 9.

Calif., Santa Barbara — Lodge — C. Werner, archt., Santa Fe Bldg., San Francisco, taking bids 2 story and basement, brick, for Santa Barbara Lodge B. P. O. E. $250,000.

Calif., Santa Monica—Church—A. C. Martin, archt., Higgins Bldg., Los Angeles, taking bids brick church, here, for Santa Monicas Catholic Church, N. Conneally, pastor, 8th St. $200,000. Noted Dec. 25.

BIDS RECEIVED

N. Y., New York—School—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 81, Riverdale Ave. between 255th and 256th Sts., Bronx Boro, for Bd. Educ., 500 Park Ave., from Psaty & Fuhrman, 501 East 161st St., $295,000, heating and ventilating apparatus, from J. H. Goldblatt, 345 Madison Ave., $44,364. Noted Dec. 18.

N. J., Delanco—School—Beverley Twp. Bd. Educ., 1 story and basement, 103 x 239 ft. and 67 x 76 ft., brick and steel, plain foundation, general contract from J. E. Kalster, Beverly, $94,500. Noted Dec. 18.

CONTRACTS AWARDED

Mass., Boston—Office—Northern Realty Co., J. C. Kiley, 18 Tremont St., 5 story, rein.-con., brick and stone, plain foundation, 198-304 Cambridge St., to W. F. Conton & Sons, 82 Charles St. Archts. est. $150,000. Noted Dec. 25.

Mass., Charlestown (Boston P. O.)—Army and Navy Y. M. C. A., F. W. Teague, secy., City Sq., 4 story and basement, 70 x 105 ft., brick, granite and cast stone addition, to W. A. and H. A. Root, Inc., Park Sq. Bldg., Boston. Archts. est. $200,000. Noted Nov. 20.

N. Y., Brooklyn—Police Station—Police Dept., Municipal Bldg., New York, 92 Police Precinct Station House, Bergen St. and 6th Ave., here, to G. F. Driscoll Co., 548 Union St. $475,000. Noted Dec. 18.

N. Y., Buffalo—School—Bd. Educ., 1400 Telephone Bldg., 3 story and basement, 200x200 ft., rein.-con., brick and steel, East Delaware Ave., to R. E. Williams, Jackson Bldg., $385,658. Noted Dec. 4.

N. J., Newark—Warehouse—L. Bamberger & Co., Market St., 5 story, rein.-con., brick and steel, Plain St., to Turner Constr. Co., 244 Madison Ave., New York City. Archts. est. $1,000,000.

Pa., Phila.—High School—Bd. Educ., 19th and Chestnut Sts., general contract 5 story and basement, 222 x 317 ft., rein.-con. and brick, plain foundation, 59th and Lancaster Sts., to Cramp Co., Denckla Bldg., $1,766,345; plumbing, to W. Ambrose, Leverington and Umbria Sts., $89,359; heating, to S. Farth & Son, 2427 Penna. Ave., $206,000; electric, to Ross Electric Co., Beach & Brown Sts., $105,000. Noted Dec. 25.

Pa., Wilkes Barre—School—Wilkes Barre Institute, general contract 3 story and basement, brick, concrete and stone to Murch Bros., Exch. Bldg., St. Louis, Mo., $265,000. Noted Dec. 11.

Md., Baltimore—School—Mayor and City Council, City Hall, 3 story and basement, 54 x 115 ft., brick addition, plain foundation, Pimlico Rd. and Thorndale Ave., to C. L. Stockhausen Co., Gay and Water Sts., $244,948. Noted Dec. 11.

Ala., Birmingham—Hotel—Tutwiler Hotel, 2000 5th Ave., R. Jemison, Jr., agt., 120 room hotel addition, to Southern Ferro Concrete Co., 50 East Ellis St., Atlanta Ga. Archts. est. $300,000.

O., Akron — Theatre and Commercial — Akron Enterprises Co., 1 and 2 story, 130 x 132 ft., brick, steel and concrete, Main St., to Carmichael Constr. Co., 524 Central Savings & Trust Bldg. Archts. est. $400,000. B. F. Keith Amusement Co., 1564 B[illegible], New York City, lessee.

Ill., Chicago—Hotel—Randolph Hotel Co., c/o Eitel Bros., 171 West Rand St., 18 story, brick, steel and stone, plain foundation, Randolph St. between La Salle and Wells Sts., to Hegeman-Harris Co., Inc., 360 Madison Ave., New York City. Archts. est. $6,000,000.

Ill., Joliet—Hotel—L. J. Crowley, Joliet Natl. Bank Bldg., general contract 7 story and basement, 75 x 100 ft., concrete, brick, stone and steel, to Kaiser-Ducett Co., 105 Joliet Natl. Bank Bldg. Archts. est. $[illegible],000. Noted Dec. 11.

Wis., Madison—Garage—Madison Motor Car Co., c/o F. Wooton, pres., 325 West Gorham St., 3 story 60 x 210 ft., brick, steel and rein.-con., plain foundation, to G. C. Cnare & Son, 2000 Jeniper St. Archts. est. $150,000. Noted Dec. 11.

Wis., Milwaukee — Apartment — W. F. Neumann, archt., 114 Grand Ave., 3 story and basement, 94 x 103 ft., brick, plain foundation, 17th St., to E. Steigerwald & Sons, 2303 Galena St. Archts. est. $150,000. Owner's name withheld.

Wis., Milwaukee — Store, Office and Garage—Peacock & Frank, archts., 445 Milwaukee St., 3 story and basement, 100 x 120 ft., brick and steel, plain foundation, Jackson St., to Bentley Bros., 808 South Pierce St. Archts. est. $175,000. Owner's name withheld.

Mo., Columbia—Library—University of Missouri, general contract 3 story and basement, rein.-con., brick and stone, to J. J. Wuellner & Son, Alton, Ill., $112,784. Noted Dec. 4.

Mo., Kansas City—Exchange—Kansas City Telephone Co., 3 story and basement, 115 x 115 ft., telephone exchange, to Miller-Stauch Constr. Co., 228 Railway Exch. Bldg. Archts. est. $225,000.

Mo., St. Louis—Apartment—May Building & Investment Co., 810 Chestnut St., will build 3 story and basement, 76 x 149 ft., brick, concrete and stone, Cabanne and Goodfellow Sts., by day labor. O. J. Popp, Arcade Bldg., archt.

Mo., St. Louis—Apartment—Trade Realty & Building Co., 111 North 7th St., will build 2 story and basement, two wings each 37 x 348 ft., rein.-con., brick and stone, 39th and Magnolia Ave., by day labor. W. B. Howard, International Life Bldg., archt.

Tex., Houston—Auditorium—O. F. Holcomb, mayor, and A. C. Finn, archt., Bankers Mortgage Bldg., remodeling and constructing rein.-con., brick and steel addition, plain foundation, Main St., to Hubbard & Parker, Bankers Mortgage Bldg., $300,000 plus percentage basis. Noted Dec. 18.

Okla., Tulsa—Hotel—H. B. Craigo, c/o Dinsmore Hotel, will remodel and construct 2 story, 70 x 135 ft., rein.-con., brick and stone addition, by day labor, $150,000. N. B. Fleming, 504 Bliss Blvd., archt.

Wash., Tacoma — School — Bd. Educ., 2 story, rein-con. school, to Wallin & Bachelor, Tacoma, $239,920. Noted Dec. 18.

Calif., San Francisco—School—Bd. Pub. Wks., general contract Alamo School, 2 story and basement, rein.-con. and brick, 23rd St., to J. L. McLaughlin, 251 Kearney St., San Francisco, for City and San Francisco Co. $331,600. Noted Dec. 25.

Que., Three Rivers—School—Bd. Educ., 3 story school, St. Paul St., to J. A. Gruninger, Laviolette St., $224,000.

Federal Government Work

BIDS DESIRED

Ga., Fort Benning—Barracks—Jan. 22, by Constructing Quartermaster, constructing 1st section barracks and central heating plant; adv. E. N.-R. Jan. 1.

Ala., Florence—Lock Gates—Jan. 31, by U. S. Engineer Office War Dept., Wash., D. C., steel lock gates, etc., for Navigation Canal, at Wilson Dam, here; adv. E. N.-R. Jan. 1.

Ala., Florence—Floors—Jan. 6, by P. T. Samuels, ch. supply div., furnishing 4 steel floors, f.o.b. Sheffield.

Miss., Vicksburg—Drainage—Jan. 27, by Third Mississippi River Dist., P. O. Box 404, digging about 125,000 cu.yd. drainage ditches; adv. E. N.-R. Jan. 1.

Ill., Geneseo—Post Office—Jan. 16, by Treas. Dept. at office Supervising Archt., Wash., D. C., 49 x 59 ft. post office, here; adv. E. N.-R. Jan. 1.

Tex., Galveston—Radio Station—Jan. 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., naval radio compass station, here.

Federal Government Work (Continued)

Wash., Puget Sound—Boiler Plant—Spec. 5041—Jan. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to boiler plant and distribution system, here.

Ore., Portland—Barge—Jan. 15, by U. S. Engineer Office, War Dept., Wash., D. C., constructing one 5 x 22 x 80 ft. steel oil barge, here.

BIDS RECEIVED

Mo., St. Louis—Earthwork—Mississippi River Comn., 1311 International Bldg., approximately 600,000 cu.yd. hydraulic work in Levee Dist. 1, Perry Co., from McWilliams Dredging Co., McCormick Bldg., Chicago, $0.1725 per cu.yd.

H. T., Pearl Harbor—Storehouse—Spec. 5003—Bureau Yards & Docks, Navy Dept., Wash., D. C., storehouse and quarters at naval operating base hospital, here, from W. F. Martens, 513 Hawaiian Trust Bldg., Honolulu, $150,000, telegraphic deduction $44,493. Noted Oct. 30.

CONTRACTS AWARDED

Ala., Florence—Steel—Dec. 29, by P. T. Samuels, purch. agt., 220 tons reinforcing steel.

La., New Orleans—Earthwork—U. S. Engineer Office, War Dept., Wash., D. C., constructing about 22,500 cu.yd. earthwork in Barataria Levee Dist., to Highways Constr. Co., Inc., 418 Godchaux Bldg., $6,525.

Wis., Milwaukee—Breakwater—U. S. Engineer Office, constructing 1,640 lin.ft. concrete and stone breakwater extension, to S. M. Siesel Co., 160 Ogden Ave., $317,860. Noted Dec. 18.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

551 — Kentucky — Tennessee Light & Power Co., Bowling Green, Ky.—Wants preliminary permit for power plants at Government Dam 1, in Barren River, Dams 4, 5 and 6, in Green River in Warren, Butler and Edmonson Counties.

552—Denver Power & Irrigation Co., 603 Symes Bldg., Denver, Colo.—Wants license for irrigation and power project on south fork of Platte River, in Douglas and Jefferson Counties.

553—City of Seattle, Wash.—Wants preliminary permit for power project in Skagit River, Whatcom Co.

556—Hillside Water Co., Riverside, Calif.—Wants license for 4 storage reservoirs on North and Middle Fork Bishop Creek, Inyo Co.

557—Gold Coin Mining Co., 927 Market St., Wilmington, Del.—Wants license for transmission line in Granite Co., Mont.

Unclassified

PROPOSED WORK

Playground — Brighton (Boston P. O.), **Mass.**—City of Boston plans improving school grounds, Waverly, Portsmouth and Lothrop Sts., here. $25,000. J. F. Sullivan, Street Laying Out Dept., Boston, secy.

Playground — South Boston (Boston, P. O.), **Mass.**—City of Boston, plans improving school grounds East 9th, Vale and Mercer Sts., here, for playground. $25,000. J. F. Sullivan, Street Laying Out Dept., Boston, secy.

Heating and Ventilating System—Atlantic City, N. J.—Bd. Educ plans new heating and ventilating system in Junior High School, Ohio and Pacific Aves. $150,000. H. A. Stout, Guaranty Trust Bldg., archt.

Coke Ovens, etc.—Thomas, Ala.—Republic Iron & Steel Co., Woodward Bldg., Birmingham, plans 50 by-product coke ovens, here, $30,000 each; also plans to expend additional $500,000 for track equipment, incl. engines, etc.

Grain Elevator — Juda, Wis. — B. H. Roderick, Brodhead, plans rebuilding 2 story and basement, 40 x 130 ft., brick and timber, plain foundation, recently destroyed by fire. $40,000. Engineer and architect not selected.

Subway—Milwaukee, Wis.—City making preliminary plans temporary timber, steel or concrete subway under Chicago, Milwaukee and St. Paul Ry. tracks, at Chicago Ave. $20,000-$48,000. J. Schwada, City Hall, engr.

Subway—Laurence, Kan.—Atchison, Topeka and Santa Fe Ry. Co., F. E. Summers, supt., 406 Delaware St., Topeka, plans subway, here. $30,000. R. A. Rutledge, ch. engr.

Grain Elevator—Ft. Worth, Tex.—Moore-Seaver Grain Co., 521 Board Trade Bldg., Kansas City, Mo., plans 750,000 bu. rein.-con. grain elevator.

Golf Course — Harlingen, Tex. — See "Buildings—Commercial."

Pipe Line — Los Angeles, Calif. — Pan-Amer. Petroleum Co., 915 Security Bldg., plans 10 in. pipe line through city from Elk Hills to harbor. $500,000. E. O. Wilson, c/o owner, engr.

Bulkhead, etc.—Yuba City, Calif.—State Reclamation Bd., Sacramento, plans 1,377 ft. 3 in. timber bulkhead on round piles, 102,000 ft. Oregon pine No. 1, 5,750 round piling.

Power Development — Coaticook, Que. — City plans developing 1,850 hp. under 145 ft. head, incl. 1,500 ft. tunnel, concrete dam, etc. $180,000.

Power Line — Ontario — Ontario Hydro Power Comn., 190 University Ave., Toronto, plans power line from Erie Beach to Chatham. $40,000. A. Beck, London, chn.

Drilling for Gas—Tillsonburg, Ont.—Dominion Natural Gas Co., Hamilton, plans extensive drilling for gas, near here. $50,000. Private plans.

Causeway and Tunnel—Vancouver, B. C.—Park Bd., making plans causeway and tunnels at entrance to Stanley Park. $35,000. A. S. Woolton, c/o owner, engr.

Amusement Center — Victoria, B. C. — Canadian Pacific R.R., Windsor Sta., Montreal, Que., soon takes bids amusement center to be known as Crystal Gardens, incl. swimming pool, dance hall, tea rooms, gymnasium, etc., here.

BIDS DESIRED

Fire System—Brooklyn, N. Y.—Jan. 7, by B. S. Coler, comr. Dept. Pub. Welfare, Municipal Bldg., New York, installing fire alarm system in Kings County Hospital, here.

Heating System—Buffalo, N. Y.—Jan. 21, by State Hospital Comn., Albany, heating work, etc., at Buffalo State Hospital, here; adv. E. N.-R. Jan. 1.

Grand Stand—Fredonia, N. Y.—Chautauqua Co. Agricultural Assn., taking bids concrete and steel grandstand. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs. Noted Dec. 11.

Subway—Long Island City, N. Y.—Jan. 9, by Bd. Transportation, Municipal Bldg., New York installing tracks for a portion of Flushing extension of Queensboro subway line, Queens Boro.

Borings, etc.—New York, N. Y.—Jan. 9, by Bd. Transportation, Municipal Bldg., making borings along West Bway., Greenwich, 6th and 8th Aves., East 53rd, Wall, Fulton, Church, Houston and Worth Sts., Agreement "DQ," Manhattan Boro.; also miscellaneous construction providing sewer and water connections at various locations, Agreement "DO," Bronx Boro.

Subway—New York, N. Y.—Jan. 26, by Bd. Transportation, Municipal Bldg., constructing subway in Washington Heights Sect. 3, Route 78, from 112th to 122nd Sts.

Subway—New York, N. Y.—Jan. 29 by Bd. Transportation, Municipal Bldg., constructing subway in Washington Heights, Sect. 3 A, Route 78, from 122nd to 133rd Sts.

Prison Wall—Ossining, N. Y.—Dec. 30 (extended date), by J. L. Long, supt. State Prison, Albany, prison wall at Sing Sing, here. Noted Dec. 11.

Cooling System—Raybrook, N. Y.—Jan. 22, by Supt. Purchase, Room 408, Capitol, Albany, water supply for cooling purposes, storehouse and cold storage building, at State Hospital, here; adv. E. N.-R. Jan. 1.

Fire Protection—Rome, N. Y.—Jan. 22, by Supt. Purchase, Room 408, Capitol, Albany, water supply for fire protection in State School, here; adv. E. N.-R. Jan. 1.

Roofing—New Orleans, La.—Jan. 15, by Bd. Port Comrs., New Court House Bldg., 5,000 sq.yd. roofing for Claiborne St. Wharf. $45,000.

Sheet Metal Work—New Orleans, La.—Jan. 7, by Bd. Port Comrs. New Court House Bldg., sheet metal work and glazing skylights on Claiborne Ave. shed.

Pavilion—Nashville, Tenn.—Jan. 15, Bd. Comrs. Tennessee State Fair Assn., L. Litton, chn., for timber, brick or rein.-con. coliseum and live stock pavilion, $25,000. Marr & Holman, Stahlman Bldg., archts.

Foundation—Cleveland, O.—W. S. Ferguson Co., archts., 1900 Euclid Bldg., taking bids foundation for 10 story, 135 x 320 ft., brick, steel and concrete Euclid Ave., for Motors Realty Co., G. G. Peckham, pres., 1903 East 19th St.

BIDS RECEIVED

Heating and Ventilating — New York, N. Y.—See "Buildings—Commercial."

Ornamental Street Lighting System—Los Angeles, Calif.—See "Streets and Roads."

CONTRACTS AWARDED

Retaining Wall — New York — Commissioners Docks, Pier A, North River, New York City, retaining wall between Beach 116th St. and Beach 124th St. along Beach Channel Dr., Jamaica Bay, Queens, to A. M. Hazell, Inc., 26 Cortland St., New York City, $49,781. Noted Nov. 27.

Athletic Field, etc.—New York, N. Y.—Park Bd., at office Dept. Parks, Municipal Bldg., improving De Witt Clinton Athletic Field in De Witt Clinton Park, to Fleming & Sheppard, 116 Broad St., $10,780; grading, etc., new footpath in Inwood Hill Park, to G. Williamson, 46 West Bway., $11,575. Noted Dec. 25.

Heating and Plumbing, etc.—Phila., Pa.—See "Buildings-Commercial."

Subway—Toronto, Ont.—York Twp., concrete and steel subway in Hillary Ave., general contract, to Federal Constr. Co., 217 Bway. St., $19,875; steel, to Hamilton Bridge Wks. Co., Hamilton, $9,966. Engrs. est. $30,000. Noted Nov. 20.

Rock Wall—Powell River, B. C.—Powell River Co., constructing rock wall, incl. 62,000 yd. rock, and new 2 story, 50 x 175 ft. grinder building, to Armstrong, Morrison & Co., 543 Granville St., Vancouver, $300,000.

Material and Equipment

PROPOSED WORK

Road Machinery — Ladysmith, Wis. — Rusk Co. appropriated $8,000, road machinery during 1925, incl. several patrol graders. D. J. Summerville, comr.

Road Roller—Marinette, Wis.—City, c/o S. O'Shea, city clk., plans to purchase road roller.

Road Machinery — Waukesha, Wis. — Waukesha Co. appropriated $47,750, purchase of road machinery during 1925, incl. one crushing outfit, 11 graders and 7 trucks. C. J. Hahn, Waukesha, comr.

Structural Steel—Miami, Ariz.—Anaconda Copper Co., 25 Bway., New York City, N. Y., soon takes bids about 1,600 tons structural steel for miscellaneous buildings and structures in connection with new leaching plant, here, for Inspiration Consolidated Copper Co. G. R. Booth, Miami, engr.

Piles—Los Angeles, Calif.—Los Angeles Co. Flood Control Dist., Hall of Records Bldg., plans to purchase three thousand 32 to 36 ft. untreated Oregon pine piles.

BIDS DESIRED

Rock Crusher—Durham, N. C.—Jan. 15, by A. T. Crutchfield, city purch. agt., rock crusher with guaranteed production 175 to 225 tons of 2 in. and smaller, from hard trap rock of one man size and 1 elevator for same; adv. E. N.-R. Jan. 1.

Street Signs—Durham, N. C.—Jan. 16, by A. T. Crutchfield, city purch. agt., 300 street intersection signs; adv. E. N.-R. Jan. 1.

Tractor and Snow Plow—Appleton, Wis.—Jan. 5, by E. L. Williams, city clk., one 10 ton caterpillar tractor and snow plow attached, three 1 ton trucks with dump bodies, two 25 hp. caterpillar tractors, 1 motor driven ½ yd. grading shovel, etc.

Pipe, etc.—Dallas, Tex.—W. G. James, city secy., taking bids thirty-six thousand ⅜-in. lead pipe, three hundred ⅝-in. wiped lead goosenecks. E. A. Kingsley, city engr.

BIDS RECEIVED

Asphaltic Cement, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro., Municipal Bldg., 600,000 gal. asphaltic cement, from Warner-Quinlan Co., 79 Wall St., $40,930; 20,000 cu.yd. asphalt sand, from Z. Mahoney, 557 46th St., Brooklyn, $21,800; 20,000 bags Portland cement, from Terminal Supply Co., 350 Madison Ave., $14,160; 30,000 gal. gasoline, from Bang Serv. Sta. Inc., Arden St. and Bway., $3,870. Noted Dec. 18.

Cement and Fire Pumps — Minneapolis, Minn. — For 125,000 bbl. cement, from Thompson Yards, 2694 University Ave., St. Paul, $2.37 per bbl.; for 25,000 bbls. cement and 3 rotary fire pumps, from Waterous Fire Engine Wks., 80 Fillmore Ave. East St. Paul, $1,350 each.

CONTRACT AWARDED

Cement—Tracy, Calif.—W. Schlossman, secy. Banta-Carbona Irrigation Dist., 7,500 bbls. cement to Cowell Lime and Cement Co., 2 Market St., at $2.73 to $2.78 per bbl. Noted Dec. 25.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

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E.N.-R.

OFFICIAL PROPOSALS

Bids: Jan. 15.

Roads and Bridges
State Highway Commission

Richmond, Va.
December 23, 1924.

Sealed bids will be received at the office of the State Highway Commission, State Office Bldg., Capitol Square, Richmond, Va., until 10:30 a.m., Thursday, January 15, 1925, for the construction of:

1.—ROUTE 10—PROJECT F-76D (Reconstruction). From Farmville to .78 Mi. West in Prince Edward County, .78 Mi. of 18' x 8"-6"-8" Concrete. Approximately 8,200 sq.yds. Concrete Surfacing. No special designed bridges.

2—ROUTE 323 — PROJECT S-335C. Streets of Kenbridge. .9 Mi. of 18' x 8"-6"-8" Concrete roadway in Lunenburg County. Approx. .87 Ac. Clear & Grubbing, 2,968 Cu.Yds. Excav., 473 Cu.Yds. Borrow, 230 Lin.Ft. Pipe, 10.06 Cu.Yds. "B" Conc., 48 Lin.Ft. Wood Gd. Rail, 32 Lin.Ft. Wire Rope Gd. Rail, 22 Right of Way Monuments.

3—ROUTE 24—PROJECT S-385. Bridge & Approaches over Meherrin River at Emporia, in Greenesville County. Length: 288' 9". Width of roadway: 24 ft. and two 5' walks. One 110' Reinf. Concrete arch span, and five 30' reinf. conc. beam spans. Approx. 1,083 Cu.Yds. "A" Conc., and 188,500 lbs. reinf. steel, and 8,600 Cu.Yds. excavation.

Proposal guaranty to be cert. check, cashier's check or cert. of deposit, to the amount of $500.00 for bids less than $100,000.00 and $1,000.00 for bids more than $100,000.00. Proposal bonds 20% in excess of above amount may be used.

Plans and Specifications are on file at the Richmond Office State Highway Commission, and at the offices of the following District Engineers: Proj. F-76D at Lynchburg, Proj. S-335C at Richmond, and Proj. S-385 at Suffolk.

Additional plans for bidders on the above projects may be obtained upon application to the State Highway Dept., upon receipt of $5.00 payable to H. G. Shirley, $2.50 of which will be refunded if plans are returned in good condition within two weeks after bids are opened.

Engineers will be at the following places to show prospective bidders over the work:

Proj. F-76D—Office of Resident Engineer, in Farmville, Thursday, Jan. 8th, at 10:30 a.m.

Proj. S-385—Hotel Emporia in Emporia, Tuesday, Jan. 6th, at 11 a.m.

Proj. S-335C—Kenbridge Hotel, in Kenbridge, Wednesday, Jan. 7th, at 1 p.m.

The State Highway Commission reserves the right to reject any or all bids.

H. G. SHIRLEY,
Chairman.

C. S. MULLEN,
Chief Engineer.

Bids: Jan. 16.

Street Signs

Durham, N. C.

Bids will be received by the Purchasing Agent of the City of Durham, N. C., for approximately 300 street intersection signs complete, until 2:00 p.m., January 16, 1925, at which time they will be publicly read at the City Hall.

Samples and detail specifications must be submitted by the bidder with his proposal. Detail requirements can be obtained from H. W. Kueffner, Director of Public Works.

The City reserves the right to reject any or all bids or to accept such bids as appear in its judgment to be for the best interests of the City.

A. T. CRUTCHFIELD,
City Purchasing Agent.

OFFICIAL PROPOSALS

Bids: Jan. 22.

State Hospital Work

Raybrook, N. Y.

Sealed proposals for Water Supply for Cooling Purposes, Store House and Cold Storage Building, New York State Hospital for the Treatment of Incipient Pulmonary Tuberculosis, Raybrook, N. Y., will be received by Superintendent of Purchase, Room 408, Department of Architecture, Capitol, Albany, N. Y., until 3 o'clock p.m. on Thursday, Jan. 22, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to Three Hundred Dollars ($300). The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract, and in accordance with the terms of Specification No. 4413. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the New York State Hospital for the Treatment of Incipient Pulmonary Tuberculosis, Raybrook, N. Y., at the New York Office of the Department of Architecture, 18th floor, Fuller Building, Broadway and 23rd St., and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, Specifications and blank forms may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon request.

Dated: December 12th, 1924.

Bids: Jan. 22.

Fire Protection

ROME STATE SCHOOL

Rome, N. Y.

Sealed proposals for Water Supply for Fire Protection, Rome State School for Mental Defectives, Rome, N. Y., will be received by Superintendent of Purchase, Department of Architecture, Room 408, Capitol, Albany, N. Y., until 3 o'clock p.m., on Thursday, January 22nd, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to Six Hundred Dollars (600.00). The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specification No. 4434. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Rome State School for Mental Defectives, Rome, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon request.

Dated: December 12, 1924.

OFFICIAL PROPOSALS

Bids: Jan. 7.

State Hospital Work

Poughkeepsie, N. Y.

Sealed proposals for Sanitary Work and Electric Work, Additions to Water Supply, Hudson River State Hospital, Poughkeepsie, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 3 o'clock, p.m., on Wednesday, Jan. 7th, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into contract if it be awarded to him. Deposit shall consist of a certified check drawn upon some legally incorporated bank in the State of New York and made payable to the State of New York, or money equal to the following: Sanitary, $2,000, and Electric, $1,000. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specifications Nos. 4397 and 4423. The right is reserved to reject any or all bids. Drawings and Specifications may be examined at the Hudson River State Hospital, Poughkeepsie, N. Y., at the New York Office of the Department of Archecture, 18th floor, Fuller Building, Broadway and 23rd Street; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y.

Dated: December 8th, 1924.

Bids: Jan. 21.

Heating Work

STATE HOSPITAL

Buffal,o N. Y.

Sealed proposals for Heating Work, Additional Boiler Capacity, etc., Buffalo State Hospital, Buffalo, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 3 o'clock p.m., on Wednesday, January 21, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to Three Thousand Five Hundred Dollars ($3,500). The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 4390. The right is reserved to reject any or all bids. Drawings and Specifications may be examined at the Buffalo State Hospital, Buffalo, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23rd Street, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y.

Dated: December 18, 1924.

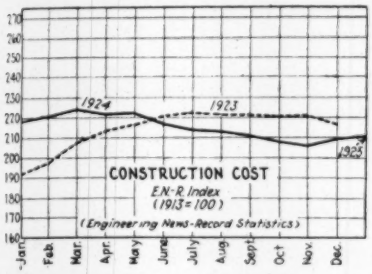
CONSTRUCTION NEWS

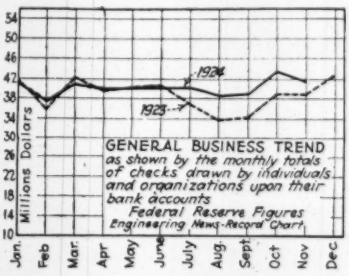
Engineering News-Record, January 8, 1925

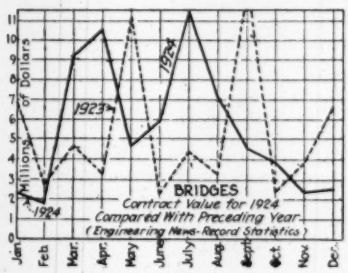
The Construction Barometer

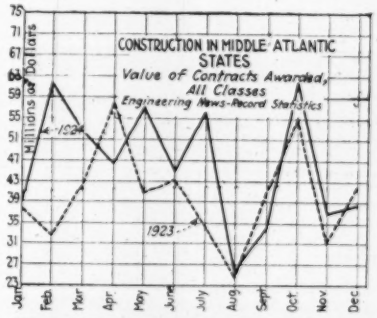
Public Building Most Active in Eleven Northeastern States, Streets and Roads, in Middle West and Industrial Work, in South

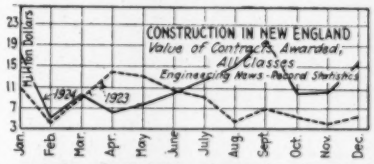
THE gain in money value of lettings for large public buildings has been apparent since the week of Dec. 18. There is no increase in the number of contracts let, neither is there loss, from week to week. Construction is most active in the eleven Northeastern states, the Middle West and the Far West. In the first mentioned section, commercial buildings predominate; in the Middle West, street and road work is most active. The South is keeping up its recent gains in industrial building. All this demand naturally results in increasing cost of construction. Business, generally, is moving in greater volume than a month ago. December returns on bank debits, it is estimated, will show a seasonal increase in the turnover of money.

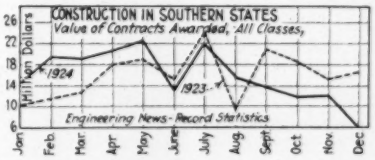


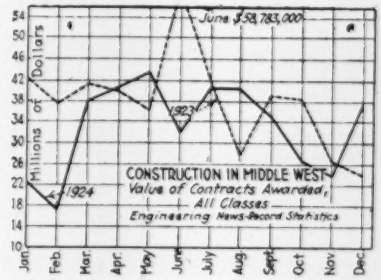


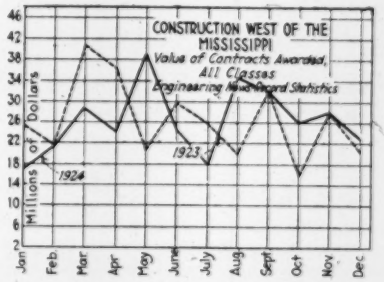


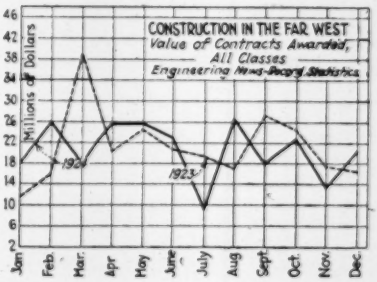












PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
Jan. 12	Minneapolis, Minn.	Jan. 8
Jan. 13	St. Louis, Mo	Dec. 18
Jan. 13	Bunkie, La.	Jan. 1
Jan. 13	Phila., Pa.	Jan. 8
Jan. 14	Milwaukee, Wis.	Jan. 8
Jan. 15	Cottonport, La.	Jan. 8
Jan. 16	New Orleans, La.	Jan. 8
Jan. 17	Otisville, N. Y. Adv. Jan. 8.	Jan. 8
Jan. 19	Foulkton, S. D.	Jan. 1
Jan. 21	Port Angeles, Wash.	Jan. 1
Jan. 24	Jackson, Mich. Adv. Jan. 1 and 8.	Jan. 1
Jan. 26	New Orleans, La.	Dec. 11

Bids Close		See Eng. News-Record
	SEWERS	
Jan. 12	Pontiac, Mich.	Dec. 18
Jan. 12	Long Island City, N. Y.	Jan. 8
Jan. 14	New York, N. Y.	Jan. 8
Jan. 14	Brooklyn, N. Y.	Jan. 8
Jan. 14	Baltimore, Md.	Jan. 8
Jan. 21	Amite City, La.	Jan. 1
	WASTE DISPOSAL	
Jan. 20	Los Angeles, Calif.	Jan. 1
	BRIDGES	
Jan. 20	New York, N. Y.	Jan. 1
Jan. 23	Tennessee	Jan. 8
Jan. 27	Forest City, S. D.	Jan. 1
Feb. 3	Louisiana	Jan. 1
Feb. 10	Brownsville, Tex.	Jan. 8
Feb. 17	Tampa, Fla. Adv. Jan. 8.	Jan. 8

Bids Close		See Eng. News-Record
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
Jan. 14	Merced, Calif.	Jan. 8
Jan. 15	Clearwater, Fla.	Jan. 8
Jan. 17	La Crosse, Wis.	Jan. 8
Jan. 19	Minnesota	Jan. 8
Jan. 26	St. Petersburg, Fla.	Dec. 18
	STREETS AND ROADS	
Jan. 9	Saluda, S. C.	Jan. 8
Jan. 13	Louisiana	Jan. 8
Jan. 13	St. Louis, Mo.	Dec. 18
Jan. 13	Louisiana	Dec. 18
Jan. 13	Louisiana	Dec. 25
Jan. 13	Montgomery, Ala.	Jan. 1
Jan. 13	Sulphur Springs, Tex.	Jan. 8
Jan. 14	New York, N. Y.	Jan. 8
Jan. 14	Brooklyn, N. Y.	Jan. 8
Jan. 15	Clearwater, Fla.	Jan. 8
Jan. 15	Urbana, Ill.	Jan. 8
Jan. 15	Checotah, Okla.	Jan. 8

Bids Close		See Eng. News-Record
Jan. 15	Independence, Kan.	Dec. 11
Jan. 15	Virginia	Jan. 1
Jan. 15	Winnsboro, S. C.	Jan. 8
Jan. 17	Kaufman, Tex.	Jan. 8
Jan. 20	Louisiana	Jan. 1
Jan. 20	Aiken, S. C.	Jan. 8
Jan. 21	Larned, Kan.	Dec. 18
Jan. 21	Ft. Smith, Ark.	Jan. 8
Jan. 22	Van Buren, Ark.	Jan. 8
Jan. 23	Pennsylvania Adv. Jan. 8.	Jan. 8
Jan. 24	Pennsylvania Adv. Jan. 8.	Jan. 8
Jan. 27	St. Louis, Mo.	Jan. 8
Jan. 27	South Carolina Adv. Jan. 8.	Jan. 8
Jan. 27	Louisiana	Jan. 8
Jan. 28	Gretna, La.	Dec. 25
Jan. 29	Quincy, Ill. Adv. Jan. 8.	Jan. 8
Jan. 29	Vero, Fla. Adv. Jan. 8.	Jan. 8
Jan. 30	Anniston, Ala.	Jan. 8

BUILDINGS—INDUSTRIAL

Jan. 9	Toledo, O.	Jan. 8
Jan. 21	Baltimore, Md.	Jan. 8
Jan. 28	Winona, Minn.	Jan. 8

BUILDINGS—COMMERCIAL

Jan. 9	Medford, Mass.	Jan. 8
Jan. 10	Atlantic City, N. J.	Jan. 1
Jan. 12	Milwaukee, Wis.	Dec. 25
Jan. 12	Phila., Pa.	Jan. 8
Jan. 12	Detroit, Mich.	Jan. 8
Jan. 12	Mt. Vernon, N. Y.	Jan. 8
Jan. 14	Cairo, Ill.	Dec. 25
Jan. 15	Portland, Ore.	Jan. 1
Jan. 19	West Roxbury (Boston P. O.), Mass.	Jan. 8
Jan. 19	Gettysburg, Pa.	Jan. 8
Jan. 20	Halfway, Mich.	Jan. 8
Jan. 21	Brooklyn, N. Y.	Jan. 8
Jan. 22	Van Buren, Tex.	Jan. 8
Jan. 25	Birmingham, Ala.	Nov. 20
Jan. 27	New York, N. Y.	Jan. 8

FEDERAL GOVERNMENT WORK

Jan. 9	Remodeling—Burlington, Vt.	Dec. 18
Jan. 12	Lock—Golconda, Ill. Adv. Jan. 8.	Dec. 4
Jan. 13	Remodeling—Galesburg, Ill.	Dec. 25
Jan. 14	Barges—Pittsburgh, Pa. Adv. Dec. 18 to Jan. 8.	Dec. 18
Jan. 14	Dredging—New York, N. Y.	Jan. 8
Jan. 14	Alterations—Norfolk, Va.	Jan. 8
Jan. 14	Dredging—New York, N. Y.	Jan. 8
Jan. 15	Pipe Line—Wash., D. C. Adv. Dec. 18 to Jan. 8.	Dec. 18
Jan. 15	Barge—Portland, Ore.	Jan. 1
Jan. 15	Radio Station—Galveston, Tex.	Jan. 1
Jan. 16	Post Office—Geneseo, Ill. Adv. Jan. 1 and 8.	Jan. 1
Jan. 20	Counterweights — Florence, Ala. Adv. Jan. 8.	Jan. 8
Jan. 21	Boiler Plant—Puget Sound, Wash.	Jan. 1
Jan. 21	Capstans — Portsmouth, N. H.	Jan. 8
Jan. 22	Dam—American Falls, Idaho	Dec. 18
Jan. 22	Barracks—Fort Benning, Ga. Adv. Jan. 1 and 8.	Jan. 1
Jan. 26	Post Office — Gloucester, Mass.	Jan. 8
Jan. 27	Drainage—Vicksburg, Miss. Adv. Jan. 1 and 8.	Jan. 1
Jan. 30	Post Office—Fulton, N. Y. Adv. Jan. 8.	Jan. 8
Jan. 31	Lock Gates—Florence, Ala. Adv. Dec. 25 to Jan. 8.	Jan. 1
Jan. 31	Jetty Repairs—Galveston, Tex. Adv. Jan. 8.	Jan. 8
Feb. 4	Repairs — Puget Sound, Wash.	Dec. 18
Feb. 4	Pier—Bremerton, Wash.	Dec. 25
Feb. 11	Well Houses — Annapolis, Md.	Jan. 8

UNCLASSIFIED

Jan. 9	Borings, etc.—New York, N. Y.	Jan. 1
Jan. 9	Subway—Long Island City, N. Y.	Jan. 1
Jan. 13	Stadium—Macon, Ga.	Jan. 8
Jan. 15	Roofing—New Orleans, La.	Jan. 1
Jan. 15	Pavilion—Nashville, Tenn.	Jan. 1
Jan. 15	Station Finish—Long Island City, N. Y.	Jan. 8
Jan. 21	Heating System — Buffalo, N. Y. Adv. Jan. 1 and 8.	Jan. 1
Jan. 22	Fire Protection — Rome, N. Y. Adv. Jan. 1 and 8.	Jan. 1
Jan. 22	Cooling System—Raybrook, N. Y. Adv. Jan. 1 and 8.	Jan. 1
Jan. 26	Bulkhead, etc.—St. Petersburg, Fla.	Dec. 18
Jan. 26	Subway—New York, N. Y. Adv. Jan. 8.	Jan. 1
Jan. 27	Grade Separation—Springwells, Mich. Adv. Jan. 8.	Jan. 8
Jan. 29	Subway—New York, N. Y. Adv. Jan. 8.	Jan. 1

MATERIAL AND EQUIPMENT

Jan. 12	Pipe—Point Grey, B. C.	Jan. 8
Jan. 12	Coal Loader—Two Harbors, Minn.	Jan. 8
Jan. 14	Stone Crushing Plant—Hollidaysburg, Pa.	Jan. 8
Jan. 14	Pipe, etc.—New York, N. Y.	Jan. 8
Jan. 14	Asphalt Sand, etc. — Brooklyn, N. Y.	Jan. 8
Jan. 15	Rock Crusher—Durham, N. C. Adv. Dec. 25 to Jan. 8.	Jan. 1
Jan. 16	Generator—Stillwater, Okla.	Jan. 8
Jan. 16	Street Signs—Durham, N. C. Adv. Jan. 1 and 8.	Jan. 1
Jan. 19	Transformers and Spares—Melbourne, Victoria, Australia	Nov. 20
Jan. 19	Voltage Regulating Apparatus—Melbourne, Victoria, Australia	Dec. 4
Jan. 20	Road Roller, etc.—Toronto, Ont.	Nov. 27

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Boston — Edison Electric Illuminating Co., Boylston St., plans laying and maintaining submarine conduit cables in Mystic River at and near Chelsea Bridge South. W. F. Williams, Dept. Pub. Wks., div. waterway, comr.

N. Y., Albany — Appropriated $200,000 for surveys, etc., for selection of water supply system, reservoirs, pipe lines, etc. Total cost $6,000,000. N. S. Hill, Jr., 112 East 19th St., New York City, engr.

N. J., Hammonton—Plans extending 6 and 8 in. mains in Main, Packard and Peach Sts. $30,000. J. Baker, town engr.

N. J., Rutherford—Boro. Council plans septic tank. $100,000. Engineer not selected.

N. J., Sea Girt—Plans additional water tanks for storage of artesian water. $12,000 Engineer not selected.

Va., Herndon—Herndon Water Co. plans new waterworks. C. M. Lawrence, pres.

N. C., Durham—See "Streets and Roads."

Ga., Griffin—See "Buildings—Industrial under Contracts Awarded."

Ala., Cotter — Plans new waterworks. $30,000. H. Kirkendall, mayor. Engineer not selected.

La., Mansura—Voted $50,000 bonds for waterworks and electric light plant.

Tenn., Knoxville—Making preliminary plans and surveys of Holston and Tennessee Rivers for location new intakes, filtration plant and pumping station. $2,500,000. F. A. Albert, supt. Waterworks. Noted Jan. 1.

Ill., Edwardsville—See "Railways under Illinois."

Wis., Cambria — City, c/o H. C. Davies, city clk., making plans and estimates water and sewerage systems throughout city. $25,000. W. G. Kirchoffer, Dean Bldg., Madison, engr.

Wis., Chippewa Falls—L. J. Felix, city clerk, soon takes bids 400 water meters.

Wis., West Bend — Plans new pumping equipment in Hickory St. station. To exceed $15,000. Engineer not selected.

Ia., Diagonal—Making plans new waterworks. $34,000. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, Mo., engrs. Noted Nov. 27.

Ia., Plover—Authorized $12,000 bonds for waterworks system. Total $15,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs. Noted Nov. 6.

Mo., Buffalo—Election Jan. 15, $45,000 bonds, waterworks and distribution system, etc. Russell & Axon, Springfield, engrs.

Mo., Mansfield—Making preliminary plans waterworks and distribution system. $35,000. Engineer not announced.

Tex., Celina — Making plans complete waterworks. $40,000 bonds voted. Elrod Eng. Co., 3124 Main St., Dallas, engrs. Noted Sept. 25.

Tex., Corpus Christi—Making plans improving water purification plant. $100,000. L. B. Griffith, city engr.

Tex., Lamesa—Election Jan. 20, $150,000 bonds, waterworks and sewer improvements, etc. Hawley & Roberts, 403 Cotton Exch. Bldg., Ft. Worth, consult. engr.

Okla., Braman—Soon takes bids waterworks, distribution system and electric transmission line from Blackwell, etc. $40,000. H. E. Musson & Son, Grain Exch. Bldg., Oklahoma City, engrs.

Okla., Claremore — Making preliminary plans enlarging waterworks, filtration plant and pumping equipment. $100,000. Engineer not selected.

Okla., Holdenville — Making preliminary plans new storage reservoir, mains, valves and hydrants. $135,000. C. H. Edge, Holdenville, engr.

Okla., Lawton—Making plans waterworks improvements, incl., reservoir at Lake Latonka. H. G. Olmsted & Co., Oklahoma Bldg., Oklahoma City, engrs.

Okla., McAlester—Voted $85,000 bonds, water main extensions, 36,800 ft. 6- to 10-in. c.i. pipe, small brick buildings and new fire truck with pumper. F. Frasier, McAlester, engr.

Okla., Tonkawa — Plans dam across Chickaskia River, and filtration plant. To exceed $25,000. Ruckel Eng. Co., Interurban Bldg., Hutchinson, engrs.

Ore., Portland—Making plans waterworks for Multnomah Water Dist., incl. steam driven pumps and large reservoir. $100,000. Barr & Cunningham, Spalding Bldg., engrs.

Calif., Manteca—Plans water system. To exceed $25,000. Engineer not selected.

Calif., Redwood City—City plans to purchase, 1,700 lin.ft. 4 and 6 in. bell and spigot, c.i. pipe, etc. C. L. Dimmitt, city engr.

Ont., Birch Cliff—Scarboro Twp. soon takes bids 3½ mi. 6 in. c.i. mains in Waterworks Area 4. $40,000. C. E. Fraser, 1331 Kingston Rd., Toronto, engr.

Ont., Highgate — Plans steel tank and tower with mains for water and fire protection. $35,000. F. Littlejohns, clk.

Ont., North Bay—Plans replacing present water lines with heavier mains, incl. 12,000 ft. 8, 12 and 20 in. c.i. pipe. $69,974. F. G. Mackie, town engr.

Ont., Toronto—Voted $14,000,000 bonds, new waterworks system in eastern section of city. Noted Nov. 27.

BIDS DESIRED

N. Y., Otisville — Jan. 17, by Municipal Bd. Water & Fire, constructing water supply system. C. A. Gridley, 185 Gidney Ave., Newburgh, civil engr.; adv. E. N.-R. Jan. 8.

Pa., Phila.—Jan. 13, by Dept. Pub. Wks., Bureau Water, 125 tons straight 16 in. c.i. pipe and 5 tons 16 in. c.i. specials, etc., Contr. 724; 3,400 tons 6, 8 and 12 in. c.i. pipe, 320 tons c.i. specials, etc., Contr. 732; also 50,000 lb. pig lead, Contr. 733. G. W. Biles, dir.

La., Cottonport—Jan. 15, by Mayor and Bd. Aldermen, equipment, material, machinery, etc. for waterworks, improvements. $30,000.

La., New Orleans—Jan. 16, by Sewerage & Water Bd. at office A. G. Moffat, secy., 526 Carondelet St., one 400 g.p.m. and one 200 g.p.m. boiler feed water pumps, one 2,800 g.p.m. centrifugal pump, etc. G. G. Earl, genl. supt. Noted Dec. 18.

Wis., Milwaukee—Jan. 14, at office Central Bd. Purchases, D. W. Hoan, chn., ten 4 in., three hundred fifty 6 in. one hundred fifty 8 in. and twenty-five 12 in. gate valves, fifty 2 in., twenty-five 3 in., twenty-five 4 in. and fifty 6 in. tapping valves, f.o.b. cars Milwaukee, to Water Dept.

Minn., Minneapolis — Jan. 12, by F. S. Gram, city purch. agt., one 10 ton electric crane for Water Dept. N. W. Elsberg, city engr.

BIDS RECEIVED

Mass., Boston—Supply Dept., (a) 1,300 tons 48 in. Class B c.i. pipe and (b) 160 tons special castings to Pub. Wks. Dept., Water Serv., from Warren Fdry. Co., 201 Devonshire St., Boston, (a) $54.40 per ton, (b) $149.48 per ton. Noted Dec. 18.

Waterworks (Continued)

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Brighton Beach, Mermaid, Neptune, Stillwell, Surf, and Ocean Parkway, etc., here, from N. DeStefano, 257 Glenn Ave., Tompkinsville, $289,000; mains in Bedford, Hamilton, Highlawn, New Utrecht, Stillwell, and 12th Aves., etc., Haring, 65th, 70th, 91st, East 34th and 94th Sts., here, from Knight & DeMicco, Inc., 448 East Tremont Ave., New York City, $14,190. Noted Dec. 25.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Dec. 30, mains in Bradley and 4th Aves., etc., from F. Hanratty, 605 Beach Terrace, New York City, $6,899. Noted Dec. 25.

Kan., Belpre—City, waterworks and distribution system, from Burt & Tripp, Hutchinson, Kan., $32,000. Engrs. est. $34,000. Noted Nov. 6.

CONTRACTS AWARDED

Mass., Boston—Supply Dept., 2,300 tons c.i. water pipe to Pub. Wks. Dept. Water Div., to Warren Fdry. Pipe Co., Phillipsburg, N. J., $144,055. Noted Dec. 25.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, to S. Gallucci, Railroad Ave., Corona, mains in Mt. Olivet and Otis Aves., etc., $6,910, Hylatt, Lewis and Prospect Aves., etc., $18,600; to F. Hanratty, 605 Beach Terrace, New York, $14,940. Noted Jan. 1.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Barnes, Barker Aves., etc., to Knight & DeMicco, Inc., 448 East Tremont Ave., $15,860. Noted Jan. 1.

La., Shreveport—Rebuilding and extending filter plant, foot of McNeil St., to Kaucher-Hodges & Co., Shrine Bldg., Memphis, Tenn., $115,000.

Tenn., Jackson—Steel stand pipe, 35 ft. high, and 48 ft. diam., for water plant, to Pittsburg-Des Moines Steel Co., Praetorian Bldg., Dallas, Tex. Engrs. est. $25,000.

O., Cincinnati—Hamilton Co., 46,900 ft. 6 and 8 in. c.i. mains, etc., in Water Supply Line 6, Dist. 2, North College Hill-Steel's Sublvd., and 21,590 ft. 6 and 8 in. c.i. mains in Water Supply Line 3, Dist. 1, Maderia, to Crumley, Jones & Crumley Co., 2301 Concord St., $91,008 and $41,600 respectively. Engrs. est. $110,517 and $50,392 respectively. Noted Dec. 11.

Mo., Elsberry—See "Excavation, Drainage, Irrigation, Levees."

Tex., Crawford — City will build c.i. mains in various streets, etc., by day labor; tank on tower, to Chicago Bridge & Iron Co., Praetorian Bldg., Dallas; pipe, to Amer. Cast Iron Pipe Co., Praetorian Bldg., Dallas. Engrs. est. $50,000.

Ont., Ford City—Essex Border Utilities Comn., Heintzman Bldg., filtration plant incl. alum feed machines, to Canadian International Filter Co., Confederation Life Bldg., Toronto, $2,050; switchboard equipment, and flow meters to Canadian General Electric Co., 212 King St. W., Toronto, $11,271 and $3,260 respectively; traveling cranes, to Francis Hankin Co., 386 King St. W., Toronto, $1,548; Venturi meters, to Allen General Supplies Ltd., 205 Yonge St., Toronto, $5,398.

Sewers

PROPOSED WORK

N. J., Trenton—Bd. Freeholders Mercer Co., making plans sewers in Kuser Rd. and Olden and Liberty Sts., near here. $25,000. H. F. Harris, Court House, engr.

N. J., Trenton—City Comn. rejected bids constructing sewage disposal plant. G. A. Johnson and G. A. Watson, 150 Nassau St., New York City, engrs. Will readvertise. Noted Dec. 4.

N. C., Durham — See "Streets and Roads."

O., Akron—Plans to sell $3,000,000 bonds Jan. 26, for sewage treatment plant and equipment. J. E. Root, 300 Delaware Bldg., engr.

Mich., Grand Rapids—Made plans Coldbrook Creek Dist. Relief Sewers in Grand Ave. and Lyon St., 760 ft. 42 in. vitr. pipe 8 ft. deep, 660 ft. 30 in. 7 ft. deep, 970 ft. 24 in. 6-8 ft. deep, 870 ft. 18 in. 7 ft. deep, 200 ft. 15 in. 5-6 ft. deep. C. A. Page, city engr.

Ill., Decatur—Takes bids about Feb. 1, Riverside intercepting sewer, etc. $500,000. Pearse, Greeley & Hanson, 6 North Michigan Ave., Chicago, engrs.

Ill., Edwardsville—See "Railways under Illinois."

Wis., Cambria—See "Waterworks."

Ia., Hazelton—Made plans sanitary sewerage system, disposal plant, etc. $30,000. H. Green & Co., Bever Bldg., Cedar Rapids, engrs.

Ark., Fayetteville—Two new sewer districts plan 8- to 30-in. sanitary sewers, one to issue $75,000 bonds and other $25,000 bonds for same. J. C. Massie, city clk.

Tex., Lamesa—See "Waterworks."

Tex., Marlin—Election soon $70,000 bonds improving sewage plant. Address Mayor Goode.

Tex., Mission—Election Jan. 14, $60,000 bonds extending sewerage system and disposal plant. Address Mayor.

Tex., Pelly—Election Jan. 24, $35,000 bonds new sanitary sewerage system. Address Mayor. Engineer not selected. Noted Dec. 18.

Okla., Pittsburg—Voted $27,500 bonds 5 miles sanitary outfall sewers, also disposal plant. Gant Baker Co., 1116 West Main St., Oklahoma City, engrs. Noted Dec. 25.

Okla., Westville—Made preliminary plans 7 mi. sanitary and outfall sewers. To exceed $25,000. Engineer not selected. A. West, mayor.

Okla., Wewoka—Made surveys 26,300 ft. 8- to 15-in. vitr. clay sewers in Seminole, Pear, Plum, Maple, Sycamore, Ohfusky and Cedar Sts. $30,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City. Noted Dec. 25.

Calif., Glendale—Made plans 80,207 lin. ft. 8- to 24-in. vitr. sewers in various streets. Burns & McDonnell, Marsh-Strong Bldg., Los Angeles, engrs.

From Cleveland

"At no time in the development of Cleveland and vicinity has the outlook for the construction industry looked better than it does as the year 1925 gets under way. Equally important, the activity of the year 1924 offers a good basis for the prediction that the new year will be the best in the history of the community. There is enough construction work in prospect at this time to herald an even bigger year for 1925 than was obtained during 1923. This is based upon plans already formed that call for $53,000,000 construction during the first six months, or less, of 1925."

Construction News Correspondent

Ont., Toronto—East York Twp., Municipal Yard, Sammon Ave., soon takes bids 18,000 ft. 8- to 12-in. vitr. tile sewers in Woodycrest Ave. $2,200, Jones Ave. $2,145, Langford Ave. $2,119, Dawes Rd. $20,100, Thyra Ave. $6,180, and Danforth Ave. $6,544. G. R. Jack, twp. engr.

Ont., Toronto—Making plans sewage disposal plant in North Toronto in connection with large sewage scheme. $1,000,000. R. C. Harris, city engr. Noted Jan. 1.

Ont., Toronto—East York Twp., Municipal Yard, Sammon St., plans 15,000 lin.ft. 8- to 12-in. vitr. tile sewers in 14 streets and avenues. $35,000. G. R. Jack, twp. engr.

Ont., Toronto—York Twp., 40 Jarvis St., making plans 26,000 ft. 8 in. up vitr. tile sewers in 18 streets and avenues. $50,000. F. B. Goldike, twp. engr.

BIDS DESIRED

N. Y., Brooklyn—Jan. 14, by E. Riegelmann, boro. pres., Boro Hall, sewers in Ocean Parkway, Ovington Ave., Quentin Rd., Kings Highway, Avenues P and O, East 2nd, 7th, 8th and 42nd Sts.

N. Y., Long Island City—Jan. 12, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., sewers in Ulster and Tuckahoe Aves., Pearson, 154th (Brink Pl.), 116th (Walnut), and Beddard Sts.

N. Y., New York—Jan. 14, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Grenada and Sands Places, Mace, Radcliff, Colden, Paulding, Laconia, Fletely, Metcalf, Wilcox, Vincent, Randall, Ellsworth, Hobart, Croes, Noble, Morris Park, Yates, Cruger and Strang Aves., East 233rd, 227th, 229th, 225th, 177th, 174th and 172nd Sts.

Md., Baltimore—Jan. 14, by Bd. Awards, 9,000 ft. 8- to 72-in. sewers in Dist. H-6, Storm Water Contr. 70. B. L. Crozier, City Hall, engr.

N. C., Robertsonville—See "Streets and Roads."

BIDS RECEIVED

Wis., Milwaukee — Bd. Pub. Wks., Dec 29, from J. Forrestal Co., 215 15th St., monolithic concrete sewer in Pabst Ave., $119,824; from Wenzel & Henoch Co., 498 27th St., monolithic concrete sewer, etc. in 53rd St. $114,957, vitr. combined sewers in 14th and Harrison Aves., $1,252; from G. E. Zimmerman, 3402 Grand Ave., rein.-con. sewer in 4th Ave. $7,336, vitr. sewer in 6th Ave., $12,056; from W. T. Werner, 675 Hi-Mount Blvd., vitr. sewers in 57th St. $2,770, 58th St. $1,506, Mineral St. $821. Noted Dec. 25.

Calif., Alhambra—For 1 mi. 48 in. rein.-con. drain, from Allied Constr. Co., 459 East 3rd St., Los Angeles, $50,560.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly pres. Queens Boro, Queens Subway Bldg., sewers in Sutter and 79th Aves., etc., to A. Paino, 2016 East 14th St., Brooklyn, $148,956; sewer in Moore St., to Green Contg. Co., 734 Vernon Ave., Astoria, $5,720. Noted Jan. 1.

Md., Baltimore—Bd. Awards, 400,000 lb. manhole, sewer inlet, and similar iron castings, to Amer. Shoe Brake & Fdry. Co., Fulton Sta., $11,556. Noted Jan. 1.

Va., Richmond—For 6,600 ft. 84 in. precast concrete sewer, etc. from point south of Granite St. between Granite St., James River, William Byrd Park and tracks of Richmond, Fredericksburg & Potomac R.R., to Hughes & Keegan, Real Estate Exch. Bldg., $115,559.

O., Dayton—For 4,000 ft. 30 in. rein.-con. sewer in Stout St., to Geiger & Roody, 409 Dayton Savings & Trust Bldg., $47,700 Engrs. est. $74,000.

Minn., St. Paul—Jan. 6, by H. W. Austin, city purch. agt., Belt Line, Phalen and Hazel Park sewerage system, Contr. H. $100,000. G. M. Shepard, city engr.

Kan., Oxford—For 28,932 ft. 8 and 10 in. sewers and disposal plant, to Burt & Tripp, Hutchinson, $32,183. Noted Dec. 11.

Tex., Houston — Storm sewer in Rice Blvd., to Fleming & Co., Humble Bldg., $31,150. Engrs. est. $35,000. Noted Sept. 25.

Tex., New Braunfels—For complete sewage plant, to Elder & Walker, San Antonio, $72,055. Engrs. est. $75,000.

Okla., Oklahoma City—Sewers in Jones Park addition, to Greene-Beekman Constr. Co., 519½ West Main St., $25,265.

Okla., Oklahoma City—For 47,300 ft. 8- to 15-in. concrete sewers in Capitol Hill and St. Marys Academy addition, to Koller Plumbing Co., Ponca City, $105,415. Engrs. est. $135,000. Noted Oct. 6.

Calif., Tulare—Vitr. sewers in various streets, to Oakland Sewer Constr. Co., 1003 85th Ave., Oakland, $73,780. Noted Oct. 2.

Ont., Hamilton — Sewers in Burlington St., 1st section, to J. Maguire Constr. Co., 196 Spadina Rd., Toronto, $79,900; 2nd section, to Stuart & Sinclair, 17 Jackson St. E., $27,109; 3rd section, to W. L. McFaul, City Hall, $49,600.

Ont., Toronto—Will build 17,000 ft. rein.-con. and brick trunk sewers in Strachan, Jones and Pape Aves., by day labor. $435,000. R. C. Harris, city engr.

Bridges

PROPOSED WORK

Pa., Hollidaysburg—Blair Co. 2 span 120 ft. bridge, 24 ft., at Martinsburg, one 90 ft. arch bridge, 20 ft., at East Freedom, two span 100 ft. bridge, 20 ft., here, two 25 ft. span bridge, 20 ft., at Cross Keys, and one 36 ft. span bridge at Eldorado, all concrete and steel. $150,000. D. F. Stout, Court House, engr.

Ohio—See "Streets and Roads."

Bridges (Continued)

Wisconsin—Eau Claire Co. appropriated $24,000 for bridge work, G. Osborne, comr.; Sauk Co. $18,619, W. Halbersleben, Baraboo, comr.

Ia., Des Moines—Making preliminary plans bridge over Coon River, at 18th St. $500,000. K. C. Kastberg, 1821 York St., engr.

Neb., Wakefield—See "Excavation, Drainage, Irrigation, Levees.

Missouri—State Hy. Dept., Jefferson City, making plans four 40 ft. rein.-con. deck girder spans, etc., over Douglas Branch, two 10 ft. concrete slab spans, etc., over stream, one 120 ft. steel truss and five 30 ft. rein.-con. deck girder spans, etc., over Marmaton River, all Vernon Co.; three 35 ft. reni.-con. deck girder spans, etc., over Piney Creek, three 18 ft. rein.-con. slab spans, etc., over Gulf Branch, Oregon Co., four 24 ft. and three 20 ft. rein.-con. slab spans over stream, Shannon Co.; one 80 ft. rein.-con. arch span, spandrell filled, etc., over Barren Creek, one 20 ft. rein.-con. arch span, spandrell filled, etc., over Erwin Creek, both Polk Co.; one 130 ft. steel truss span, etc., over Bear Creek, Cedar Co. B. H. Piepmeier, ch. engr.

Tex., Baird—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Okla., Baron—Adair Co. election Jan. 7, $55,000 bonds for 4 span 180 ft. steel and concrete bridge over Evansville Creek, near here. J. M. Page, Capitol Bldg., Oklahoma City, engr.

BIDS DESIRED

South Carolina—Jan. 27, at office Beaufort-St. Helena Twp. Hy. Comn., Court House, Beaufort, Ladies Island Bridge, connecting Beaufort and Ladies Island on an extension of State Route 30. State Highway Engineer, 1626 Main St., Columbia, engr.; adv. E. N.-R. Jan. 8.

S. C., Saluda—See "Streets and Roads."

Fla., Tampa—Feb. 17, by City Comn., City Hall, bridges over Hillsborough River at Cass and at Platt Sts. R. D. Martin, city engr., adv. E. N.-R. Jan. 8.

Tennessee—Jan .23, by State Dept. Hys. & Pub. Wks., Nashville, five 26 ft. span rein.-con. bridge over Laurel Fork River, State Aid Project 189 Carter Co.; 4 over 20 ft. span rein.-con. girder bridges, between Sta. 399 plus 00 and Wayne Co. line, State Aid Project 187, Hardin Co.; two 22 ft. and one 30 ft. span rein.-con. bridge over tracks Louisville & Nashville R.R., near Springfield, State Aid Project 119-C, Robertson Co.; also 3 over 20 ft. span rein.-con. girder bridges, on State Aid Project 186, Wayne Co. J. G. Creveling, highway comr.

Tex., Brownsville — Feb. 10, by O. C. Dancy, judge Cameron Co., 2 span 175 ft. steel and concrete bridge across Arroyo Colorado, near Harlingen. $66,000. W. O. Washington, Brownsville, engr. Noted Dec .25.

Tex., Canadian — Hemphill Co., 601 ft. timber pile trestle bridge, also repairing another bridge, concrete dip and approaches, on State Highway 4, to Austin Bridge Co., Commbs St., Dallas, $23,969, not incl. engineering and contingencies. Engrs. est. $26,500.

Tex., Linden—See "Streets and Roads."

Tex., Sulphur Springs—See "Streets and Roads."

BIDS RECEIVED

N. Y., Jamestown—Bridge Comn., Dec. 15, constructing West 3rd St. Bridge, 1,200 ft. long, steel deck girder, over Chadokin River, from Warren Constr. Co., Jamestown. Engrs. est. $300,000. Noted Nov. 27.

Missouri—See "Streets and Roads."

Tex., Brenham—See "Streets and Roads."

Tex., Henrietta — See "Streets and Roads."

Tex., San Antonio—I. Ewig, city engr., Dec. 29, structural steel for 90 ft. span bridge across San Antonio River, on Presa St., from Houston Structural Steel Co., Yale and Center Sts., Houston, $23,000; concrete and substructure for same, from Walker-Elder Co., Houston Bldg., $36,584. Noted Dec. 11.

CONTRACTS AWARDED

Va., Richmond—Concrete bridge, on Cowardin and Semmes Aves., to Hankins & Collins, 1410 West Clay St., $38,000.

South Carolina — Allisons Ferry Bridge Co., Florence, to Simmons Myrant Co., Charleston, timber bridge $76,618, concrete piers $25,514; to Austin Bridge Co., Nickleberry St., Atlanta, Ga., steel bridge $22,410; to L. A. Chitwood, Columbia, earth fills $11,573, all in Florence and Marion Counties. Noted Dec. 11.

Alabama—State Hy. Dept., Montgomery, several small bridges on Davenport-Ft. Deposit-Montgomery Co. Rd., Lowndes Co., to Buchanan, Chamanois & Blanks, Meridian, Miss., $21,404, engrs. est. $26,000; several small bridges on Monroeville-Camden Rd., Monroe Co., to J. H. Bull, Windfield, $19,-191, engrs. est. $27,000. Noted Nov. 20, under "Streets and Roads."

La., New Orleans—Dept. Pub. Finance Office, Purch. Div., Room 24, City Hall, substructure Strauss trunion bascule bridge over new Basin Canal, South Carrolton Ave., to Lake Side Bridge & Steel Co., North Milwaukee, Wis., $173,000.

Ia., Clinton — Clinton Co., steel truss bridge over Mill Creek, to L. Plumb, Wapello, $18,767; truss deck girder bridge at Wheatland, to J. R. Kane, Charlotte, $11,900.

Kan., Junction City—Bridge 1 and Conroe Bridge, to F. Luttjohann, 2101 Kansas St., Topeka, $21,485 and $17,302 respectively, Bridge 2 and culverts, to R. O. Shriver, Salina, $2,399 and $13,991 respectively; grading 4.745 mi. Lyons Rd., Federal Aid Project 228-A, to J. L. Collins, Junction City, $14,931. Noted Dec. 11 under "Streets and Roads."

Texas—Milam Co. (Cameron) and Robertson Co. (Franklin) 192 ft. steel and rein.-con. bridge across Little River, etc., to Thomas & Ratliff, Rogers,

Tex., Alice—See "Streets and Roads."

Tex., Houston—Concrete bridge, at Herman Park, to Smith Starkey & Brown, Stewart Bldg., $68,600. Engrs. est. $75,000.

Tex., Jacksboro — See "Streets and Roads."

Tex., Seymour—See "Streets and Roads."

Tex., Vernon—See "Streets and Roads."

Calif., Redwood City—Dumbarton Highway Bridge Corp., Santa Fe Bldg., San Francisco, to Moore Dry Dock Co., foot of Adeline St., Oakland, manufacturing and erecting 4,596,000 lbs. metal work, etc., for bridge over San Francisco Bay, at Dumbarton Crossing, San Mateo Co., manufacturing and erecting 2,100,000 lbs. metal work on dock in San Francisco Harbor, etc., also transporting 2,100,000 lbs. metal work from dock in San Francisco Harbor and erecting same for girder spans; to Healy-Tibbitts Constr. Co., 64 Pine St., San Francisco, constructing pier for main truss spans and timber fenders for piers, etc., 12,630 cu.yd. concrete, 30,000 lbs. reinforcing, 27,000 lin. ft. timber piling, also constructing concrete pile bent, concrete girder spans, etc., 35 timber test piles, 8,380 lin.ft. concrete piling, 4,500 yd. concrete cap slabs, etc. Noted Dec. 25.

Dams

PROPOSED WORK

Tex., Lufkin—Making plans raising dam at city lake, 4 ft. to make capacity 192,000,-000 gals. $100,000. T. L. Dunn, city secy. Engineer not announced.

Calif., Los Banos—See "Excavation, Drainage, Irrigation, Levees."

Railways

PROPOSED WORK

Massachusetts—Boston Elevated Ry. Co., Park Sq. Bldg., Boston, plans new tracks and reconstructing old connecting tracks from Bridge abutments along Western Ave. to Charles River Reservation, Brighton. $25,000. Private plans.

Alabama — Birmingham Electric Co., Birmingham, plans extensions and improvements to electric car system, incl. replacing several mi. trolley wire, new modern type cars, building new tracks, etc., in Birmingham. $2,000,000. J. S. Peaver, vice-pres. and genl. mgr.

Tennessee — See "Buildings—Industrial under Memphis."

Illinois—Western Tie & Timber Co., 905 Syndicate Trust Bldg., St. Louis, Mo., soon takes bids about 10 mi. standard gauge sidetracks, water-mains and sewers for new plant no 316 acre tract, near Edwardsville. Private plans. Noted Sept. 25 under "Buildings—Industrial under Edwardsville."

Texas—Missouri, Kansas & Texas R.R., Missouri, Kansas & Texas Bldg., Dallas, making plans enlarging yards and roundhouse, etc. at Katy Yards, in Ft. Worth. $1,000,000. K. H. Hanger, ch. engr.

Oklahoma and Kansas — Dodge City & Cimarron Valley R.R. Co., c/o Santa Fe R.R. Co., 179 West Jackson Blvd., Chicago, Ill., bought right-of-way and making preliminary plans 60 mi. track extension from Forgan, Okla., to Elkhart, Kan. $500,000 or more. C. W. Felt, ch. engr.

Ontario—Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans to expend $700,000 repairing and rebuilding 15 mi. radial railway from Humber River to Port Credit. F. A. Gaby, ch. engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

La., Baton Rouge—Choctaw D. D. voted $100,000 bonds for drainage and levee work, incl. 1,000,000 cu.yd. earthwork.

La., Martinville—Election Jan. 14, $200,-000 bonds, drainage work in St. Martin and St. Landry Gravity D. D. 1, St. Martin and St. Landry Parishes.

Ia., Oskaloosa—Mahaska Co. D. D. 6, plans 350,000 cu.yd. earth excav. $45,000. D. B. Russell, Oskaloosa, engr.

Neb., Wakefield—North Logan D. D., c/o W. R. Driskell, Logan, making preliminary plans 13 mi. drainage ditches, etc., approximately 500,000 cu.yd. excav., ten 60 ft. steel bridges, etc. H. Rettinghouse, 923 South Dakota Ave., Sioux Falls, S. D., engr.

Neb., Wakefield—South Logan D. D., c/o E. Boeckenhauser, Wakefield, making preliminary plans approximately 6 mi. drainage ditches, 250,000 cu.yd. excav., for drag line machines, four 60 ft. steel bridges, etc. H. Rettinghouse, 923 South Dakota Ave., Sioux Falls, S. D., engr.

Texas—State Bd. Water Engineers, Austin, election Jan. 24, for formation of water improvement district for Bexar, Medina and Atacosa Counties, proposed irrigation to reclaim 43,500 acres. $9,000,000 bond election expected in March for same.

Calif., Butte City—Butte City Ranch, made plans irrigating 2,552 acres land, incl. 5 pumping plants, centrifugal, 12 in. size with 50 hp. motors, 80,000 to 100,000 lin. ft. 12- to 20-in. concrete pipe 4 mi. power line, etc. Private plans.

Calif., Grimes—E. Smith, 1011 Mariposa Ave., Berkeley, made plans irrigating 365 acres of land incl. installation one 20 and one 10 in. centrifugal pumps, in Colusa Co., here.

Calif., Los Banos—San Joaquin River Water Storage Dist. made estimates for Friat Dam, one 100,000 acre ft. dam, estimated cost $4,585,000, one 130,000 acre ft. dam $5,792,500, one 200,000 acre ft. dam $8,313,000, one 400,000 acre ft. dam $12,-975,500, one 600,000 acre ft. dam $18,000,-000; also powerhouse, approximately $2,000,000 to $2,500,000. H. Barnes, Los Banos, resident engr., A. Kempkey, Hobart Bldg., and A. J. Wiley, Boise, Idaho, consult. engrs.

Calif., San Ysidro (National City P. O.) —San Ysidro Irrigation Dist. plans to irrigate approximately 400 acres, 4 mi. 1 to 12 in. riveted steel and wrought iron sheet steel pipe line, 3, 4 and 6 in. centrifugal pumps direct connected to 40 hp. motors.

BIDS DESIRED

Fla., Clearwater — Jan. 15, by Comrs. Pinellas Co., 900,000 cu.yd. dredged embankment which will form part of causeway across Clearwater Harbor between main land and sand key. C. E. Burleson, co. engr.

Wis., La Crosse—Jan. 17, by E. Bosshard, secy. La Crosse Co. Farm Drainage Bd., Court House, Dist. 1, Shelby Twp., 9,200 ft. ditch, incl. 35,250 cu.yd. excav., dam, 40 cu.yd. rein.-con., two surface intakes each containing 33 ft. of 24 in. vitr. sewer pipe, etc. E. R. Jones, Madison, engr.

Minnesota—Jan. 19, by C. J. Kall, aud. Nobles Co., Worthington, 144,800 lin.ft. 6- to 28-in. tile in Judicial Ditch 9, Nobles Co., $108,205; 89,640 lin.ft. 6- to 30-in. tile, 14,-500 lin.ft. 6- to 16-in. sewer pipe, etc., in Judicial Ditch 17, Nobles, Murray and Jackson Counties, $61,296. Noted Dec. 4.

Calif., Merced—Jan. 14, by Directors Merced Irrigation Dist., constructing canal, 252,000 cu.yd. excav., and 13,000 sq.ft. concrete lining, 2,000 ft. 30 in. concrete pipe, 120,000 ft. Oregon pine, and 140,000 ft. raw wood timber, etc. R. V. Meikle, ch. engr.

BIDS RECEIVED

N. Y., New York—Commissioners Docks, Pier A, North River, Dec. 30, dredging 110,000 cu.yd. between Piers 58 and 62, Contr. 1849, from Columbia Dredging Co., 30 Church St., $22,990. Noted Dec. 25.

CONTRACTS AWARDED

La., Bossier—Bd. Comrs. Gravity D. D. 1, Bossier State Bank, clearing and excavating Red Chute Bayou, to Buchanan &

Excavation, Drainage, Irrigation, Levees (Continued)

Crow Co., Shreveport, $43,200. Engrs. est. $50,000. Noted Dec. 18.

Ill., Decatur—D. D. 1 of Austin Twp., Macon Co., 12,500 f.t 10- to 26-in. drainage tile, to White Hall Sewer Pipe & Stoneware Co., White Hall; labor, to J. Boze, Decatur. Engrs. est. $15,500.

Ill., Fairbury—Avco D. D., 54,529 ft. 8- to 30-in. Streator shale drain tile, to Herr Bros., Piper City, Ill.

Ia., Onawa — Heitz D. D. 17, Monona Co. (a) approximately 123,039 cu.yd. main channel ditch, and (b) cleaning out lateral ditches, to R. Osman, Woodline, (a) $0.11 per cu.yd., and (b) $0.20.

Mo., Elsberry—Lincoln Co. Rice Farming Co., c/o A. V. Rowe, will construct irrigation system consisting of 7 mi. main channel, 60- to 75-ft. wide, laterals, also 3 pumping units, 10,000 g.p.m. each, etc., by day labor. Noted Oct. 9.

Calif., Merced—Merced Irrigation Dist., two 48 x 60 in. and two 75 x 96 in. slide gates, to Llewellyn Iron Wks., 1200 North Main St., Los Angeles, $16,056 and $28,471 respectively; two 60 in. and two 96 in. needle free discharge valves, to Pelton Water Wheel Co., 19th and Harrison Sts., San Francisco, $35,104 and $52,046 respectively; two 96 in. needle type penstock valves mechanically operated, to Wellman-Seaver-Morgan Co., Rialto Bldg., San Francisco, $47,650; 4 booster pumps, to Byron-Jackson Pump Mfg. Co., foot of Carleton St., Berkley, approximately $11,000. Noted Nov. 13.

Streets and Roads

PROPOSED WORK

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, plans highway from Morton St. along Marsh and Adams Sts., in Boston, also Shore Dr., North St. and Quincy Ave., in Quincy. $2,000,000. J. R. Rablin, 1 Ashburton Pl., Boston, engr.

Mass., Boston — City and Metropolitan Dist. Comn., 1 Ashburton Pl., plan widening River St. between Cleary Sq. and Everett Sq. and between Everett Sq. and Mattapan. $1,000,000. Engineer not selected.

Mass., Boston—Park Dept., plans resurfacing Glen Lane in Franklin Park to Forest Hills, Dorchester. To exceed $25,000. J. B. Shea, chn.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids Dec. 23, repaving, etc. Ditmars, Prospect and 6th Aves., 8th Ave. from Flushing to Potter Sts., and 8th Ave. from Jackson to Washington Sts.

New Jersey—Bd. Freeholders Mercer Co. (Trenton), making plans reconstructing 2.96 mi. Elm St.-Rosedale Rd., 18 ft. penetration macadam, at Princeton, $100,000; paving 7½ mi. Princeton Pike between Harneys Corner, near Trenton to Princeton, 60 ft., concrete, $500,000; resurfacing, etc., 2 mi. Washingtons Crossing-Titusville Rd., 18 ft., bituminous concrete, at Titusville, $75,240. H. F. Harris, Court House, Trenton, Co. engr.

N. J., Dover—Bd. Freeholders Morris Co., plans paving 2 mi. Dover-Mt. Freedom Rd., stone macadam. $44,624. W. Hopkins, engr.

Pa., Ebensburg — Comrs. Cambria Co. making plans constructing 11,468 ft. Adams-Croyle Twp. Rd., brick. L. R. Owen, co. engr.

N. C., Durham—Plans to expend $600,000 on street, water and sewer extensions in newly annexed sections. H. W. Kueffner, Durham, engr.

Miss., Jackson — Hinds Co. election in spring $200,000 bonds for road work. Noted Oct. 23.

Tenn., Johnston City—Election soon $32,000 bonds, paving various streets.

Ohio—Dept. Highways & Pub. Wks., Columbus, cancelled bids which were to be opened Dec. 26, grading, bridging and paving 0.18 mi. Sect. "Cadiz," Steubenville-Cambridge Rd., Harrison Co., and 1.305 mi. Sect. "Q" Steubenville-Cambridge Rd., Harrison Co. Noted Dec. 25.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids in spring, grading, laying sidewalks and cindering 1,350 cu.yd. Patterson Ave., et al., $32,000, 680 cu.yd. Alexander St., $8,500; grading, curbing, laying sidewalks and vitr. brick paving 10,510 sq.yd. Ackley St. et al., $100,000, 975 sq.yd. Courtney Pl., et al., $6,600, 11,525 sq.yd. North Case Ave., $80,000; grading, curbing and vitr. brick paving 4,035 sq.yd. Avon St., $25,000, 1,720 sq.yd. South Walnut St., $13,500; grading, curbing, laying sidewalks, resurfacing and sheet asphalt paving 860 sq. yd. North Case Ave., $6,500; grading, repaving, resurfacing and paving 400 ft. Wooster Ave., 320 sq.yd. vitr. brick, 2,400 sq.yd. sheet asphalt and 250 tons asphalt binder, $10,000; grading and sidewalks on 6,100 sq.yd. Hudson Ave., $5,500. E. A. Kemmler, 300 Delaware Bldg., engr.

O., Youngstown—Bd. Control takes bids in spring improving Zents Ave. from bayou to Wick Ave. $25,000. G. Turner, city engr.

Ind., Elwood—Madison Co. (Anderson), plans concrete paving and curbing, etc., 3.5 mi. portions of South "C," 13th and North "B" Sts., here, 25 to 30 ft. $50,000. A. Doyle, Anderson, engr.

Wisconsin — Bayfield Co. appropriated $38,615 for county and state road work, J. Friberg, comr.; Burnett Co. $14,500, G. E. Miller, Webster, comr.; Chippewa Co. $55,000, W. H. Taylor, Chippewa Falls, comr.; Clark Co. $24,500, O. J. Weymiller, comr.; Dane Co. $30,000, J. R. Caldwell, comr.; Door Co. $25,000, J. M. Laurie, comr.; Forest Co. $27,583, B. McKinley, comr.; Dodge Co. $336,125, E. T. Klug, Juneau, comr.; Jefferson Co. $24,000, R. D. Royce, Fort Atkins, comr.; Juneau Co. $12,000, A. V. Robison, comr.; Kenosha Co. $25,000, J. F. Herzog, comr.; La Crosse Co. $215,586, J. Hintgen, La Crosse, comr.; Manitowoc Co. $30,000, J. Connell, Manitowoc, comr.; Monroe Co. $40,181, C. Millard, comr.; Polk Co. $46,960, C. W. Nystrom, comr.; Racine Co. $13,000, W. A. Bechthold, comr.; Sawyer Co. $15,000, E. J. Collett, Hayward, comr.; Vilas Co. $6,500, W. F. Hunter, Eagle River, comr.; Washburn Co. $10,000, J. R. Allen, Spooner, comr.; Washington Co. $24,000, C. Johnson, West Bend, comr.; Waupaca Co. $20,000, J. Hufcut, comr.; Ozaukee Co. $102,826, W. J. Ubbink, Port Washington, comr.; Sheboygan Co. $182,963, G. W. Ubbelohde, comr.; Oneida Co. $24,006, C. Gross, comr.

Wisconsin—Eau Claire Co. appropriated $84,289 for road work, G. Osborne, Eau Claire, comr.; Outagamie Co. $145,513, A. G. Brusewitz, Appleton, comr.; Sauk Co. $186,208, W. Halbersleben, Baraboo, comr.

Wis., Darlington—Lafayette Co. appropriated $38,669 for county and state road work. H. I. Shockley, Darlington, comr.

Wis., Hudson — Saint Croix Co. appropriated $28,931 for county and state road work. H. P. Olson, Hammond, comr.

Wis., Juneau—Dodge Co. voted $200,000 bonds, gravel surfacing 3.5 mi. Richwood Rd. north to Highway 60, $21,000, and 2 mi. east to Trunk Highway 26, Watertown-Juneau Rd., $8,000; 1 mi. Lebanon-Ashippun Rd., $55,800; 1 mi. Horicon-Iron Ridge Rd., $4,000; 1 mi. Mayville-Brownsville Rd., $2,500; 5.5 mi. northern County Line Rd., $25,000; 1.5 mi. Juneau-Iron Ridge Rd., $7,000; 4 mi. State Trunk Highway 28 east of Trunk Highway 15, $24,000; 7.5 mi. Columbus-Randolph Rd. and 7.5 mi. Trunk Highway 73, $44,136; 4 mi. Trunk Highway 68 east of Browns Corners, $28,000.

Wis., Milwaukee—Dept. Pub. Wks. plans concrete, vibrolithic concrete, brick, asphaltic concrete or sandstone paving various streets. $2,500,000 available. R. E. Stoelfing, comr.

Ia., Leon—Plans paving, etc. about 18 blocks various streets. $65,000. L. L. Hutchinson, city clk.

Kan., Belleville—Republic Co. soon takes bids grading and brick or concrete surfacing 1.378 mi. Federal Aid Project 272-B, 18 ft. G. O. Gunnels, Belleville, engr. Noted Oct. 9.

Kan., Cottonwood Falls—Chase Co. making preliminary plans grading, bridging, etc. 7.061 mi. Federal Aid Project 256-A, 28 ft. G. H. Lamb, Jr., Cottonwood Falls, engr.

Kan., Council Grove—Morris Co. soon takes bids grading and gravel surfacing 4.452 mi. Council Grove-Herington Rd., 18 ft., Federal Aid Project 257-A, B and C. J. McKinney, Council Grove, engr.

S. D., Aberdeen—Plans paving about 10 blocks various streets. $50,000. L. Kohloff, city and.

Missouri—State Hy. Dept., Jefferson City, making plans 30 ft. grading 8.845 mi. Chillicothe-Hannibal Rd., Livingston Co., 5 mi. road from Alton east and west, Oregon Co., 4.624 mi. road from Alton south, Oregon Co., 4.962 mi. road from Bethany north, Harrison Co., 4.051 mi. road from Troy east and west, Lincoln Co., 1.875 mi. road from Spickard south, Grundy Co., 1.197 mi. Wellington-Lexington Rd., Lafayette Co.; 16 ft. gravel surfacing 4.926 mi. road from Bolivar north and south, Polk Co., 3.864 mi. Canton-Monticello Rd., Lewis Co.; 18 ft. gravel surfacing 8.928 mi. road from Mexico east, Audrain Co., 4.824 mi. road from Kirksville north, Adair Co.; 12 ft. gravel surfacing 4.325 mi. Stockton-Bolivar Rd., Polk Co., 4,235 mi. Stockton-Bolivar Rd., Cedar Co., 2.596 mi. road from Gainsville east, Ozark Co., 18 ft. gravel surfacing 4.115 mi. Greentop-Queen City Rd., Schuyler Co.; 9 ft. concrete surfacing 4.962 mi. road from Bethany north, Harrison Co. B. H. Piepmeier, ch. engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids concrete paving 24,000 yd. alleys in city blocks 457, 5557, 2806, 5254, 5258, 5278, 5122, 1430, 5123, 5505, 5315, 5468, 2855, 5574, 1884, 2278 and 2483, $72,250; grading, paving with willite on concrete paving, granite curbing, etc., Lafayette Ave., $32,550. W. W. Horner, city engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes new bids asphalt on concrete surfacing, granite curbing, etc. 2,010 sq.yd. Tennessee St. $14,400, 2,550 sq.yd. Francis St. $18,920, Bancroft St. $12,120. Former bids rejected. W. W. Horner, city engr.

Texas—See "Bridges."

Tex., Baird — Callahan Co. takes bids after Jan. 10, grading, asphaltic macadam surfacing and bridging 8.39 mi. State Highway 1, Federal Aid Project 52-C. $186,500. T. H. Webb, co. engr.

Tex., Boston—Bowie Co. had plans prepared and soon takes bids grading and concrete surfacing 10.71 mi. 18 ft. and 0.93 mi. 20 ft. on State Highway 5, from Texarkana to west side Precinct 1, $394,000; grading, rein.-con. surfacing and bridging 8.4 mi. State Highway 47 from Texarkana south, 18 ft. $315,000. D. K. Caldwell, Texarkana, engr.

Tex., Corpus Christi—Nueces Co. plans improving Brownsville Rd., 1,650 yd. mud shell hauled 1st 4th mi., and 38,000 yd. additional. $25,000. C. E. Cocke, Corpus Christi, engr.

Tex., El Paso—El Paso Co. takes bids after Jan. 15, surfacing with 2 in. bituminous on black base 15.2 mi. State Highway 1, Ysleta to Fabena, 18 ft. $410,500. F. E. Wilson, co. engr.

Tex., Hebbronville—Jim Hogg Co. plans caliche surfacing 5.91 mi. State Highway 12-A, from Duval Co. line to here. $35,000. E. J. Foster, Laredo, engr.

Tex., Kaufman—Kaufman Co. soon takes bids rein.-con. surfacing 3.91 mi. State Highway 15, extending east from Terrell, 18 ft., $105,000; 9.75 mi. State Highway 15, from Terrell west to Talty Forney Rd., 18 ft., $260,000; 6.62 mi. State Highway 15, west from Van Zandt Co. line, 18 ft., $175,000. S. J. Treadway, Cartwright Bldg., Terrell, engr.

Tex., Marlin—Falls Co. approved $115,000 bonds graveling 9 mi. road in Dist. 6. W. Hunnicut, judge. Engineer not announced.

Tex., Mission—Election Jan. 14 $40,000 bonds, permanent paving various streets. Address Mayor.

Tex., Quanah—Election Jan. 17, $600,000 bonds for road work. Engineer not announced.

Oklahoma—State Hy. Dept., Oklahoma City, made surveys grading, graveling 86,000 sq.yd. Wister-Summerfield Rd., Le Flore Co. $120,000. J. M. Page, highway engr.

Oklahoma — State Hy. Dept., Oklahoma City, made surveys grading and concrete paving 63,000 sq.yd. Blackwell-Tonkawa Rd., Kay Co. $175,000. J. M. Page, Capitol, Oklahoma City, engr.

Okla., Ada—Plans grading and concrete paving 7,300 sq.yd. 13th St., Dist. 14. $28,000. H. S. Darlington, Ada, engr.

Okla., Checotah — Voted $67,000 bonds vertical fibre brick resurfacing 22,000 sq. yd. Main St. and Bway. T. P. Clonts, 2110 Garland St., Muskogee, engr. Noted Dec. 4.

Okla., Chickasha—Grady Co. voted $650,000 bonds, grading 100 mi. various roads, 18 ft. J. M. Page. Capitol Bldg., Oklahoma City, engr. Noted Dec. 4.

Okla., Newkirk—Plans concrete paving 6 blocks Cedar, Maple and Plum Sts., 24 ft. $30,000. F. B. King, Grain Exch. Bldg., Oklahoma City, engr. Noted Dec. 25.

Okla., Norman—Plans grading and concrete paving 13,100 sq.yd. Dist. 26, $48,800. F. Cobb, Norman, engr.

Okla., Wetumka — Plans grading and vertical fibre brick surfacing 5,200 sq.yd. Canadian St. $26,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr.

Okla., Wewoka—Soon takes bids grading and 2.5 in. brick on concrete paving 29,800 sq.yd. Dist. 4. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 25.

Calif., Ontario—Making plans waterbound macadam and asphaltic concrete paving Mountain, Magnolia and Bon View Aves. To exceed $25,000. O. L. Roen, engr.

Streets and Roads (Continued)

Calif., Stockton—San Joaquin Co. made plans improving Middle Ave. in Sumner Home Tract, 2,000 cu.yd. grading, 3,230 tons gravel, 960 tons rock, 440 tons pea gravel, 390 bbls. asphaltic oil. F. E. Quail, co. surv.

Calif., San Diego—Common Council plans improving West Pl. Loma Blvd., Voltaire, Bacon and Defoe Sts., 393,158 sq.ft. 1.5 in. asphaltic concrete on 3 in. bituminous paving, 1,014 cu.yd. earth excav., 9,744 lin.ft. concrete curbs, etc. F. H. Rhodes, city engr.

Ont., Ft. William—Voted $26,000 bonds graveling or macadamizing 12,000 sq.yd. Chippewa Park Highway. C. B. Symes, city engr.

Ont., Goderich — Huron Co. plans road and highway improvements. $50,000. R. Patterson, County Bldg., engr.

Ont., Kincardine—Plans paving 25,000 sq.yd. Main and Queen Sts., concrete, bituminous concrete or waterbound macadam. $69,000. J. H. Scougall, town engr.

Ont., Leamington—Plans cement paving various streets. $35,000. W. E. Selkirk, mayor. Prices wanted on materials.

Ont., London — Middlesex Co. plans improving roads and highways. $75,000. Prices wanted on cement and broken stone. C. Talbot, County Bldg., engr.

Ont., Toronto—Plans grading Lawrence Ave. $42,500, Emerson and St. Clarens Aves. $17,650. R. C. Harris, city engr.

Ont., Toronto — Making plans grading lane between Gladstone and Bartlett Aves. $16,000, and lane bteween Markham St. and Palmerston Blvd. $1,950; concrete sidewalks on Franklin Ave. $1,740, Gledhill Ave. $502, Humewood Dr. $465, Brock Ave. $667, Connolly St. $769; concrete paving lane west of Huron St. $3,573; concrete curbing Indian Valley Crescent $163. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Brooklyn—Jan. 14, by E. Riegelmann, boro. pres., Boro Hall, restoring and repaving asphalt pavements in roadways where removed or damaged in connection with subsurface works; grading, curbing and flagging, etc., Rutland Rd., Lefferts and 20th Aves., East 31st, East 36th, Maple, 62nd, Richardson and 76th Sts.; asphalt paving Ave. K, East 31st, East 36th and 76th Sts., 15th and 20th Aves.

N. Y., New York—Jan. 14, by H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., grading, curbing, laying sidewalks, etc., on Pelham Parkway South, White Plains Rd., East 243rd, East 172nd, East 195th, East 213th and West 255th Sts., Adee, Haight, Quimby, Hermany, Liebig and Randall Aves.

N. J., Devils Lake — Jan. 10, by J. A. Kramer, aud. Ramsey Co., and State Highway Comn., Bismarck, graveling 16 mi. Federal Aid Project 168, 22,695 cu.yd. load, unload and spread, 41,100 cu.yd. mi. gravel haul, $25,000; grading 21 mi. Federal Aid Project 225, 118,797 cu.yd. earth and 2,375 cu.yd. rock excav., 29,073 sta.yd. overhaul, etc. $30,000.

Pennsylvania—Jan. 23 and 24, by State Dept. of Hys., Harrisburg, constructing 135 mi. 32 projects in 23 counties. W. H. Connell, engr. executive and deputy secy. of highways; adv. E. N.-R. Jan. 8.

N. C., Robertsonville—Taking bids 8,000 sq.yd. paving, also 5,000 lin.ft. curb and gutter, 3,000 cu.yd. grading, 2,400 sq.yd. concrete sidewalk, storm sewers, etc., on various streets. Carolina Eng. Co., Charlotte, engrs.

S. C., Aiken—Jan. 20, at office Bd. Comrs. Aiken Co., grading and sand clay surfacing 7.7 mi. State Route 12, State Project S-522-A. State Highway Engineer, 1626 Main St., Columbia, engr.

S. C., Saluda—Jan. 9, at office Saluda Co. Hy. Comn., grading, bridging, etc., 4.9 mi. State Route 19, State Project S-569-A. State Highway Engineer, Main St., Columbia, engr.

S. C., Winnsboro—Jan. 15, at office Fairfield Co. Hy. Comn., grading an topsoiling 9.4 mi. State Route 22, State Project S-535-A. State Highway Engineer, Main St., Columbia, engr.

Fla., Clearwater — Jan. 15, by Comrs. Pinellas Co., improving Roads 1 to 6 (inclusive), in Special Road and Bridge Dist. 6, here, 73 acres clearing and grubbing, 35,000 cu.yd. regular excav., 101,140 sq.yd. 6 in. and 70,900 sq.yd. 5 in. compacted lime rock base, 70,900 sq.yd. vitr. brick or asphalt block with asphalt filler, 104,640 sq.yd. sheet asphalt, asphaltic concrete or bituminous macadam; also Projects 1 to 9 (inclusive), in Special Road and Bridge Dist. 8, in Dunedin, 54 acres clearing and grubbing 57,660 cu.yd. regular excav., 70,465 sq.yd. 6 in. and 96,360 sq.yd. 5 in. compacted lime rock base, 70,465 sq.yd. double bituminous surface treatment with stone chip cover, 96,360 sq.yd. concrete, vitr. brick, asphalt block or asphaltic concrete paving. C. E. Burleson, co. engr.

Fla., Vero—Jan. 29, by City Council, improving various streets. Carter & Dameror, Vero, engrs.; adv. E. N.-R. Jan. 8.

Ala., Anniston—Jan. 30, by City Clerk, Kentucky rock asphalt or 2 in. warranted bitulithic on reconstructed slab paving 6 blocks 10th St. W., 30 ft. J. P. Harris, city engr.

Louisiana—Jan. 13, by State Hy. Comn., Reymond Bldg., Baton Rouge, gravel surfacing 6.4 mi. State Project 366 A1, Winnfield-Olla Highway, Winn Parish. W. B. Robert, state engr.

Louisiana—Jan. 27, by State Hy. Comn., Reymond Bldg., Baton Rouge, furnishing gravel and surfacing 7.3 mi. State Project 411 B, Minden-Springfield Highway, Webster Parish. W. B. Roberts, ch. engr.

Tennessee—Jan. 23, by State Dept. Hys. & Pub. Wks., Nashville, **(S. A. P. means State Aid Project, F. A. P. means Federal Aid Project)**, grading and bituminous macadam surfacing 8.56 mi. Woodbury-Warren Co. line Rd., 18 ft., F. A. P. 48-A, Cannon Co., incl. 2 over 20 ft. span, rein.-con. bridges, 11.84 mi. Murfreesboro-Cannon Co. line Rd., 18 ft., F. A. P. 48-B, Rutherford Co., incl. 1 concrete bridge over 20 ft. span; gravel and stone surfacing 19.03 mi. Decatur-Hamilton Co. line Rd., 16 ft., S. A. P. 140-B, Meigs Co.; sheet asphalt surfacing 15.16 mi. Paris-Kentucky State Line Rd., 16 ft., S. A. P. 146-B, Henry Co.; grading, etc., 0.5 mi. Gainesboro-Roaring River Bridge Rd., 16 ft., S. A. P. 135-C, Jackson Co., 6.95 mi. Forbes-Kentucky State Line Rd., 20 ft., S. A. P. 188, Pickett Co., incl. 2 over 20 ft. span timber bridges; grading and gravel surfacing 6.87 mi. Sorby-Hardin Co. line Rd., 16 ft., S. A. P. 186, Wayne Co., 7.57 mi. Wayne Co. line Rd., 16 ft., S. A. P. 187-A, Hardin Co. J. G. Creveling, highway engr.

Ill., Quincy — Jan. 29, by Bd. Local Impvts., about 68,000 sq.yd. asphalt and 16,345 sq.yd. concrete paving. W. P. Bushnell, city engr.; adv. E. N.-R. Jan. 8.

Ill., Urbana—Jan. 15, by Township Hy. Comrs., and Bd. Comrs. Champaign Co., 2 m.g. road oil. Separate bids for oil and spreading of same.

Mo., St. Louis—Jan. 27, by Bd. Pub. Serv., 208 City Hall, 20,000 sq.yd. concrete paving alleys in city blocks 3269, 1383, 1384, 1584, 2984, 4064, 4460, 5138, 5299S, 5261, 5232, 5246, 5365, 5396, 5527 and 5573. $60,500. W. W. Horner, city engr.

Ark., Ft. Smith—Jan. 21, at office G. T. Carnell, secy. Bd. Impvts. Paving Dist. 35, 14,720 sq.yd. 6 in. concrete, rein.-con. or 2 in. asphaltic concrete on 5 in. black base or 18,040 sq.yd. 6 in. vibrolithic concrete paving 7,000 cu.yd. excav., 690 ft. 12- to 18-in. sewers, etc. W. L. Winters, Ft. Smith, engr.

Ark., Van Buren—Jan. 22, at office E. L. Matlock, secy. and atty. Bd. Impvts. Paving Dist. 3, and Curb and Gutter Dist. 1, 10,000 cu.yd. excav., 21,030 sq.yd. 9 in. asphaltic concrete surfacing, etc. in Paving Dist. 3, 14,000 ft. straight curb and gutter, etc. in Curb and Gutter Dist. 1. W. L. Winters, Ft. Smith, engr.

Tex., Kaufman—Jan. 17, by C. Ashworth, judge Kaufman Co., paving 69,951 sq.yd. State Highway 15, Federal Aid Project 130-A, $175,000; 103,393 sq.yd. State Highway 15, Federal Aid Project 130-D, $260,000; 41,431 sq.yd. State Highway 15, Federal Aid Project 130-C, $103,500. S. J. Treadway, Cartwright Bldg., Terrell, engr. Noted Jan. 8.

Tex., Sulphur Springs—Jan. 13, by R. E. Bertram, judge Hopkins Co., grading and bridging 15.62 mi. State Highway 11, 26 ft. $77,000. J. B. Rieman, co. engr.

Tex., Van Buren — Jan. 22, by Mayor, permanent paving in Paving Dist. 3, concrete curbing in Curb Dist. 1. $116,000. Address City Commissioners.

Okla., Checotah—Jan. 15, by A. P. Sanders, mayor, vertical fibre brick resurfacing 19,800 sq.yd. Main St. and Bway. T. P. Clonts, 2110 Garland St., Muskogee, engr. Noted Nov. 20.

Calif., Richmond — City Council taking bids improving MacDonald Ave. between 23rd St. and San Pedro Ave., 10,500 cu.yd. cut, 1,300 cu.yd. fill, 218,914 sq.ft. 2 in. National on 4 in. asphaltic concrete, etc. E. A. Hoffman, city engr. Noted Dec. 25.

Calif., Santa Ana—City Council taking bids improving Orange Ave. between McFadden and East Edinger Sts., 110,328 sq. ft. 5 in. and 110,954 sq.ft. 6 in. concrete paving, etc. N. H. Neff, city engr.

Calif., San Jose—Supervs. Santa Clara Co. taking bids improving 2.5 mi. Watsonville Rd., 13,000 cu.yd. excav., 8,000 cu.yd. fill, 4 in. gravel surfacing, 18 ft. wide. R. Chandler, co. surv.

BIDS RECEIVED

Massachusetts—Dept. Pub. Wks., Div. Highways, Boston, bituminous macadam paving 21,012 ft. highway, in Fitchburg and Westminster, from C. Bianci & Co., Framingham, $211,824. Noted Dec. 25.

N. Y., Brooklyn — E. Riegelmann, boro pres, Boro Hall, Dec. 29, grading, curbing and flagging Kings Highway, from A. E. Castle, Inc., 3313 Tilden Ave., $235,162. Noted Dec. 25.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., Dec. 30, from W. H. Gheoghegan Realty Co., 147 Remsen St., Brooklyn, grading and constructing bulkheads, etc. on Beach Channel Dr. $509,115; from Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., grading, curbing and sidewalks on Bragaw St. $16,240, from Pegno Constr. Co., 380 Freeman Ave., Actoria, Wilbur Ave. $6,955, 124th St. $5,555, 98th St. $9,634, from Welsh Bros. Contg. Co., 32 Queens St., Astoria, Ivy St. $1,830, from F. Soviero, Union Course, Brooklyn, 92nd St. $9,300; from H. Kordes Co., 2577 Cooper St., Brooklyn, grading, etc. Steuben St. $8,271; from Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, paving 92nd St. $16,300, grading, curbing, etc. 99th St. $17,691, grading, curbing and flagging 109th St. $13,025. Noted Dec. 25.

N. Y., New York—H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., Dec. 29, granite blocks repaving Park Ave., from J. Meehan & Son, 74 Cortlandt St., $18,084. Noted Dec. 25.

N. J., Barnegat—State Hy. Dept., Trenton, dredging section of inland waterways to connect Barnegat Bay with Manasquan Inlet, Ocean Co., from Delaware Dredging Co., 139 South 3rd St., Philadelphia, $0.64 per cu.yd. Engrs. est. $39,000.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, constructing Archibald-Monroe and Monroe-Winnsboro Highway, from Pickard Constr. Co., $61,413. Noted Dec. 18.

La., Baton Rouge—City Comn. improving various streets, 94,314 sq.yd. gravel, 81,582 ft. curb and gutter, etc., from Thibodeaux & Harrison, Baton Rouge, $167,000. Noted Dec. 4.

Michigan — State Hy. Dept. at office Comrs. Lapeer Co., Lapeer, grading and gravel surfacing 2.967 mi. Assessment Dist. Rd. 460, Lapeer and Genesee Counties, from Puger & Hawkins, Bay City, $41,562. Noted Dec. 18.

Ill., Altamont—Bd. Local Impvts., Dec. 29, improving Paving Dist. 1, 13,734 cu.yd. excav., 38,361 sq.yd. 8 in. concrete paving, 9,057 lb. reinforcing, 23,417 ft. concrete curbing, 1,785 ft. 10 and 16 in. vitr. clay pipe, etc., from Cole-Fauber, Marion, $110,600. Engrs. est. $131,000. Noted Dec. 11.

Ia., Des Moines—Polk Co., Dec. 23, from O'Rourke Eng. & Constr. Co., 1215 Mulberry St., improving 7.3 mi. Johnston Station Rd., W., Federal Aid Project 215, 86,136 sq.yd. concrete paving at $2.63 per sq. yd., and 42,390 cu.yd. excav. $0.75, etc., total $258,332; from Wright Constr. Co., 211 Flynn Bldg., 9.37 mi. Des Moines Rd., E., Federal Aid Project 216, 110,719 sq.yd. concrete $2.73 and 78,402 cu.yd. excav. at $0.79, etc., total $366,930.

Kan., Atchison — Atchison Co., Dec. 12, from J. Stanton, Leavenworth, fine grading and surfacing 6.211 mi. Federal Aid Project 100, 18 ft., plain concrete $173,717, vibr. concrete $206,952, brick $246,833, also 3.32 mi. Federal Aid Project 112, 18 ft., plain concrete $92,244, vibr. concrete $109,952, brick $131,201. Noted Dec. 4.

Missouri—State Hy. Dept., Jefferson City, Dec. 19, from C. T. Johnson, Warrensburg, 18 ft. rock asphalt surfacing 5.69 mi. St. Joseph-Gower Rd., Clinton Co. $67,124, 2.423 mi. road frmo Edinburgh west, Grundy Co. $31,853, 18 ft. penetration macadam surfacing 3.975 mi. St. Joseph-Gower Rd., Clinton Co. $45,086, 2.423 mi. road from Edinburgh west, Grundy Co. $31,853, grading and 18 ft. asphaltic concrete surfacing 2.423 mi. road from Edinburgh west, Grundy Co. $66,158; from Maley & Rixey, Kansas City, grading and 18 ft. penetration macadam surfacing 1.715 mi. St. Joseph-Gower Rd., Clinton Co. $40,378, grading 3.975 mi. same road $55,891; from Talbert Bros., Fordland, grading 4.178 mi. road from Licking north, Dent Co. $25,863, 3.642 mi. road from Salem south, Ralls Co. $15,097, from E. F. Eberhardt Paving Co., Salina, Kan., 5.766 mi. Hannibal-St. Joseph Rd., Ralls Co. $32,333; from Summerfield-Jones Co., Billings, 3.668 mi. road from

Streets and Roads (Continued)

Salem south, Dent Co. $28,519, 3.875 mi. road from Ava west, Douglas Co. $41,769, two 10 ft. rein.-con. slab spans, etc., over Dry Run Creek, $2,108, three 12 ft. rein.-con. slab spans, etc., over Licking Creek, $2,724, both Texas Co.; from M. Haase, St. Joseph, grading 3.678 mi. Kansas City-St. Joseph Rd., Platte Co. $32,299, from H. C. Botsford, Lawrence, Kan., 4.73 mi. Kansas City-St. Joseph Rd., Platte Co. $49,668; from J. Stanton, Leavenworth, Kan., 18 ft. concrete surfacing 5.766 mi. Hannibal-St. Joseph Rd., Ralls Co. $70,627, 4.374 mi. Hannibal-Ely Rd., Marion Co. $53,439, from Metropolitan Paving Co., St. Joseph, 5.69 mi. St. Joseph-Gower Rd., Clinton Co., $69,-318; from Stonner & Deering, Chamois, 16 ft. gravel surfacing 2.924 mi. Wellsville-Montgomery City Rd., Montgomery Co. $8,734, from F. Kersting Co., Jefferson City, 2.915 mi. Montgomery City-Wellsville Rd., Montgomery Co. $7,820; from J. A. Kerr, Ozark, 16 ft. chat surfacing 4.116 mi. Aurora East and West Rd., Lawrence Co. $33,825; from J. H. Stephens, Mansfield, 12 ft. gravel surfacing 4.999 mi. Jefferson City-Eldon Rd., Cole Co. $16,859; from Republic Concrete Constr. Co., Republic, two 40 ft. rein.-con. deck girder spans, etc., over Beaver Creek, Douglas Co. $5,029; from Cook-O'Brien Constr., 305 Railway Exch. Bldg., Kansas City, three 20 ft. rein.-con. slab spans, etc., over Owl Creek, Platte Co., $4,863. Noted Dec. 18.

Tex., Brenham—Washington Co., grading and bridging Greenvine Rd., from Womack Constr. Co., Sherman, $30,604. Engrs. est. $33,000. Noted Dec. 11.

Tex., Henrietta—Clay Co., grading and bridging 9.25 mi. State Highway 50, Federal Aid Project 449-A, 26 ft., from J. M. Purvis, Ft. Worth, $66,818. Engrs. est. $104,014. Noted Dec. 11.

Tex., Houston—Harris Co., surfacing Hill St. from Odin Ave. to Hill St. Bridge, from Texas Willite Road Constr. Co., 102 Standard Bldg., bituminous macadam $60,845, brick $74,646.

Tex., Sweetwater — Nolan Co., grading, surfacing with sledged stone base, and crushed rock surfacing with bituminous topping 12.48 mi. State Highway 70, State Aid Project 534, 16 ft., from Sullivan & Davis, Granger, $131,257. Engrs. est. $168,192 incl. material furnished by county, engineering and contingencies. Noted Dec. 11.

Calif., El Cerrito — Improving Lincoln, Oak, Eureka Sts., etc., 240,000 sq.ft. 1.5 in. Warrenite-bituminous on 2.5 in. asphaltic concrete, 15,246 lin.ft. concrete curbing, 26,-221 sq.ft. grading, etc., from A. J. Crocker, 58 2nd St., San Francisco, $79,965.

Calif., Los Angeles—Supervs. Los Angeles Co., from J. Kirst, R. F. D. 4, Box 683, improving Helena St., Impvt. Dist. 81, 1,368 cu.yd. excav. at $0.85 per cu.yd., 2,655 sq. yd. shape roadway $0.09, 2,655 sq.yd. grading, oiling and screen surface $0.50, 1,885 lin.ft. curbing, sidewalks, etc., $0.65; from P. L. Hedricks, 1016 Sanborn Ave., improving Kern Ave., Impvt. Dist. 74, 7,354 cu.yd. excav. $0.55, 8,216 sq.yd. shape roadway $0.09, 2,576 lin.ft. curbs $0.50, 10,350 sq.ft. sidewalks $0.185, 5,957 sq.yd. 5 in. macadam paving $1.20, 2,259 sq.yd. 1.5 in. macadam paving $0.45; from G. R. Curtis, 2440 East 26th St., improving Flower St., Impvt. Dist. 125, 1,688 cu.yd. excav. $0.80, 4,471 sq.yd. shape $0.09, 2,505 lin.ft. curbs $0.65, 12,571 sq.ft. sidewalks $0.20, 4,471 sq. yd. 2 in. Willite top $1.00, 4,471 sq.yd. asphaltic concrete base $1.30, Inglewood Ave., Impvt. Dist. 149, 8,508 cu.yd. excav. $0.80, 28,103 sq.yd. shape $0.09, 10,331 sq.ft. curbs $0.65, 10,622 sq.ft. gutters $0.30, 28,-103 sq.yd. 2 in. Willite top $1.00, 28,103 sq. yd. Willite paving $1.30; from G. H. Oswald, 366 East 58th St., improving Parthenia St., grading $2,535, 126,727 sq.ft. asphaltic concrete $0.156; from Griffith Co., Railway Bldg., improving Palm Springs Dist., 230,538 sq.ft. 1.5 in. Topeka surface on 3.5 in. asphaltic concrete, 55,956 sq.ft. resurfacing, 12,971 lin.ft. curbing, $63,000. Noted Dec. 18.

Calif., San Diego—A. H. Wright, city clk., Dec. 29, from G. R. Daley, 443) Boundary St., improving Ibis, Ingalls, and four other streets, 38,391 sq.ft. 1.5 in. asphaltic concrete on 2.5 in. bituminous at $0.209 per sq. ft., 96,974 sq.ft. 1.5 in. on 2.5 in. asphaltic concrete $0.167, 1,335 lin.ft. concrete curbing $0.67, 2,114 sq.ft. concrete sidewalks $0.23, etc., total $26,051. Noted Dec. 18.

CONTRACTS AWARDED

Massachusetts — Dept. Pub. Wks., Div. Highways, Boston, bituminous macadam paving 21,666 ft. highway in Framingham, Ashland and Holliston, to Lane Constr. Corp., Meriden, $85,599; 2,109 ft. highway, in Whitman, to Powers Bros., 161 Montello St., Brockton, $15,347. Noted Dec. 11.

Massachusetts — Dept. Pub. Wks., Div. Highways, bituminous macadam paving 17,-333 ft. highway in Fairhaven and Mattapoisett, to New Haven Road & Constr. Co., New Haven, Conn., $128,300. Noted Dec. 11.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and sidewalks on Hobson Ave. to H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, $32,523, 112th St., to Uvalde Asphalt Paving Co., 1 Bway., New York City, $18,340; sheet asphalt repaving Astoria Ave., to A. A. Johnson Corp., Queens Blvd., $40,235, Bway., to W. P. McDonald Co., 17 West 42nd St., New York City, $36,475. Noted Jan. 1.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., to Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., Jackson Ave. $117,373; to Sicilian Asphalt Paving Co., 41 Park Row, New York, recurbing, reflagging and paving 14th Ave., $16,568; to Uvalde Asphalt Paving Co., 1 Bway., New York City, grading, curbing and sidewalks on 92nd St. $10,817, permanent paving 104th St. $38,005. Noted Jan. 1.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., sheet asphalt repaving Lexington and 5th Aves., to W. J. Fitzgerald, 547 West 45th St., $33,903 and $5,712 respectively. Noted Jan. 1.

W. Va., Harrisville—Ritchie Co. improving 2.52 mi. Pullman-Auburn Rd., in Union Dist., to Goff & Hoskins, Goff, $26,342.

Alabama—State Hy. Dept., Montgomery, **(e. e. means engineers estimate)**, gravel surfacing 12.6 mi. Greenville-Wedgworth Rd., 18 ft., Hale Co., to E. L. Ellis, Gainsville, $94,855, e. e. $95,000; grading and gravel surfacing 15 mi. Davenport-Ft. Deposit-Montgomery Co. line Rd., 18 ft., Lowndes Co., and 9 mi. Monroeville-Camden Rd., 18 ft., Monroe Co., to N. Giddens, Troy, $214,431 and $86,289 respectively, e. e. $215,000 and $86,500 respectively; asphalt and chirt surfacing 7.16 mi. Florence-Killen Rd., 18 ft., Lauderdale Co., to Uvalde Paving Co., Insurance Bldg., Dallas, Tex., $199,525, e. e. $200,000. Noted Nov. 20.

From Chicago

"Construction is not slowing down in Chicago or Illinois; rather it is booming along much better than last winter. Next year, from reports, rumors, etc., will be bigger and better than 1924. There is $200,000,000 worth of work on which plans are already drawn, and this figure does not include the smaller flat and apartment buildings. Chicago is set for a big and prosperous year, with the brakes off and the foot on the gas."

Construction News Correspondent

Ala., Bessemer—See "Buildings-Industrial under Proposed Work."

Miss., De Kalb—Kemper Co., grading, surfacing, etc., 8.907 mi. Federal Aid Project 107-A, to Meyer & Greenwald, Meridian, Miss., $99,347. Noted Dec. 4.

Miss., Cleveland — Hushpuckana D. D., main ditches, to G. S. Funk, Shelby, and plow ditches, to Stokes Bros. & Co., Waterloo. Work involves 173,936 cu.yd. excav. Noted Dec. 11.

La., Alexandria — Rapides Parish, hard-surfacing, etc., 1 mi. Alexandria-Leesville Rd., to A. J. Singletary, Oakdale, $21,645; and 5 mi. Seiper Rd. to A. M. Wilks, Alexandria, $18,649.

La., Baton Rouge — Improving various streets, 17,272 sq.yd. hardsurface on concrete, 11,290 ft. curb and gutter, etc., to E. J. Deas, Monroe, $60,400.

La., Bossier City — Bd. Comrs. Gravity Dist. 1, excavating about 50 mi. canal in Bossier Parish, to Howard Kenyon Dredging Co., 3603 McKinney Ave., Houston, Tex., $314,169; cleaning out right of way of canal, to Douglas, Buchanan & Crow, Shreveport, $43,200.

Tennessee—State Dept. Hyds. & Pub. Wks., Nashville, making surveys grading and probably gravel surfacing, 7 mi. road from State Aid Project 187-A to Savannah, 16 ft., J. G. Creveling, highway engr.

Wis., Milwaukee—Bd. Pub. Wks., improving 1st Ave. between Mitchell and Maple Sts., 1,627 sq.yd. asphaltic concrete resurfacing, etc., to White Constr. Co., 68 Wisconsin St., $3,803; Albert Pl. between Louis and Green Bay Aves., 4,242 sq.yd. vibrolithic concrete paving, 6,041 cu.yd. excav., 14,786 sq.ft. concrete sidewalks, etc., to J. C. Bluhm & Sons, 1298 Achilles Pl., $18,587; Lapham St. between 18th and 19th Aves., 1,296 sq.yd. 7 in. vibrolithic concrete paving, 7,362 cu.yd. excav., etc., to R. Gumz, 831 13th Ave., $8,401.

Ia., Des Moines—Polk Co., to O'Rourke Eng. & Constr. Co., 1215 Mulberry St., grading, paving, etc., 7.3 mi. Johnston Station Rd., Federal Aid Project 215, 86,136 sq.yd. concrete at $2.63 per sq.yd., 42,390 cu.yd. excav. $0.75, etc., total $258,333; to Wright Constr. Co., 211 Flynn Bldg., 9.37 mi. road from Des Moines East, Federal Aid Project 216, 110,119 sq.yd. concrete $2.73, and 78,402 cu.yd. excav. $0.79, etc., total $366,930. Noted Jan. 8.

Kan., Burlingame — Improving Federal Aid Project 266-B, to M. M. Penny Constr. Co., Ponco City, Oklahoma, $86,975.

Kan., Junction City—See "Bridges."

Kan., Lyndon—Osage Co. grading, etc., 4.842 mi. Federal Aid Project 266-A, to Holman & Kanode, Topeka, $15,509; culverts, to Gruneman & Son, Metawaka, $14,-387. R. Hopper, Lyndon, engr.

Kan., Winfield—Cowley Co., grading, etc., 7.185 mi. Federal Aid Project 230-A and B, to Maney Bros. & Co., Oklahoma City, Okla., $28,088. Noted Nov. 27.

N. D., Bismarck—Burleigh Co., paving, etc., 2.384 mi. Federal Aid Project 244, 15,-391 cu.yd. earth and 220 cu.yd. rock excav., 8,520 cu.yd. overhaul, etc., to Haggart Constr. Co., Fargo, $123,365. F. J. Johnson, co. aud.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Webb-Kunze Constr. Co., 5927 Fyler Ave., asphalt on concrete surfacing Louisville St. $33,221; to Granite Bituminous Paving Co., Railway Exch. Bdlg., Warrenite on concrete paving Davison St. $26,491, Emerson St. $29,111, Thomas St. $25,341, Varrelman St. $5,772; to Blackburn-Crean Constr. Co., Chouteau Trust Bldg., concrete paving, etc. Hoffman St. $13,736, granite recut block repaving, etc. Arsenal St. $22,120. Noted Nov. 27.

Arkansas—State Hy. Dept., Little Rock, grading, bridging etc. 12.19 mi. Federal Aid Project 183-D and G, 18 ft., Dist. 4, Lee Co., to W. H. Denison, Cushman, $63,238. This corrects report in Nov. 27 issue.

Tex., Alice—Jim Wells Co., grading and bridging 16.1 mi. State Highway 12, 26 ft. shoulder to shoulder, to Armstrong & Armstrong, Roswell, N. M., $93,389, engrs. est. $108,550; grading 14.42 mi. State Highway 12, 26 ft., to D. H. Buchanan, Temple, $25,907, bridge on same, to Armstrong & Armstrong, Roswell, N. M., $35,205, engrs. est. $72,000. Noted Dec. 25.

Tex., Jacksboro—Jack Co., **(e. e. means engrs. est.)**, to Haden & Austin, Santa Fe and Runnels Sts., Houston, surfacing with sledged stone and bituminous macadam topping 16.94 mi. State Highway 24, Federal Aid Project 437-B, 17 ft., $185,214, e. e. $213,500, 16.68 mi. State Highway 24, Federal Aid Project 441-A, 18 ft., $179,385, e. e. $196,404; grading, surfacing with asphaltic macadam on sledged stone and bridging 17.38 mi. State Highway 39, 18 ft., $273,350, e. e. $311,962. Noted Jan. 1.

Tex., Palestine—Anderson Co., grading and surfacing with local material, etc., 10.7 mi. Palestine-Tennessee Colony Rd., 16 ft., and 15 mi. Palestine-Rusk Rd., 16 ft., to N. M. George Constr. Co., Dubach, La., $58,-483 and $64,787 respectively. Engrs. est. $80,000 and $115,000 respectively. Noted Dec. 25.

Tex., San Benito—J. S. Brown, mayor, 5 in. concrete paving 66,000 sq.yd. portions of Sam Houston, Reagon, Crockett, Dick, Bowling, Travis and Bowie Sts., to Harris, Spaulding and Ranney, San Antonio, $2.48 per yd. Engrs. est. $150,000. Noted Nov. 20.

Tex., Seymour—Baylor Co., grading and bridging 14.47 mi. State Highway 30, Federal Aid Project 452-A, 26 ft., to Bucy & Childs, Rising Star, $31,144. Engrs. est. $42,234. Noted Jan. 1.

Tex., Seymour—Baylor Co., grading and bridging 12.72 mi. State Highway 24, Federal Aid Project 455-A, 26 ft., to McClellan & Stroup, Wichita Falls, $39,536. Engrs. est. $44,000. Noted Jan. 1.

Streets and Roads (Continued)

Tex., Vernon—Wilbarger Co., grading, rein.-con. paving and bridging 5.26 mi. State Highway 5, 18 ft., to J. P. Foty, Vernon, $157,675. Noted Jan. 1.

Oklahoma — State Hy. Dept., Oklahoma City, grading, etc., 5 mi. State Aid Project 90, Garfield Co., 73,164 cu.yd. earth and 815 cu.yd. rock excav., 56,383 cu.yd. borrow, 61,667 lb. reinforcing, etc., to Garfield County Constr. Co., Enid, $30,770, engrs. est. $35,000; grading and surfacing 1.487 mi. State Aid Project 67, Tulsa and Pawnee Counties, 16,498 sq.yd. concrete, 4,851 cu.yd. earth and 729 cu.yd. rock excav., 1,968 cu.yd. borrow, 17,017 lb. reinforcing, etc., to Pearce & Hansen, Edmond, $44,180, engrs. est. $50,000.

Okla., Clinton — Grading and surfacing Frisco Ave., 5,300 sq.yd. asphalt (Willite process) on 5.5 in. black base, to Western Paving Co., Tradesmens Natl. Bank Bldg., Oklahoma City, at $3.40 per sq.yd., total approximately $65,000. This corrects report in Dec. 11 issue.

Calif., Glendale—To E. L. Fleming, 114A South Brand Blvd., improving Verdugo Canyon Rd., etc., 56,740 sq.ft. grading at $0.02 per sq.ft., 4,672 sq.ft. 5 in. concrete paving $0.22, 6,056 sq.ft. 5 in. oil macadam paving $0.13, 22,660 sq.ft. 3 in. oil macadam paving $0.105, etc., total $27,361.

Calif., Huntington Park—City Trustees, paving, etc., Walnut St., 1.5 in. Topeka on 3.5 in. asphaltic concrete, to G. M. Souter, 410 9th St., Huntington Beach, $27,675. Noted Oct. 9.

Calif., Los Angeles — For 8 in. concrete paving, oiling and rolling Central Ave., to Chalmers & Ford, H. W. Hellman Bldg., $43,362; asphalt on bituminous paving, curbing, guttering, etc., New Hampshire Ave., and asphalt paving, curbing and guttering, etc., Van Ness Ave., to G. R. Curtis Co., Inc., 2440 East 26th St., $12,469 and $12,225 respectively.

Calif., Los Angeles — Supervs. Los Angeles Co., grading, concrete paving, etc., 35,767 sq.yd. Durfee Ave., Impvt. Dist. 254, to T. W. Oglesby, 423 Edgewood Ave., Santa Ana, $44,757. Noted Dec. 25.

Calif., Santa Monica — Improving Montana Ave., to Kneen Paving Co., Dudley Block, Santa Monica, 408,407 sq.ft. grading at $0.04 per sq.ft., 408,407 sq.ft. warrenite on asphaltic concrete paving $0.193, etc., total $107,255. Noted Dec. 18.

Calif., Signal Hill (Burnett P. O.)—For 2 in. Willite on 4 in. asphaltic concrete surfacing Burnett and Cherry Sts., etc., to G. R. Curtis, 2440 East 26th St., Los Angeles, $68,220.

Buildings—Industrial

PROPOSED WORK

Mass., Everett (Boston, P. O.)—Plant—Beacon Oil Co., 111 Devonshire St., Boston, plans 2 and 3 story addition Beacham St., here. $50,000. Engineer and architect not selected.

N. Y., Albany—Plant—J. B. Lyon Co. plans printing plant. $1,000,000. Engineer and architect not selected.

N. Y., Buffalo — Plant — Amer. Lithographic Co., 601 Amherst St., does not plan to enlarge plant. This corrects report in Dec. 18 issue.

Pa., Brockwayville — Plant — Bradford Brick & Tile Co., Bradford, making preliminary plans various buildings for plant, here. $2,000,000. D. B. Hendryx, c/o owner, engr.

Ga., Atlanta—Bakery—Natl. Biscuit Co., 467 Wall St., J. M. Cooper, dist. sales mgr., having tentative plans prepared bakery, 375 ft. front, East Hunter Hill and Fort Sts. along Georgia R.R. tracks, with switching for 25 cars. $1,000,000.

Ala., Bessemer — Plant — Harbinger-Walker Refractories, Farmers Bldg., Pittsburgh, Pa., soon lets contract clay products plant on 32d St. from 5th to Arlington Aves., here. $500,000. Excavation contract awarded to Bessemer Eng. Constr. Co., Bessemer, $26,000. Noted Oct. 16.

La., Mansura—Plant—See "Waterworks."

Tenn., Memphis—Roundhouse, Storage, etc.—Louisville & Nashville R.R. Co., 60 North Main St., A. B. Scates, supt., having plans prepared improvements in Leewood yards, incl. new round house, trackage, storage, etc. $150,000. W. H. Courtnay, ch. engr.

O., Canton—Factory—United Alloy Steel Corp., 1949 Harrison Ave., S. W., plans two 1 story brick and steel factory buildings. $100,000. G. H. Charls, genl. mgr.

O., Cleveland—Factory and Warehouse Sterling Brass Co., S. Weil, pres., 9600 St. Catherine Ave., having plans prepared by A. Sogg, 3030 Euclid Ave., 2 story and basement, 40x125 ft., brick, steel and concrete, St. Catherine Ave. $75,000. Noted Oct. 9.

O., Cleveland—Plant—Brooks Co., J. Caldwell, pres., 715 Superior Ave., having preliminary plans prepared by W. S. Lougee, 500 Marshall Bldg., 4 story and basement, 108 x 132 ft., rein.-con. and brick printing plant, 1240 Oregon Ave. $300,000.

O., Youngstown — Storage Plant — Youngstown Cold Storage Co. plans 6 story, 132 x 165 ft. plant, 908-912 West Rogers Ave. $300,000.

Mich., Detroit—Plant—G. B. Bright Co., engrs., 2615 12th St., preparing plans 4 story and basement, cold storage plant, rein.-con., brick and steel, plain foundation. $1,000,000. Owner's name withheld.

Mich., River Rouge—Plant—Ford Motor Co., Highland Park (Detroit P. O.), having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 and 2 story, 140 x 400 ft., rein.-con., steel and brick plant, here.

Wis., Waupun—Factory—F. J. Stepnoski, archt., Forest Ave., Fond du Lac, rejected bids for superstructure 2 story and basement, 40x76 ft., brick and timber, North Water St., for Teeple Shoe Co., c/o H. M. Larson, mgr. $40,000. Will readvertise. Noted Dec. 25.

Ia., Des Moines—Creamery—Northland Milk & Ice Cream Co., 11 West 28th St., Minneapolis, Minn., E. B. Nelson, secy., purchased site and having preliminary sketches made 2 story and basement, rein.-con. and brick, 6th St. and Grand Ave., here. $75,000. Engineer and architect not announced.

Mo., St. Joseph—Plant—Defeated $300,000 bonds for light plant. Noted Dec. 11.

Tex., Brownfield—Plant—W. H. Allen, mgr. Texas Utilities Corp., making plans ice plant. $50,000. Private plans.

Tex., Kingsville—Plant—J. M. Glover, archt., Bankers Mortgage Bldg., Houston, soon takes bids addition to ice plant, brick and steel, for Kingsville Com. Co. $42,000.

Tex., Trinidad — Plant — Texas Public Utilities Co., Interurban Bldg., Dallas, and Southwestern Power & Light Co., 71 Bway., New York City, having plans prepared power plant, 40,000 kw. steam operated plant on Trinity River, final capacity 150,000 kw., will develop adjacent lignite land for fuel supplies, near here. Private plans.

Tex., Victoria—Cold Storage—R. E. Hill (Hill Grain Co.), making plans 1 story, cold storage plant, incl. machinery. $40,000. Private plans.

Okla., El Reno—Mill—El Reno Milling Co. having preliminary plans prepared by K. E. Humphrey, 7 story, 42 x 103 ft., rein.-con., plain foundation, incl. 6 storage tanks, etc., Railroad St. $225,000.

Okla., Sand Springs—Shop—Sand Springs Ry. Co., making preliminary plans rebuilding 1 story, 110 x 260 ft., timber, plain foundation, to replace one recently destroyed by fire. $200,000. C. O. Tingley, Sand Springs, ch. engr.

Colo., Denver—Victory Laundry & Cleaning Co., Denver, plans plant. $250,000-$300,000. M. O. True, pres.

Calif., Hayward—Plant—K. Scoville, 625 Bway., Oakland, plans metal and glass motion picture plant. To exceed $150,000.

Calif., Los Angeles—Shop and Loft—C. E. Taberman, 6763 Hollywood Blvd., having plans prepared by Morgan, Walls & Clements, 1124 Van Nuys Bldg., 4 story, 31 x 135 ft., rein.-con., steel, terra cotta and tile, Hollywood Blvd. To exceed $150,000.

Calif., Los Banos—Power house—See "Excavation, Drainage, Irrigation, Levees."

Calif., Santa Barbara—Plant—Puritan Ice Co. plans approximately 100 x 100 ft. addition, 5,000 ton capacity. $75,000.

Ont., Highgate—Garage—G. H. Luther, plans rebuilding garage and repair shop, recently destroyed by fire. $40,000.

Ont., London—Hunt Milling Co., plans rebuilding mills, recently destroyed by fire. $750,000. Prices wanted on materials. J. I. A. Hunt, pres.

BIDS DESIRED

Mass., Lynn—Repair and Service Garage—R. T. Pender, 41 Sutton St., taking bids 1 story, 50 x 160 ft., brick and tile, Washington St. $40,000. Sanborn & Weed, 38 Exchange St., archts. Noted Dec. 4.

Mass., Winthrop — Repair and Service Garage—F. Piscopp, 1957 Commonwealth Ave., Brighton, taking bids 1 story, 55 x 100 ft., rein.-con. and brick, Magees Corner, here. $40,000. A. J. Halfenstine, 143 Washington St., Brookline, archt.

Pa., Phila.—Brew and Mill House—Jan. 12, by C. E. Wunder, archt., 1525 Locust St., 5 and 6 story, 58 x 90 ft., rein.-con. and brick, plain foundation, for J. Horning, 2125 West Clearfield St. $200,000.

Pa., Phila.—Plant—Conkling-Armstrong Terra Cotta Co., Denckla Bldg., will build 3 story and basement, 50 x 128 ft., rein.-con. and brick, plain foundation, Wissahickon Ave. near Hunting Park. $4[illegible]000. Work will be done by separate contracts. Private plans.

O., Cleveland — Factory — General Glass Co., c/o I. Copperstein, 6009 Carnegie Ave., taking bids 1 and 2 story 96x261 ft., brick and steel, 10,626 Cedar Ave. $75,000. L. Skolnik, Sixth-St. Clair Bldg., archts.

CONTRACTS AWARDED

Mass., Boston—Boiler House and Garage—Eastern Steam Laundry, 941 Massachusetts Ave., 1 and 2 story, 65 x 95 ft., brick and steel, Massachusetts Ave., to McNally Constr. Co., Framingham. Archts. est. $700,000. Noted Dec. 18.

Mass., East Northfield—Laundry—Hotel Northfield, 1 and 2 story and basement, brick laundry, to Hoyt Constr. Co., 85 Dartmouth St., Holyoke. Archts. est. $40,000.

Mass., Wellesley—Laundry—Lake Waban Laundry Co., 2 and 3 story, rein.-con. and brick, Central St., to Austin Co., 217 Bway., New York City.

R. I., Pawtucket—Factory—Darlington Textile Co., Hughes Ave., 3 story, 80 x 100 ft., brick addition, plain foundation, Hughes Ave., to Rowley Constr. Co., 260 Central Ave. Archts. est. $90,000.

Conn., Rockville—Millstorage—Hockanum Mills Co., F. T. Maxwell, pres., 1 story, 66x80 ft., brick, steel and timber, East Main St., to H. Wales Lines Co., Meriden. Archts. est. $50,000.

N. J., Trenton—Plant—W. and J. Sloane, 5th Ave. and 47th St., New York City, design and construction of plant, here, to Lockwood, Greene & Co., 1 Pershing Sq., New York City. Noted Nov. 6.

Pa., Phila.—Factory—Simplex Valve & Meter Co., 112 North Broad St., 1 story and basement, 90 x 175 ft., brick and steel, plain foundation, 68th and Woodland Sts., to Curtis Grimrod Co., 10 South 18th St. Noted Dec. 11.

Pa., Pittsburgh—Factory and Warehouse—Penna Lubricating Co., 34th and Smallman Sts., will build 3 story, 72 x 120 ft. factory and warehouse, 33rd St., by day labor. $50,000. J. Breslove, Oliver Bldg., engr.

Pa., Winburne—Plant—Highland Brick & Tile Co., general contract 1 story, 34 x 76 ft., 40 x 40 ft. and 32 x 80 ft. addition, to E. A. Hess, Winburne. Archts. est. $50,000.

Ga., Griffin—Mill, etc.—W. F. Ingram and associates, Highland Mills, 3 story, 108 x 355 ft., brick, steel and cast iron mill, 83,000 sq.ft. floor space, to Fiske-Carter Constr. Co., Greenville, S. C. Plans also warehouse, 10,000 sq.ft. floor space, boiler house, pump house and reservoir. J. E. Sirrine & Co., Greenville, S. C., engrs.

O., Cleveland—Garage and Factory—J. N. and L. Galvin, Society for Savings Bldg., 3 story and basement, 69 x 100 ft., brick and steel, East 69th St. near Euclid Ave., to J. L. Hunting Constr. Co., Discount Bldg. Archts. est. $100,000.

O., Fostoria—Factory—Natl. Carbon Co., A. V. Wilker, genl. supt., West 117th St. and Madison Ave., Cleveland, 1 story and basement, 65x170 ft., brick, steel and concrete, here, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland. Archts. est. $40,000.

Wis., Fond du Lac—Foundry—H. Poppert & Son Co., Dana Bldg., 1 story, 62x100 ft., brick, plain foundation, Park Ave., to Immel Constr. Co., Dana Bldg. Archts. est. $40,000.

Wis., Milwaukee—Shop—Maynard Electric Steel Castings Co., Kilburn Rd., will build 2 story, 77 x 100 ft., brick and steel, plain foundation, Kilburn Rd., by day labor. $50,000. Gurda & Gurda, 448 Mitchell St., archts. Noted Dec. 18.

Mo., St. Louis — Grease House — W. Waltke & Co., 161 East Grand Ave., will build 2 story and basement, 92 x 97 ft. grease house for soap works, brick and concrete, Grand Ave., by day labor, under supervision of A. Meyer, archt., Central Natl. Bank Bldg.

Tex., Dallas—Power Plant—Dallas Power & Light Co., c/o J. H. Gill, assistant genl. mgr., 216 Interurban Bldg., will build 80 x 150 ft. power plant, 80 ft. high, rein.-con., steel, brick and stone, incl. equipment, by day labor. $2,500,000. Private plans.

Calif., Long Beach—Plant—Peoples Ice & Cold Storage Co., Alamitos St., 2 story and basement, 55 x 110 ft., brick, East Anaheim St., to W. J. Burgin, Pacific Southwest Bldg., Los Angeles, $45,000. Noted Dec. 4.

Buildings—Industrial (Continued)

Calif., Los Angeles—Factory—Natl. Biscuit Co., 1225 East 6th St., 7 story and basement, 195 x 251 ft., brick and steel, Mateo and Industrial Sts., to Pozzo Constr. Co., 421 Macy St., approximately $1,000,000. Noted Nov. 13.

Calif., Los Angeles—Plant—Globe Ice Cream Co., 230 West Jefferson St., will build 2 story, approximately 50 x 152 ft., rein.-con. annex, Hill and Jefferson Sts., by day labor. Archts. est. $150,000. Noted Nov. 13.

Calif., Pasadena — Steam Laboratory — California Institute of Technology, 1201 East California St., 2 story, 50 x 140 ft., Class A construction, East California St., to W. C. Crowell, Security Bldg., Los Angeles, approximately $50,000. Archts. est. $100,000.

Calif., Los Angeles—Factory and Warehouse—W. C. Hendrie & Co., Inc., 340 Crocker St., 2 story (ultimately 4 story), and basement, 55 x 100 ft., rein.-con. and hollow tile, East 4th and Towne Sts., to Hamm & Grant, Inc., 607 Ferguson Bldg. $40,000.

Ont., Hamilton — Factory — Dominion Glass Co., addition to factory, to W. H. Cooper, Clyde Bldg.; steel work, to Hamilton Bridge Wks., Hamilton. Engrs. est. $45,000.

Buildings—Commercial

PROPOSED WORK

Me., Boothbay Harbor—Hotel—Boothbay Hotel Co., c/o T. H. Stevens, having plans prepared by Gibbs & Pulsifier, 14 Lisbon St., Lewiston, for hotel. $350,000.

N. H., Concord—Society—Bek Tash Temple having plans prepared by C. R. Whitcher, 814 Elm St., Manchester, and takes bids after Jan. 20, at architects office, 3 story and basement, 100 x 150 ft., rein.-con., Main St. $250,000.

N. H., Lebanon—High School—Bd. Selectmen having sketches made by Larson & Wells, Hanover, 2 story and basement, brick and tile high school. $150,000.

Vt., Saxtons River — Church — Roman Catholic Diocese, Burlington, plans church, here. $150,000. Engineer and architect not selected.

Mass., Boston — Apartment — Sixty-Five Commonwealth Ave. Trust, c/o McLaughlin & Burr, archts., 88 Tremont St., having plans prepared 7 story and basement, 60 x 105 ft., brick and limestone, 65 Commonwealth Ave. $300,000.

Mass., Boston—Bank and Office—National City Co. of Boston, 10 State St., having sketches made by W. D. Austin, 120 Boylston St., altering bank and office building, at 30 Congress St. To exceed $150,000.

Mass., Boston—Club and Society—McLaughlin & Burr, archts., 88 Tremont St., Boston, taking bids and open same about Jan. 9, 13 story and basement, 116 x 117 x 170 ft., brick and limestone, Tremont St., near Hollis St., for Boston Lodge of Elks, D. J. Kane, chn. Building Comn., 10 Somerset St. $3,000,000.

Mass., Boston — Community — Temple Israel, c/o H. Levi, and F. Vorenberg, 602 Commonwealth Ave., having sketches made by McLoughlan & Burr, 88 Tremont St., 3 story, brick and stone, Longwood Ave., off Fenway St. $150,000.

Mass., Boston—Office—A. B. C. Elevator Co., 82 Devonshire St., having plans prepared by C. J. Warren, 12 Everett Ave., Winchester, 6 story and basement, rein.-con., brick and steel, Stuart and Warrenton Sts. To exceed $150,000.

Mass., Boston—Store and Office—Majestic Realty Co., c/o C. T. Olson, archt., 101 Main St., Brockton, having plans prepared 1 story and basement, 90 x 175 ft., rein.-con., brick and cast stone, Wales Ave. and Main St. $150,000.

Mass., Bridgewater—Schools—State Dept. Educ., State House, Bosotn, plans 3 schools replacing those destroyed by fire, at State Normal School, here. $1,000,000. G. Lowell, 12 West St., Boston, archt. Noted Dec. 25.

Mass., Brighton (Boston P. O.) — Memorial Chapel—St. Elizabeth's Hospital, Cambridge St., having plans prepared by E. T. P. Graham, 171 Newbury St., Boston, 1 story and basement, 50 x 125 ft., brick and stone, Cambridge St. $150,000.

Mass., Brighton (Boston P. O.)—School—School House Dept., Boston, having sketches made by O'Connell & Shaw, 134 Newbury St., Boston, 2 story and basement, brick and stone school, Bennet Dist., here.

Mass., Cambridge (Boston P. O.)—Apartment—A. Bennett, c/o Central Garage, Green St., and I. M. Kramer, 431 Putnam Ave., plans 3 story, brick and stone, Chestnut and Magazine Sts. $200,000. Engineer not selected.

Mass., Cambridge (Boston P. O.)—Fraternity House—Segma Fau Chapter House Assn., c/o F. A. Burton, archt., 240 Boylston St., Boston, having plans prepared 4 story and basement, brick, Charles River Rd. $150,000.

Mass., Dalton — School — City, E. H. Pierce, chn. Building Com., plans high and grade school, 1st St. and Glennon Ave. $150,000. Engineer and architect not selected.

Mass., Danvers — Store and Office — B. Bezek, 247 Campbell Ave., Revere, plans store and office building, Old Berry Tavern, here. To exceed $150,000. Engineer and architect not selected.

Mass., Framingham — Apartment — L. Flax, c/o Whitten & Gore, archts., 31 Milk St., Boston, having preliminary plans prepared, 4 story and basement, brick and stone, plain foundation, Dennison Ave. $150,000.

Mass., Hamilton—Church—Christ Episcopal Church, having preliminary plans prepared by C. C. Coveney, 184 Boylston St., Boston, 1 and 2 story church. $150,000.

Mass., Millbury — School — Immaculate Conception Parish having plans prepared by O. E. Nault, 43 Hamilton St., Worcester, 2 story and basement, 75 x 105 ft., brick and stone, plain foundation. $150,000.

Mass., Newton—High School—Dept. Pub. Buildings, having plans prepared by Haven & Hoyt, archts., and F. W. Deering, associated archt., both 220 Devonshire St., Boston, 4 story and basement, 2,000,000 cu.ft. floor space, rein.-con., brick and stone, plain foundation, Walnut St. $1,000,000.

Mass., Newton—High School—Dept. Pub. Buildings having preliminary plans by H. Ripley, 45 Bromfield St., Boston, Junior High School, rein.-con., brick and stone, plain foundation, Washington St., Auburndale Dist. $550,000.

Mass., Springfield — School — City Property Com., having plans prepared by M. W. Maloney, 23 Pearl St., 2 story and basement, 60 x 158 ft., brick and steel, Bowles Park. $150,000.

Mass., West Medford (Boston P. O.)—Syndicate, c/o Tuck & Co., archts., 636 Warren St., Roxbury, having plans prepared 4 story and basement, 75 x 300 ft., rein.-con., brick and stone, plain foundation, here. $500,000. J. L. Roberts, 101 Tremont St., Boston, engr.

Mass., Weymouth—Hospital—Bd. of Hospital Comn., G. E. Emerson, treas., plans memorial hospital in memory of L. Pratt. To exceed $150,000. Engineer and architect not selected.

Mass., Woburn — Church — First Baptist Church Society, c/o J. E. Vassar, pastor, plans church, Winn and Park Sts., replacing one recently destroyed by fire. $200,000. Engineer and architect not selected.

Mass., Woburn—Store and Office—Corporation, c/o F. H. Gowing, archt., 101 Tremont St., Boston, having revised plans prepared, 2 story and basement, 40 x 180 ft., rein.-con. and brick, Federal St., here. $150,000. Former bids rejected. Noted Nov. 6.

R. I., Bristol—School—City having plans prepared by Clarke & Howe, 1208 Turks Head Bldg., Providence, Guiteras School, Washington St. $250,000.

Conn., New Haven—Office—L. J. Whiteside, 70 Grove St., having plans prepared by Orr & Del Grella, 956 Chapel St., 8 story and basement, 34 x 100 ft., brick and steel, Church and Grove Sts. $150,000.

N. Y., Brooklyn — Apartment — Kew Court Corp., c/o Slee & Bryson, archts., 154 Montague St., soon takes bids 6 story, brick, steel and stone, plain foundation, East 22nd St. $175,000.

N. Y., Buffalo—Hotel—Worth Trish, 944 Lafayette Ave., plans 10 story, 50 x 175 ft., rein.-con., brick and steel, Main St. $800,000. Engineers and architects name withheld.

N. Y., New York—Apartment—Seventy-Fifth St. Holding Corp., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., having plans prepared 9 story, brick, steel and stone, plain foundation, 111 East 75th St. $375,000.

N. Y., New York—Apartment—Seventy-Sixth St. and Bway. Corp., c/o R. T. Lyons, archt., 342 Madison Ave., having plans prepared 15 story, 102 x 122 ft., brick, steel and stone, plain foundation, 235 West 76th St. $1,500,000.

N. Y., New York—School—Bd. Educ., 500 Park Ave., having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, 4 story, brick, steel and stone, plain foundation, Wales Ave. $650,000.

Pa., Dormont — Storage Warehouse — Haugh & Keenan, 5911 Center Ave., Pittsburgh, having revised plans prepared by Hunting & Davis Co., Century Bldg., Pittsburgh, 6 story and basement, 97 x 100 ft. storage warehouse, here. $150,000.

Pa., Greensburg—Theatre—Manos Bros., 15 West Otterman St., having plans prepared by L. H. Lempert & Son, 149 Cutler Bldg., Rochester, N. Y., 2 story and basement, 80 x 150 ft., brick and tile, West Otterman St. $300,000.

Pa., Milton—Church, etc.—Zion Lutheran Congregation, having plans prepared by J. C. Fulton & Son, Thompson Ruby Bldg., Uniontown, 2 story and basement, 80 x 140 ft., brick and tile church and Sunday school. $160,000.

Pa., Phila.—High Schools—Bd. Educ., plans 2 Junior High Schools, one at 26th and Sergeant Sts., and other at 19th and Hunting Park Ave.; also Senior High School, 65th and Oakwood Ave., $2,000,000, all rein.-con. and brick, plain foundations. Private plans.

Pa., Phila. — Theatre — Stanley Co. of America, 1916 Race St., having plans prepared by Hoffman-Henon Co., Finance Bldg., theatre, Frankford Ave. and Griscom St. $2,000,000.

Pa., Pittsburgh—Church—German Evangelical Protestant Church, c/o J. Dimling, having plans prepared by H. H. Hornbostel, archt., and Eric Fisher Wood Co., associated archts., both Wood and Oliver Sts., 3 story and basement, 70 x 110 ft., stone, Smithfield St. and Strawberry Alley. $500,000.

Pa., Pittsburgh — Nurses Home — Mercy Hospital, Pride St., having plans prepared by E. Stotz, Monongahela Bank Bldg., 9 story and basement, 100 x 250 ft., brick and steel, Allies Blvd. and Stevenson St. $600,000.

Pa., Uniontown—High School—Bd. Educ. having plans prepared by E. Johnson, Fayette Title & Trust Bldg., 2 story and basement, 142 x 254 ft., brick and tile, Connellsville and Collins Sts. $280,000.

Pa., Uniontown—High School—Bd. Educ. having plans prepared by H. W. Altman, Fayette Title & Trust Bldg., 2 story and basement, 130 x 185 ft., brick and tile, Morgantown St. $280,000.

Md., Baltimore — Apartment — Arcadia Building Corp. c/o J. H. and F. J. Thuman, archts., 2401 Shirley Ave., having revised plans prepared 4 story, 101 x 102 ft., brick, plain foundation, Harford Rd. and Parkside Dr. $200,000.

Md., Baltimore — Apartment — M. Stein, Lake Dr., having plans prepared by B. F. McGuire, 110 West 34th St., New York City, 9 story and basement, 100 x 100 ft., brick, plain foundation, Lake Dr. $500,000.

Md., Hyattsville—High School—Comrs. Prince George Co. having plans prepared by S. Ashford, 1707 I St., Washington, D. C., 3 story, 50 x 120 ft., brick school, plain foundation. $150,000.

Va., Old Point Comfort — Hotel — Old Point Hotel Co. plans 315 room modern hotel on Hampton Roads waterfront, to replace Hotel Chamberlain, recently destroyed by fire. $1,800,000.

W. Va., Moundsville—Bank—First Natl. Bank plans 2 story, 67 x 108 ft. bank, 7th St. $200,000.

N. C., Durham—College—Duke University, (formerly Trinity College), plans new college buildings. $6,000,000. W. P. Few, pres.

Ala., Birmingham — Administration — Miles Memorial College having plans prepared by Tisdale & Stone, Independent Life Bldg., Nashville, administration building. $150,000.

La., New Orleans—Warehouse—Liberty Oil Co., 518 St. Charles St., plans rebuilding 3 story, steel warehouse, Vernon and Rocheblave Sts., recently destroyed by fire. Private plans.

Tenn., Chattanooga—Hotel—Read House, 9th and Broad Sts., S. R. Read, pres., having plans prepared by Holabird & Roche, 1400 Monroe Bldg., Chicago, 328 room hotel addition. $1,250,000.

Tenn., Knoxville—Hotel—Farragut Hotel Co., 526 South Gay St., soon takes bids 100 room, concrete and tapestry brick addition. $200,000. W. L. Stoddart, 50 East 41st St., New York City, archt. Noted Dec. 11.

Tenn., Nashville—Bank and Office—Central Natl. Bank, 300 3rd Ave., N., plans bank and office building. $500,000. Engineer and architect not selected.

Tenn., Nashville—Fraternal and Office—Independent Order of Odd Fellows, W. N. Hannah, secy., making preliminary sketches made 8 story lodge and office building, 119

Buildings—Commercial (Continued)

7th Ave. N. $800,000. C. M. Bishop, 1651 North Parkway, Memphis, grand master. Engineer and architect not selected. Noted Feb. 14.

Tenn., Nashville—Office—Life Casualty Insurance Co., 309 Church St., A. M. Burton, pres., soon takes bids 5 story, 100x118 ft., rein.-con., brick and stone, 147 4th Ave. N. $250,000. Hart & Nevans, Watkins Bldg., archts. Noted Dec. 11.

O., Ashtabula — Dance Hall and Clubhouse—See "Unclassified."

O., Canton—Garage—F. Ebersole, Carrollton, plans 2 story and basement, Walnut and 3rd St. N. E., here. $150,000. T. J. Saltzman, Carrollton, archt.

O., Cleveland—Apartment—W. P. Yelsky, 1515 Glenmont Ave., having sketches made by M. Altschuld, 5116 Woodland Ave., 3 story and basement, brick and timber, Glenmore Ave. $150,000.

O., Cleveland—Infirmary—State, c/o J. E. Harper, dir. Pub. Welfare, Columbus, had plans prepared by H. B. Briggs, Hartman Hotel Bldg., Columbus, remodeling and constructing 4 story and basement, brick, steel and concrete addition to Female Infirmary Building, Turney Rd., here. $165,000.

O., Dayton—Temple—Jefferson St. Synagogue, A. Mayerburg, rabbi, plans 1 story, rein.-con. and stone, Salem Ave. $500,000. W. F. Bennett, Sr., Mutual Home Bldg., archt.

O., East Cleveland (Cleveland P. O.)—Apartment—A. Linsky, 3060 Berkshire Rd., Cleveland Heights, had plans prepared by M. Weis, 617 Union Bldg., Cleveland, 3 story and basement, 65 x 115 ft., brick and steel, 13701 Hayden Ave., here. $150,000.

O., Lakewood (Cleveland P. O.)—Commercial and Office—C. L. Ayres, pres. C. L. Ayres Coal Co., Rockfeller Bldg., Cleveland, having plans prepared by C. W. Hopkinson, Rose Bldg., 2 story and basement, 60 x 130 ft., brick, steel and concrete, Detroit and Cove Aves., here. $150,000.

O., South Charleston—High School—Bd. Educ., having plans prepared by Walker & Norwich, 1301 Amer. Bldg., Dayton, rein.-con. and brick high school. $170,000. F. Baumann, clk. Noted Nov. 27.

O., Youngstown—Detention Home—Mahoning Comrs. having plans prepared by Stanley & Scheibel, Wick Bldg., 3 story and basement, 75 x 110 ft., brick, steel and concrete. $150,000.

Ind., Anderson — Hospital — Prostestant Hospital Assn., Farmers Trust Bldg., having plans prepared by E. F. Miller, Farmers Trust Bldg., 2 story, rein.-con., brick and steel, plain foundation, 8th St. and Chestnut Park Pl. $150,000.

Mich., Detroit—Hotel—Traders Realty Co., 713 Lafayette Bldg., having plans prepared by G. Wadham, Jr., 713 Lafayette Bldg., 8 story and basement, about 50 x 100 ft. rein.-con., brick and steel, plain foundation, Putnam and 3rd Aves. $500,000.

Mich., Detroit — Jail — Auditors Wayne Co., County Bldg., having plans prepared by A. H. Gould & Son, 602 Empire Bldg., 8 story and basement, rein.-con., brick, steel and stone, plain foundation. $3,500,000.

Mich., Detroit—Mercantile—Sillman Estate, c/o Weston & Ellington, archts., 1507 Stroh Bldg., having plans prepared 3 story and basement, 100 x 100 ft., rein.-con., brick and terra cotta, plain foundation, West Grand Blvd. $150,000.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., having plans prepared by McGrath & Page, 2231 Park Ave., 2 story and basement, 100 x 145 ft., rein.-con., brick and steel, plain foundation, Plymouth Rd. $175,000.

Mich., Grosse Pointe (branch of Detroit)—Church — Grosse Pointe Presbyterian Church having plans prepared by W. E. N. Hunter, 2457 Woodward Ave., 2 story and basement, rein.-con., brick, steel and stone, plain foundation, Lake Shore Dr. $500,000.

Wis., Kenosha—Hospital—N. M. Dunning, archt., 310 South Wabash Ave., Chicago, Ill., soon takes bids 5 story and basement, brick and concrete addition, plain foundation, for Kenosha Hospital Assn., 529 South Chicago St. $300,000. Noted Nov. 13.

Ia., Burlington — Office — Syndicate of Physicians, c/o G. H. Steinle, 614 Iowa State Bank Bldg., having plans prepared by C. W. Christensen, 6582 Sheridan Rd., Chicago, Ill., 7 story and basement, 60 x 68 ft., rein.-con., brick and stone. $350,000.

Ia., Cedar Rapids — High School — Bd. Educ. having preliminary plans prepared by W. J. Brown, Bever Block, and W. E. Ittner, 911 Locust St., St. Louis, Mo., 3 story, brick, concrete and stone, Senior high school. $500,000. Noted Jan. 1.

Ia., Creston—High School—Bd. Educ. having plans prepared by Keffer & Jones, 204 Masonic Temple, Des Moines, 2 story and basement high school. $275,000. H. T. Scurr, secy. Noted Jan. 1.

Ia., Corning—School—Election Jan. 15, $175,000 bonds for 2 story and basement school, for Bd. Educ., c/o C. Mercer, secy. Thomas, McLennan & Thomas, 527 17th St., Des Moines, archts.

Ia., Des Moines — Church — Plymouth Congregation, c/o J. E. Wolfe, 524 35th St., having plans prepared by Proudfoot, Bird & Rawson, 810 Hubbell Bldg., 2 story and basement church, 41st and Ingersoll Sts. $350,000.

Ia., Des Moines—High School—Bd. Educ., G. L. Garlin, secy., soon takes bids 3 story and basement, rein.-con., brick and stone, 15th and Center Sts., West Des Moines. $300,000. F. E. Wetherall, 1012 S. & L. Bldg., archts.

Ia., Marengo—School—Bd. Educ., c/o D. Gode, secy., election Jan. 20, $150,000 bonds, new school building. Engineer and architect not selected.

Neb., Franklin—Court House—Franklin Co., c/o county clerk, had plans prepared by G. A. Berlinghor, 14 Orpheum Bldg., Lincoln, 4 story and basement, 70x90 ft. courthouse. $200,000.

Neb., Lincoln—Club—Y. W. C. A., c/o A. G. Warner, secy., 1619 R St., having preliminary plans prepared by Fiske, Meginnis & Schaumberg, 533 Bankers Life Bldg., brick and concrete club, etc. $200,000.

N. D., Valley City—Court House—Comrs. Barnes Co., having plans prepared by Toltz, King & Day, Builders Exch., St. Paul, Minn., 3 story and basement, rein.-con., brick, tile and stone court house. $200,000.

Mo., Hannibal—High School—Bd. Educ. takes bids in February 2 story and basement, 110 x 195 ft., rein.-con. brick and stone. W. B. Ittner, 911 Locust St., St. Louis, archt.

Mo., Liberty — College — William Jewell College, H. C. Wayman, pres., making preliminary plans 2 story and basement, girls dormitory $100,000, and gymnasium $150,000, both brick, concrete and stone.

Mo., St. Louis—Apartment—J. Rubin, 810 Chestnut St., soon takes bids 3 story and basement, 133 x 138 ft., rein.-con., brick and stone, Cabanne St. west of Union St. $150,000. O. J. Popp, Arcade Bldg., archt.

Mo., St. Louis — Apartment — E. M. Worthington, 324 Belt Ave., soon takes bids 8 story and basement, 60 x 66 ft., brick, concrete, stone and terra cotta, Maryland and Taylor Aves. T. J. Craven, engr., and W. S. Frank, archt., both Century Bldg.

Mo., St. Louis — Commercial — Local Realty Co., c/o W. M. Louderman, Bank of Commerce Bldg., having preliminary plans prepared by La Beaume & Klein, Compton Bldg., 12 story and basement, 88 x 106 ft., rein.-con., brick, stone and steel, Locust and 11th Sts. $750,000.

Mo., St. Louis—Hotel, etc.—E. Horton, 4188 West Belle Pl., soon takes bids 8 story and basement, 144 x 160 ft., brick, concrete and terra cotta, Finney St. at Pendleton Ave. $1,000,000 or more. Private plans.

Ark., Little Rock—Store—J. D. Back & Bro., 410 Main St., takes bids about Feb. 1, 4 story and basement, 50 x 140 ft., concrete, brick, steel and stone, Main and 5th Sts. $250,000. Mann & Stern, A. O. U. W. Bldg., archts.

Tex., Amarillo—Hotel—Panhandle Impvt. Co. plans 6 story and basement, rein.-con., brick and stone, plain foundation. $375,000. Engineer and architect not selected.

Tex., Amarillo—Office—Chamber of Commerce plans two 8 story brick and stone office buildings, plain foundations. $500,000 each.

Tex., Amarillo—High School—Bd. Educ., c/o T. W. Cotton, pres., plans high school. $250,000. Engineer and architect not announced.

Tex., Greenville—Hotel—Lindsey & Kilmer, archts., Greenville, soon takes bids 7 story and basement, 80 x 100 ft., brick, stone and rein.-con., Washington St., for Greenville Hotel & Investment Co. $300,000. Noted Aug. 21.

Tex., Harlingen—Hotel—J. M. Longfellow & B. N. Decker, and associates, having plans prepared by W. E. Krum, Bristow, Okla., 3 story and basement, 75 x 125 ft., brick and concrete, plain foundation. $150,000.

Tex., Houston—Apartment—San Jacinto Realty Co., 4401 Montrose Ave., and J. M. Glover, archt., Bankers Mortgage Bldg., take bids about Jan. 15, 2 story and basement apartment, Montrose Blvd. $200,000. G. B. Post & Son, Pioneer Trust Bldg., Kansas City, Mo., archts.

Tex., San Antonio—Courthouse—Bexar Co., A. McCloskey, judge, election soon $1,000,000 bonds for 59 story and basement courthouse annex, west of present [illegible] A. C. Pancoast, co. engr. Noted Dec. 18.

Tex., San Antonio—Office—W. Rogers, 238 Hollywood St., having plans prepared by H. S. Green, Alamo Bank Bldg., 10 story and basement, brick, stone and rein.-con., West Commerce and Navarro Sts. $225,000.

Tex., San Antonio—Temple—Temple Beth El, Travis and Jefferson Sts., having plans prepared by Seutter & Simons, Moore Bldg., 2 story and basement, West Ashby and Belknap Sts. $250,000.

Tex., Wortham—City Hall—A. J. McKinney, city secy., plans rein.-con. and brick, plain foundation, Main St., for City. $175,000. Engineer and architect not announced.

Okla., McAlester — Hospital, Nurses Home, etc.—Scottish Rite Masons, soon take bids 2 and 4 story and basement, rein.-con., brick and stucco. $200,000 up. W. T. Schmitt, 1634 West 10th St., Oklahoma City, archts.

Okla., Norma — Dormitory — State Bd. Affairs, Capitol Bldg., Oklahoma City, having preliminary plans prepared by J. Hicks, Braniff Bldg., 3 story and basement, 86x190 ft. dormitory, for University of Oklahoma on campus, here. $300,000.

Okla., Oklahoma City — City Hall — City having preliminary plans prepared by W. Vahberg, Oklahoma City, 5 story, 100x140 ft., bick and stone. $600,000.

Wash., Seattle—Hotel and Garage—E. G. Peters, 316 Railway Exch. Bldg., takes bids about Jan. 10, 5 story and basement, brick and terra cotto. $175,000. Wilson & Jones, Arcade Sq., archts.

Calif., Burlingame — Hotel — Owner, c/o G. Rushforth, archt., 354 Pine St., San Francisco, had preliminary plans prepared 4 story, rein.-con. and hollow tile, Bellevue Ave. and El Camino Real. $450,000.

Calif., Los Angeles — Arcade, Store and Apartment—Burrell & Hamrick, archts., 1243 Vine St., prepared plans 5 story, 110x290 ft., rein.-con. and timber, Vine St. near La Mirado St. $350,000. Owner's name withheld.

Calif., Los Angeles—High School—Bd. Educ. had plans prepared by Jefferey & Schaefer, 1104 Kerchoff Bldg., 2 story and basement, rein.-con. and brick, Ave. 54 and Hud St. $360,000.

Calif., Los Angeles — Hotel — Burrell & Hamrick, archts., 1243 Vine St., prepared plans 4 story, 109x140 ft., rein.-con. and timber, Whittier Blvd. $150,000. Owners name withheld.

Calif., Oakland—Theatre—Owner, c/o S. Grauman, Metropolitan Theatre Bldg., Los Angeles, plans fireproof theatre, $2,000,000-$3,000,000. Engineer and architect not selected.

Calif., Pasadena—City Hall—City had plans prepared by Backwell & Brown, 231 Kearny St., San Francisco, rein.-con. and terra cotta city hall. $1,000,000.

Calif., Redlands—Auditorium—City plans election $250,000 bonds, constructing auditorium.

Calif., Sacramento—Theatre—Owner, c/o J. L. Marsh, 1905 L St., plans theatre. $150,000-$200,000.

Calif., San Francisco—Studio—M. Graf, 1179 Market St., plans motion picture studio, Sunset Dist. $150,000 or more.

Calif., San Pedro — Club — Y. M. C. A. having plans prepared by J. Rogers & Stevenson, 919 Washington Bldg., Los Angeles, 5 story and basement, 142 x 186 ft., rein.-con. and tile, Beacon St. $550,000.

Calif., Santa Monica—Store and Apartment—S. Malsman had plans prepared by Russell & Alpaugh, 1106 Story Bldg., Los Angeles, 6 story and basement, 100 x 150 ft., pressed brick, terra cotta, marble and tile, Santa Monica Blvd. $300,000.

B. C., Vancouver — Church — Tyramid Temple having plans prepared by McCarter & Nairne, 509 Richards St., brick and timber church, 3,500 seating capacity, on Kingsway. $150,000.

B. C., Vancouver — Store — Hudson Bay Co., Georgia and Granville Sts., plans 6 story, rein.-con., brick, tile and terra cotta, Granville St. $1,500,000. Engineer and architect not announced.

Ont., Fergus—High School—School Bd. plans 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation. $150,000. Engineer and architect not selected.

Ont., London—High School—Bd. Educ. having plans prepared by L. E. Carrothers,

Buildings—Commercial (Continued)

c/o Bd. Educ., new high school in eastern section of city. $300,000.

Ont., Ottawa—Office—Metropolitan Life Insurance Co., having plans prepared by J. A. Ewart, Jackson Bldg., and takes bids in early summer, 4 story, basement and sub-basement, 167 x 207 ft., Bank, Sparks and Wellington Sts. $2,000,000.

BIDS DESIRED

Vt., Forest Dale—School—School Comn., taking bids 1 and 2 story and basement, 60 x 100 ft., brick, tile and steel, plain foundation. C. H. Smith, Rutland, archt.

Mass., Beverly—Store—Owner, c/o A. J. Carpenter, Jr., 1 Moss Hill Rd., Jamaica Plain, taking bids 2 story and basement, 55 x 150 ft., brick store, hall and bowling alleys, Washington and Cabot Sts. $150,000 or more.

Mass., Boston—Apartment—L. S. Kaufman, 94 Queensbury St., taking bids 8 story, 60 x 110 ft., concrete, brick and steel, plain foundation, 1802 Commonwealth Ave. $350,000. G. N. Jacobs, 4 Park St., archts. Noted Dec. 11.

Mass., Boston—Theater, Store and Office—Cobb Theatre, c/o A. J. Carpenter, Jr., 1 Moss Hill Rd., Jamaica Plain, taking bids 2 story and basement, 55 x 125 ft., brick, plain foundation, Washington and Cobb Sts. $150,000. Noted Dec. 25.

Mass., Gloucester — Club — Annisquam Yacht Club, taking bids 2 story, 60 x 100 ft. clubhouse. To exceed $150,000. Woodbury & Stuart, 581 Boylston St., Boston, archts.

Mass., Medford—Nurses Home—Jan. 9, by Lawrence Memorial Hospital, E. B. Moore, chn., 3 story, 50 x 92 ft. nurses home, brick and cast stone. $150,000. C. B. Dunham, 6 Beacon St., Boston, archt.

Mass., Somerville — Apartment — Winter Hill Realty Co., c/o G. E. Nute, 3 West Canton St., taking bids 5 story and basement, 50 x 200 ft., with 50 x 58 ft. wing, brick, steel and concrete, plain foundation, Bway. $275,000. A. H. Bowditch, 44 Bromfield St., Boston, archt.

Mass., West Roxbury (Boston P. O.) — School—Jan. 19, by School House Dept., Boston, 2 and 3 story and basement, 40 x 170 ft., and 80 x 110 ft., brick and stone addition to Washington Irving Intermediate School, plain foundation, Charles Sumner Dist. $400,000. C. H. Walker & Sons, 120 Boylston St., Boston, archts.

Mass., Worcester—Office—P. M. Duprey, 390 Main St., taking bids 6 story and basement, 40 x 85 ft., brick, steel and limestone, plain foundation, Main St. $175,000. J. Rustigian, 405 Main St., archt. Noted Dec. 18.

Conn., Stamford—School—L. A. Walsh, archt., 51 Leavenworth St., Waterbury, taking bids 3 story, 38 x 50 ft., and 60 x 120 ft., brick and stone, plain foundation, Strawberry Hill, here, for Sisters of St. Joseph, 210 Strawberry Hill. $250,000. Noted Aug. 14.

N. Y., Brooklyn—School—Jan. 21, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., addition to P. S. 35, Decatur St. and Lewis Ave., for Bd. Educ., 500 Park Ave., New York City.

N. Y., Mt. Vernon—School—Jan. 12, by Bd. Educ., 60 South 30th St., 3 story, 75 x 180 ft., school addition, 2nd St. Werner & Greenfield, 20 West 34th St., New York City, archts.

N. Y., New York—Garage—Bing & Bing, Inc., 119 West 40th St., will build 7 story, 200 x 245 ft. garage, 109 West 50th St. $1,400,000. Work will be done by separate contracts.

N. Y., New York—School—Jan. 27, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 86, Reservoir Ave. and West 195th St., here, for Bd. Educ., 500 Park Ave.

Pa., Gettysburg—Theater, Hotel and Store—Jan. 19, by W. H. Lee, archt., 1505 Race St., Phila., 4 story and basement, 144 x 151 ft., brick and steel, plain foundation, here, for Gettysburg Hotel Co. Noted Sept. 25.

Md., Baltimore—School—Jan. 21, by Bd. Awards, general construction, heating and ventilating, etc., for 3 story and basement, 120 x 215 ft., brick and steel, plain foundation, Roland and Linwood Aves. $450,000. E. L. Palmer, 513 North Charles St., archt. Van R. P. Saxe, Knickerbocker Bldg., engr.

O., Cleveland — Apartment — J. Baskin, 9215 Parkgate Ave., taking bids 3 story and basement, brick, West 80th St. and Detroit Ave. $150,000. R. H. Hinsdale, 654 Erie Bldg., archts. Noted Dec. 11.

O., Toledo—Apartment—Jan. 9, by Mills, Rhines, Bellman & Nordhoff, archts., Ohio Bldg., 3 story and basement, 21 x 100 x 143 x 173 ft., brick, stone and terra cotta, plain foundation, Ashland Ave., for Madison-Michigan Building Co. $250,000.

Mich., Detroit—Library—Jan. 12, by P. R. Gray, pres. Pub. Library Comn., 2 story and basement, 75 x 100 ft., rein.-con., brick and steel, plain foundation. $150,000. Smith, Hinchman & Grylls, Woodward Ave., archts. Noted Dec. 25.

Mich., Halfway—School—Jan. 20, by F. Driskell, secy. Bd. Educ., 3 story and part basement, 95 x 166 ft., rein.-con., brick and steel, plain foundation, Gratiot Ave. Warren Holmes-Powers Co., Lansing, archts.

Minn., Winona—High School—Jan. 28, by Bd. Educ., A. H. Kressin, Junior High School, 3 story and basement, rein.-con., brick, tile and stone. $500,000. Croft & Boerner, 1004 Marquette Ave., archts.

Tex., Dallas—Apartment—J. W. Westbrook, archt., 407½ North Bishop St., taking bids 3 story and basement, 70 x 170 ft., brick, steel, stone, steel, rein.-con. and hollow tile, Marsalis Ave., for J. R. Hill, 824 Norht Marsalis Ave. $150,000.

Tex., Laredo—Office—Sames-Moore Co., taking bids 5 story and basement, rein.-con., brick and stone, plain foundation. $175,000. Adams & Adams, Gibbs Bldg., San Antonio, archts. Noted Nov. 20.

Tex., San Antonio—Hotel—Order of Odd Fellows, c/o Crockett Hotel, taking bids 7 story and basement, 80 x 100 ft., rein.-con., brick and stone, plain foundation, Crockett and Nacogdoches Sts. $200,000. H. T. Phelps, Hicks Bldg., archt.

BIDS RECEIVED

N. J., Elizabeth—School—Bd. Educ., Dec. 23, Junior High School 3, general contract, from Fatzler Co., 441 21st St., Newark, $429,450; plumbing, from F. A. Vanderweg, 100 Chestnut St., Roselle Park, $33,935; heating and ventilating, from Jaehnig & Peoples, 221 13th Ave., Newark, $83,133.

N. J., Trenton Junction (Trenton P. O.)—School—Guilbert & Betelle, archts., Commerce Bldg., Newark, Dec. 29, group of 1 and 2 story buildings for New Jersey School for Deaf, here, general contract from J. M. Yardley, 1716 Sansom St., Phila., Pa., $368,900; heating, from Trenton Plumbing & Heating Co., 366 South Broad St., Trenton, $39,988; plumbing, from Burns, Lane & Richardson, 16 Paterson St., New Brunswick, $32,240. Noted Dec. 18.

Pa., Elkins Park—High School—School Bd. Cheltenham Twp., general contract 3 story and basement, 156 x 190 ft., rein.-con. and brick, plain foundation, from J. J. Loux, 15th St. and Hunting Park Ave., Phila., $384,700; plumbing, from J. Bordon & Bro., 637 North 19th St., Phila., $28,350. Noted Dec. 11.

N. C., Raleigh—Office—W. N. Everett, secy. of State, Dec. 1, for office building, corner Morgan and Salisbury Sts., from G. A. Fuller & Co., Munsey Bldg., Wash., D. C., and 949 Bway., New York City, $608,000; heating and plumbing, from W. B. Guimarin Co., Columbia, $54,595. Noted Dec. 11.

Wis., West Bend—High School—School Dist. No. 1, F. W. Bucklin, clk., 2 story and basement, 160 x 180 ft., brick and tile, plain foundation, from West Bend Constr. Co., West Bend, $159,725. Noted Dec. 18.

Minn., St. Paul—School—H. W. Austin, city purch. agt., Dec. 23, general contract 3 story and basement, rein.-con., brick and stone, East 3rd and Earl Sts., from W. M. Lindau Constr. Co., 220 Guardian Life Bldg., $165,800. Noted Dec. 18.

Calif., Glendale — Church — C. Cressy, archt., 130 South Brand Blvd., Dec. 15, general contract 1 story, 85 x 100 ft., rein.-con. and brick, from T. H. Reed, 204 Willshire Bldg., for First Baptist Church, Wilson and Louise Sts. $153,219. Noted Dec. 4.

Calif., Los Angeles — Church — N. F. Marsh, archt., 211 Bway., Central Bldg., 2 story and basement, 120 x 120 ft., brick, 24th St. and Griffith Ave., from C. Olcester, 4932 Rosewood Ave., Los Angeles, for Second Baptist Church. $155,650. Noted Dec. 18.

CONTRACTS AWARDED

Mass., Boston—Clubhouse—Boston City Club, 6 Ashburton Pl., altering 10 story and basement clubhouse, to O. H. Drisco & Son, 46 Cornhill St.

Mass., Boston — Museum — Museum of Fine Arts, Huntington Ave., altering and constructing 2 story and basement, 30 x 400 ft., brick and granite addition, plain foundation, to L. P. Soule & Son, 80 Boylston St. Archts. est. $300,000. Noted Oct. 2.

Mass., Boston—Store and Office—Bernstein Bros., 90 Arch St., 5 story and basement, brick and stone, 97 Sudbury St., to B. Berg, 97 Dartmouth St., Dorchester. Archts. est. $150,000.

Mass., Boston—Store—G. Grow, 920 Commonwealth Ave., 3 story and basement, 5,740 ft. floor space, rein.-con. and brick, 124-128 Huntington Ave., to L. Pooron, 24 Normandy St., Dorchester. Archts. est. to exceed $150,000.

Mass., Brookline—Apartment—Greenway Apartments, c/o Martoff & Sherman, Greene St., will build 5 story, brick, Greene St., by day labor. $150,000. S. E. Moffle, 51 Cornhill St., archt.

Mass., Cambridge (Boston P. O.) — Garage, etc. — J. J. Shine, 1374 Massachusetts Ave., will build 1 and 2 story, 100 x 260 ft., rein.-con., brick and steel garage and repair shop, 410-328 Green St., by day labor. $150,000. L. C. Gustin, 1374 Massachusetts Ave., archt. and engr. Noted Nov. 13.

Mass., Marlboro — High School — School Bldg. Comn., C. F. Putman, clk., City Hall, 3 story and basement, brick and tile addition, to B. W. Neal, Inc., 293 Boylston St., Brookline, $149,398. Noted Dec. 4.

Mass., Norwood—High School—Bd. Selectmen, 2 story and basement, 58 x 227 ft., brick and stone, plain foundation, Nichols Sts., to Central Eng. & Constr. Co., Slater Trust Bldg., Pawtucket, R. I. $376,000. Noted Dec. 25.

Mass., Onset—Church—Our Lady Star of Sea Roman Catholic Church Society, 1 story and basement, 50 x 110 ft., brick and stone, to C. Louge Building Co., 18 Tremont St., Boston. Archts. est. $150,000. Noted Dec. 25.

Conn., Hartford—Store and Office—M. Fox, c/o G. Fox Co., 260 Main St., G. S. Auerbach, secy., 2 story and basement, 130x180 ft., rein.-con. and steel, plain foundation, Pratt and Trumbull Sts., to J. A. Stewart, Pratt and Trumbull Sts. Archts. est. $250,000. Noted Sept. 25.

Conn., Waterbury — Apartment — P. H. Carroll, East Arrora St., will build 9 story and basement, 60 x 185 ft., brick and stone, Prospect St., by day labor. $500,000. W. E. Hunt, 187 Church St., Torrington, archt. Noted Aug. 21.

N. Y., Bayside—Theatre and Store—Bayside Amusement Corp., c/o T. W. Lamb, archt., 644 8th Ave., New York City, 4 story, brick, steel and stone, plain foundation, Bell Ave., to T. J. Buckley Eng. Co., 303 5th Ave., New York City. Archts. est. $500,000.

N. Y., Brooklyn — Apartment — Kelton Constr. Co., c/o Shampan & Shampan, archts., 189 Montague St., will build brick, steel and stone, plain foundation, Fenimore St. and Nostrand Ave., by day labor. $180,000.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York City, P. S. 207, Fillmore Ave., here, general contract, to C-L. and S. Constr. Co., 145 Montague St., $369,400; plumbing, to W. J. Endres, Grand Central Terminal, New York City, $27,722; heating, to Gillis & Gheoghegan Co., 537 West Bway., New York City, $48,267. Noted Nov. 27.

N. Y., Buffalo—Hotel—Sovereign Apartments, Inc., c/o Lewis & Hill, archts., 892 Main St., 5 story, 50 x 200 ft., rein.-con., brick and steel, West Utica Ave., to M. M. Robinson, 437 Woodward Ave., Detroit, Mich., $500,000.

N. Y., New York—Hotel—Twenty West 72nd St. Corp., c/o H. J. Krapp, archt., 116 East 16th St., will build 15 story, 88 x 100 ft., brick, steel and stone, plain foundation, 20-28 West 72nd St., by day labor. $400,000.

N. Y., New York — Magistrates Court House—H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., general contract court house, East 161st St., Brook and Washington Aves., to T. A. Reilley Co., 48 East 41st St., $192,000, plus $2,200. Noted Dec. 18.

N. Y., New York—School—Bd. Educ., 500 Park Ave., constructing P. S. 116, 33rd St. near 3rd Ave., to T. J. Waters Co., 271 West 125th St., $315,880. Noted Dec. 18.

N. Y., New York—School—Bd. Educ., 500 Park Ave., P. S. 81, Riverdale Ave. between 255th and 256th Sts., Bronx Boro, to Psaty & Fuhrman, 501 East 161st St., $295,000, heating and ventilating apparatus, to J. H. Goldblatt, 345 Madison Ave., $44,364. Noted Jan. 1.

N. Y., Poughkeepsie—Laboratory—Vassar College, Raymond Ave., constructing brick, steel and stone, plain foundation, to E. V. Anderson, Market St. Archts. est. $200,000. Noted Dec. 18.

Pa., Phila.—School—P. G. Getz, archt., Victory Bldg., 2 story and basement, 81 x 135 ft., brick and steel, plain foundation, Tucker and Memphis Sts., to J. McShain, 1713 Sansom St., for St. Ann's Roman

Buildings—Commercial (Continued)

Catholic Church, Lehigh & Memphis Sts., M. A. Hand, pastor. Archts. est. $150,000.

Pa., Pittsburgh—Hospital—Homeopathic Medical & Surgical Hospital & Dispensary, general contract 7 story and basement, 41 x 201 ft. addition, etc., to D. T. Riffle, 1006-8 Forbes St. Archts. est. $600,000. Noted Dec. 11.

Md., Cumberland—Home—Y. M. C. A., W. H. Lewis, genl. secy., 3 story and basement, 95 x 119 x 193 ft., brick and steel, plain foundation, to North Eastern Constr. Co., Lexington Bldg., Baltimore, $300,000. Noted Dec. 11.

D. C., Wash—School—Dist. Comrs., constructing J. F. Cook School P and 1st Sts., to Skinker & Garrett, 1416 F St. N. W., $237,951. Noted Dec. 18.

W. Va., Parkersburg—School—Bd. Educ. general contract 2 story and basement, 124 x 132 ft., rein.-con. and brick, to C. W. Carderman, Delphos, $109,890. Noted Oct. 23.

N. C., Charlotte—Schools—City, Elizabeth School, to Palmer-Spivey, Elizabeth Ave., $157,084; Dilworth School, to J. D. Ford, Charlotte, $47,158; Fairview School, to J. A. Jones Constr. Co., Realty Bldg., $104,500; Piedmont Junior High School, to Mintre Homes Co., Charlotte, $165,000, all fireproof construction.

N. C., Salisbury—High School—City, general contract 3 story, brick high school, to L. S. Bradshaw, Salisbury, $332,000; heating, to B. Mackenzie, Greensboro, $36,500.

Ala., Birmingham—Hotel—Tutwiler Hotel Co., 2000 5th Ave., 12 story, 75 x 150 ft., steel and concrete addition, North 20th St., to Southern Ferro-Concrete Co., 50 East Ellis St., Atlanta, Ga., $300,000. Noted May 15.

La., New Orleans — Theatre — Canal Realty & Impvt. Co., 1401 Tulane Ave., terra cotta and pressed brick, theatre, Canal St. between Rampart St. and Elks Pl., to G. J. Glover Constr. Co., Whitney Central Bank Bldg., $1,000,000.

O., Akron—High School—City, general contract Garfield High School, in Firestone Park, to C. W. and P. Constr. Co., 718 Secy. Natl. Bldg., $376,446. Noted Feb. 28.

O., Dayton—Office—Davies Building Co., 29 Davies Bldg., 10 story, 75 x 100 ft., rein.-con. and brick, plain foundation, 1st Ave., to Frank Hill Smith, Inc., Winters Bldg., about $450,000. Noted Nov. 20.

O., Toledo — Apartment — Park Apartments, Inc., 9 story and basement, 73 x 156 ft., brick and steel, plain foundation, Jefferson Ave., to A. Bentley & Sons Co., Belmont Ave., $1,000,000.

Mich., Detroit — Mercantile — A. Kahn, archt., 1000 Marquette Bldg., constructing 12 story and basement, 30 x 100 ft., rein.-con., brick and steel, plain foundation, Michigan Ave., to Everett Winters Co., 1024 Book Bldg. Noted Nov. 13.

Mich., Muskegon — High School — Bd. Educ., general contract 3 story and basement, rein.-con., brick and steel, plain foundation, to O. F. Miller, 139 Prospect St., Kalamazoo, $568,600; heating and plumbing, to N. Y. Yonkers, Muskegon, $35,498 and $24,697 respectively.

Ill., Naperville—Auditorium—Northwestern College, general contract 2 story and basement, 100 x 140 ft., brick, concrete and stone, to Bergsted Constr. Co., Moline. Archts. est. $160,000. Noted Nov. 27.

Wis., Jackson—Schools—Bd. Educ., general contract 3 story and basement high school, to A. C. Samford, 24 Galena Ave., Montgomery, Ala., $195,000; negro school, to W. J. McGee, Millsaps Bldg., $85,495.

Wis., Madison—Nurses Home—University of Wisconsin, c/o J. D. Phillips, bus. mgr., 4 story, 32 x 154 ft., brick, rein.-con. and steel, plain foundation, to Devereux-Olson Constr. Co., 716 11th Ave., Minneapolis, Minn. Noted Oct. 30.

Wis., Milwaukee — Auto Sales — Hoppe Motor Car Co., 608 Concord Ave., 2 story and basement, 62 x 156 ft., brick and concrete, plain foundation, Grand Ave., to Coddington Eng. Co., 290 3rd St. Archts. est. $150,000.

Wis., Milwaukee—Bank—Mechanics Natl. Bank, c/o First Wisconsin Natl. Bank, 425 East Water St., 3 story and basement, 56 x 80 ft., brick, stone and concrete, plain foundation, Kinnickinnic Ave., to Meredith Bros., 253 Washington St. Archts. est. $150,000.

Wis., Milwaukee — Dormitory — S. Roth, 908 Downer Ave., 3 story and basement, 50x105 ft., brick and tile, plain foundation, 13th St., to Reisinger & Co., 464 Oakland Ave. Archts. est. $150,000.

Mo., Jefferson City—Church—First Baptist Congregation, general contract 2 story, brick and concrete, church and Sunday school, Monroe and Capitol Aves., to E. Braun, Jefferson City. Archts. est. $150,000.

Mo., Springfield—School—Bd. Educ., 2 story and basement, brick and concrete, general contract to M. E. Gillioz, Monett, $78,000; plumbing and ventilating to McCarty & Wells, 423 St. Louis St., $25,176. Noted Dec. 4.

Ark., Little Rock—Church—Second Presbyterian Congregation, R. B. Oliver, chn., 2 story, concrete, brick and tile, 3rd and Gaines Sts., to J. H. Leveck & Sons, Reigler Bldg., $175,000.

Tex., Dallas—Auditorium—City, c/o M. G. James, city secy., brick, rein.-con. and steel auditorium, plain foundation, at Gaston Park, to A. J. Rife, 211 West Jefferson St., $345,145.

Tex., Dallas—Hotel—Dallas Hotel Co., c/o R. B. Ellifritz, c/o Adolphus Hotel, will build 22 story and basement, 65 x 100 ft., addition, Main St., by day labor. $1,000,000. Former bids rejected. A. C. Bossom, 680 5th Ave., New York City, archt.

Tex., Laredo—Hotel—L. Lyons, T. B. Baker and associates, Gunter Hotel, San Antonio, 8 story and basement, 98 x 100 ft., rein.-con., tile and brick, plain foundation, to Sumner-Sollitt Co., Natl. Bank Commerce, San Antonio, approximately $200,000. Noted Nov. 6.

Okla., Bartlesville — High School — Bd. Educ., general contract 3 story and basement, 120 x 180 ft., rein.-con., brick and stone, to Shallenberger Constr. Co., 5th and Detroit Sts., Tulsa, $252,829; plumbing and heating, to Sell-Orr Heating Co., Independence, Kan., $56,252. Noted Dec. 11.

Ore., Portland—Y. M. C. A. Com., general contract 5 story, 100 x 100 ft., rein.-con., solid rock foundation, Yurnhill and 6th Sts., to Hansen, Hammond & Clist, Pittock Bldg., $118,866.

Calif., Fresno—Theatre—J. W. Wilson & J. A. Benham, 1420 H St., 138x150 ft., steel and concrete, Stanislaus and Fulton Sts., to Trewhitt-Shields Co., Rowell Bldg. Archts. est. $500,000.

Calif., Oakland—Hotel—E. A. Colburn, 416 East 10th St., Denver, Colo., 12 story and basement, hotel, here, to G. M. Tamblyn, 10th and Grant Sts., Denver, Colo. Archts. est. $5,000,000.

Ont., Ft. William—Collegiate—Bd. Educ., general contract 3 story and basement, rein.-con., brick and steel, plain foundation, to Claydon & Co., Winnipeg, Man., $168,445. Noted Dec. 18.

Federal Government Work

PROPOSED WORK

N. H., Portsmouth—Coaling Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairing coaling plant, here.

Mass., Boston—Breakwater, etc.—Treas. Dept., at office Supervising Archt., Wash., D. C., rejected bids constructing breakwater and rebuilding seawall, here. Will readvertise. Noted Dec. 11.

Mass., Boston — Waterworks — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans improving waterworks, and replacing circulating loop, here.

N. Y., Fort Lafayette—Dredging—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans dredging at naval ammunition depot, here.

N. Y., New York—Gas Plant, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans gas plant improvements, improving distributing system, replacing high tension electric cable and improving sanitary facilities at Dry Dock 4, here.

Pa., Phila.—Paving, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans paving at Navy Yard, improving Pier 3, and dredging, here.

D. C., Wash.—Quarters—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans extending nurses quarters, here.

Va., Norfolk — Fire Protection — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans improving fire protection system, and replacing hull of 120 ton derrick, here.

Va., Yorktown—Fire Protection—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans fire protection system, here.

S. C., Charleston — Dredging — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans dredging, here.

Fla., Pensacola—Storage—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans fuel oil storage, here.

Ill., Great Lakes—Power Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans improving power plant, here.

Ark., Hot Springs—Road—U. S. Engineer plans resurfacing driveways and constructing 6 mi. new road on top of West Mountain, in U. S. Government Reservation.

Wash., Puget Sound—Storage—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans additional storage at ammunition depot, here.

Calif., Mare Island—Dredging—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans dredging, here.

Calif., San Diego — Extension — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans extension to shop and storage facilities, here.

H. T., Pearl Harbor—Generator Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans extending motor generator building, here.

H. T., Pearl Harbor—Moorings, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans additional moorings, improving water front in industrial section, and extending administration building, here.

Samoa, Tutulla—Wharf—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans improving wharf, here.

Cuba, Guantanamo — Wharf — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans replacing magazine wharf, and improving fuel oil plant, here.

Virgin Islands, St. Thomas—Oil Engines—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans oil engines, here.

P. I., Cavite—Moving Quarters, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans moving officers quarters, power plant equipment, drydock and water tank, etc., from Olongapo, to here.

P. I., Cavite—Radio Tower—Spec. 5057—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids 210 ft. self supporting, steel radio tower, here.

BIDS DESIRED

N. H., Portsmouth—Capstans—Spec. 5024—Jan. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., electrically driven capstans at Navy Yard, here.

Mass., Gloucester—Post Office—Jan. 26, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging Post Office and Court House, here.

N. Y., Fulton—Post Office—Jan. 30, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging Post Office, here; adv. E. N.-R. Jan. 8.

N. Y., New York—Dredging—Jan. 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at Navy Yard, here; adv. E. N.-R. Jan. 8.

Md., Annapolis—Well Houses—Spec. 5056—Feb. 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing well houses, here.

Va., Norfolk—Alterations—Jan. 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to cafeteria in hospital, here.

Ala., Florence—Counterweights—Jan. 20, by U. S. Engineer Office, structural steel displacement counterweights, for Wilson Dam; adv. E. N.-R. Jan. 8.

Tex., Galveston—Jetty Repairs—Jan. 31, by U. S. Engineer Office, Galveston, repairs to north jetty, Galveston Harbor; adv. E. N.-R. Jan. 8.

BIDS RECEIVED

S. C., Anderson—Extension, etc.—Treas. Dept. at office Supervising Archt., Wash., D. C., extending and remodeling Post Office, here, from W. L. Morrison Constr. Co., Natl. Metropolitan Bank Bldg., Wash., D. C., $11,350, alternate add $450. Noted Dec. 11.

Fla., Miami — Post Office, Court House, etc.—Treas. Dept. at office Supervising Archt., Wash., D. C., extending and remodeling post office, court house, etc., here, from W. L. Morrison Constr. Co., 613 15th St., Wash., D. C., $19,340 (6 months).

Mo., Harrisonville — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office, here, from H. Lloyd Building Co., 816 Olive St., St. Louis, Mo., $43,266. Noted Dec. 11.

Tex., Galveston—Dredging—U. S. Engineer Office, Galveston, redredging Intercoastal Canal, at certain places between here and head of Matagorda Bay, from J. Jackobson Dredging Co., 2311½ Ave. C, $34,370. Noted Nov. 20.

CONTRACTS AWARDED

Va., Norfolk—Dredge Repairs—U. S. Engineer Office, repairing Hopper Dredge Chinook, to Newport News Shipbuilding & Dry Dock Co., Newport News, $106,300. Noted Dec. 4.

Ala., Florence—Cement—P. T. Samuels, ch. supply div., 10,000 bbl. cement, to

Federal Government Work (Continued)

Lehigh Portland Cement Co., Woodward Bldg., Birmingham $22,302.

Ala., Florence—Cradles, etc.—P. T. Samuels, ch. supply div., furnishing 58 counterweight cradles, to Welded Products Co., 2760 7th Ave. N., Birmingham, $13,485; also 1,475 gray iron castings, to Dodge Fdry. Co., 28th and Woodside Aves., Chattanooga, Tenn., $24,220. Noted Dec. 18.

Mo., St. Louis—Earthwork—Mississippi River Comn., 1311 International Bldg., 600,000 cu.yd. hydraulic work in Levee Dist. 1, Perry Co., to McWilliams Dredging Co., McCormick Bldg., Chicago, Ill., $0.1725 per cu.yd. Noted Jan. 1.

H. T., Pearl Harbor—Storehouse—Spec. 5003—Bureau Yards & Docks, Navy Dept., Wash., D. C., storehouse and quarters at naval operating base hospital, here, to W. F. Martens, 513 Hawaiian Trust Bldg., Honolulu, (1) $105,507 (2) $0.70 per cu.ft. Noted Jan. 1.

Unclassified

PROPOSED WORK

Cable — Massachusetts — Davis Bates Clapp Memo. Assn., plans laying and maintaining telephone cable in Hingham Bay from Crow Point, Hingham to Slate Island, Weymouth. Engineer not selected.

Sea Wall, etc.—Gloucester, Mass.—M. E. Mobiman plans fill solid and constructing sea wall in Monsons Cove. $25,000.

Wall—Melrose, Mass.—Dept. Pub. Buildings, making plans new wall and extension of present rear wall in Memorial Building. $40,500. J. R. Worcester & Co., 79 Milk St., Boston, engrs. Noted Dec. 4.

Docks — Baton Rouge, La. — Plans improving dock system. $350,000. J. W. Billingsley, Baton Rouge, consult. engr.

Underpass—Nashville, Tenn.—Davidson Co. Hy. Comn., Nashville Railway & Light Co., and Tennessee Central R.R. Co., H. R. Manby, ch. engr., 319 7th Ave., North Nashville, plan rebuilding underpass on Harding Pike at railroad crossing. $25,000.

Summer Resort—Ashtabula, O.—Woodland Beach Park Co., c/o McGarry & McGarry, archts., 4614 Prospect Ave., having plans prepared 140x180 ft. dance hall, 3 story 70x300 ft. clubhouse, bathing beach, boardwalk, skating rink, and amusement devices, Woodland Beach Park. $300,000.

Golf Course, etc. — Aurora, O. — A. B. Smythe Co., A. B. Smythe, pres., Erie Bldg., Cleveland, having sketches made 9 hole golf course, sewer and water mains, sewage disposal plant, water wells, pumps and roadways and walks, here. $300,000. Wight-O'Rourke Co., Rose Bldg., Cleveland, civil engrs.

Stadium — Oberlin, O. — Oberlin College, plans concrete and steel stadium. $52,000. Engineer not selected.

Grand Stand, etc.—Cleveland, O.—Thistledown Jockey Club Co., c/o J. H. McMellon, mgr., 917 Swetland Bldg., had plans prepared by Christian, Schwartzenberg & Gaeda, 1900 Euclid Bldg., 1 story, 183 x 290 ft., steel and timber grandstand, clubhouse and paddock building, Warrensville Center and Emery Rds. $150,000.

Seawall and Pier—Grosse Pointe Farms (branch of Detroit), **Mich.**—Made plans approximately 373 ft. seawall, incl. 300 cu.yd. concrete, also 840 ft. timber pier, etc. $25,000.

Oil Pipe Line—Texas—Humble Oil & Refinery Co., Humble Oil Co. Bldg., Houston, making plans 130 mi. pipe line from Kemper to San Angelo, etc. Private plans.

Transmission Line—Oklahoma—See "Waterworks" under Braman, Okla.

Tunnel—Oregon—City of Portland & Tunnel Dist. take bids in summer 1¼ mi. either double bore or flat arch tunnel from Portland to Mahlan Valley. $2,000,000. Address R. Tucker, chn. Mahlan Valley Tunnel Project, 395 East 16th St. N., Portland.

Power Line—Butte City, Calif.—See "Excavation, Drainage, Irrigation, Levees."

Grandstand — Los Angeles, Calif. — Los Angeles Baseball Club, 1940 South Hill St., having plans prepared by Z. T. Davis, 400 North Michigan Ave., Chicago, Ill., rein.-con. and steel grandstand, 20,000 seating capacity, plans so designed to permit additional ultimately deck at later date for 10,000 additional. Noted Oct. 2.

Golf Links—San Jose, Calif.—Commercial Club plans 18 hole golf course, drill wells, and install pumping plants, etc. $86,000.

Grain Elevator — Owen Sound, Ont. — Voted $450,000 bonds for grain elevator, 1,000,000 bu. capacity, on water front. C. Gordon, city clk. Noted Dec. 25.

BIDS DESIRED

Station Finish—Long Island City, N. Y.—Jan. 15, by Bd. Transportation, 49 Lafayette St., New York City, constructing station finish for 111th St. Sta., Queens Boro. J. H. Delaney, chn.

Heating and Ventilating—Baltimore, Md.—See "Buildings-Commercial."

Stadium—Macon, Ga.—Jan. 13, by O. Clark, city clk., for Centennial Stadium. Freeland, Roberts & Co., Independent Life Bldg., Nashville, Tenn., engrs. Noted Sept. 4.

Grade Separation—Springwells, Mich.—Jan. 27, by B. P. Esper, city clk., Municipal Bldg., constructing Schaefer Rd. and Detroit & Ironton R.R. grade separation. Hubbell, Hartgering & Roth, 2348 Penobscot Bldg., Detroit, consult. engrs.; adv. E. N.-R. Jan. 8.

BIDS RECEIVED

Heating, etc. — Elizabeth, N. J. — See "Buildings—Commercial."

Heating and Ventilating, etc.—Trenton Junction (Trenton P. O.), **N. J.** — See "Buildings—Commercial."

Plumbing—Elkins Park, Pa.—See "Buildings—Commercial."

Heating and Plumbing—Raleigh, N. C.—See "Buildings—Commercial."

Foundation—Milwaukee, Wis.—Bd. Industrial Educ., 7th and Prairie Sts., caisson and plain foundation for 3rd unit of continuation school, 7 story and basement, 150 x 210 ft., brick and concrete, 6th and Prairie Sts., from E. Steigerwald & Sons, 2303 Galena St., $127,950. Noted July 31.

CONTRACTS AWARDED

Concrete and Backfilling—Roxbury (Boston P. O.), **Mass.**—School House Dept., Boston, concrete work and backfilling on grounds of high school for girls, here, to T. O'Connor & Co., Cambridge, $25,897.

Heating and Plumbing—Brooklyn, N. Y.—See "Buildings-Commercial."

Heating, etc.—New York, N. Y.—See "Buildings-Commercial."

Heating—Salisbury, N. C.—See "Buildings—Commercial."

Piers, etc. — South Carolina — See "Bridges."

Subway—East St. Louis, Ill.—Terminal R.R. Co., Union Station, St. Louis, Mo., H. P. Pheifer, ch. engr., Pennsylvania R.R. Co., Union Station, Chicago, T. J. Skillman, ch. engr., Baltimore & Ohio R.R. Co., Merchants Loan & Trust Bldg., Chicago, H. A. Lane, Baltimore & Charles Sts., Baltimore, Md., ch. engr., and Southern R.R. Co., 13th and Pennsylvania Aves., Wash., D. C., R. Hayes, structural engr., will build 700 ft., rein.-con. subway with two 20 ft. roadways and two 5 ft. sidewalks on 9th St., here, by day labor. $500,000.

Heating and Plumbing—Muskegon, Mich.—See "Buildings—Commercial."

Plumbing and Ventilating—Springfield, Mo.—See "Buildings—Commercial."

Telephone Lines, etc.—St. Louis, Mo.—Southwestern Bell Telephone Co., Bway. and Locust Sts., will repair telephone lines, incl. repairs to 10,000 local phones, 27,000 poles, 3,500 mi. copper wire, etc., by day labor. $1,000,000.

Heating and Plumbing — Bartlesville, Okla.—See "Buildings—Commercial."

Street Lighting System — Los Angeles, Calif. — Street lighting system on Moneta Ave. between Florence and Manchester Aves., to Electric Lighting Supply Co., 214 West 3rd St., $43,542; Moneta Ave., between Main St. and Florence Ave., to Newbery Electric Corp., 724 South Olive St., $129,778; Western Ave. between Santa Barbara and Slauson Aves., to H. C. Reid & Co., 420 Grant Bldg., $81,860.

Foundation — Oakland, Calif. — General Petroleum Corp., Alaska Commrecial Bldg., San Francisco, concrete foundation, firewall, etc., for distributing plant and oil storage quarters on Parr Terminal, here, to Pan-Pacific Constr. Co., Citizens Natl. Bank Bldg., Los Angeles, approximately $123,300.

Radio Station—Drummondville, Que.—Marconi Wireless Telegraph Co., 111 St. Sacrament St., Montreal, constructing radio transmitting station, to A. F. Byers & Co., Ltd., 340 University Ave., Montreal, $155,000.

Material and Equipment

PROPOSED WORK

Tar Patch—Trenton, N. J.—Bd. Freeholders Mercer Co., plans to purchase 50,000 gal. tar patch for roads. $10,000. H. F. Harris, Court House, engr.

Road Machinery—Wisconsin—Eu Claire Co. appropriated $25,000 for road machinery during 1925, G. Osborne, comr.; Outagamie Co. $20,000, incl. power patrol grader and stone crusher, A. G. Brusewitz, comr.; Sauk Co. appropriated sufficient money to purchase drag line, 6 patrol graders and scrapers. W. Halberslaben, comr.

Road Machinery—Wisconsin—Juneau Co. appropriated $10,000 for road machinery, incl. 1 crushing outfit, E. T. Klug, Juneau, comr.; Burnett Co. $5,000, incl. several patrol graders, G. E. Miller, Webster, comr.; Bayfield Co. $7,500, incl. several patrol graders, J. Friberg, Washburn, comr.

Graders—Balsam Lake, Wis.—Polk Co., C. Nystrom, highway comr., plans to purchase 1 large and several patrol graders.

Road Machinery — Darlington, Wis. — Lafayette Co. appropriated $5,000 for road machinery, incl. tractor, graders and small tools. H. I. Shockley, Darlington, comr.

Road Machinery—Hudson, Wis.—Saint Croix Co. appropriated $6,000 for road machinery, incl. patrol graders and small tools. H. P. Olson, Hammond, comr.

Trenching Machine, etc.—Kenosha, Wis.—C. M. Osborn, city mgr., soon takes bids trenching machine to dig (maximum) trench 10 ft. deep, 30 in. wide; also 1 backfiller, 1 ton truck and two 1 ton truck chassis.

Gate Valves, etc.—Dallas, Tex.—M. G. James, city secy., soon takes bids twelve 12 in. and twenty-five 8 in. H. E. gate valves, $5,000; 350 tons 12 in. Class B, c.i. pipe, etc. E. A. Kingsley, city engr.

Fire Truck — McAlester, Okla. — See "Waterworks."

Street Sweeper—Tulare, Calif.—Plans to purchase 1 Elgin Motor Pickup Sweeper equipped with 1 extra broom. W. J. Andrews, city mgr.

BIDS DESIRED

Asphalt Sand, etc. — Brooklyn, N. Y. — Jan. 14, by E. Riegelmann, boro. pres., Boro Hall, 10,000 cu.yd. asphalt sand, and 10,000 cu.yd. steam cinders.

Pipe, etc.—New York, N. Y.—Jan. 14, by J. E. Bowe, comr. Dept. Purchase, Municipal Bldg., c.i. pipe, castings, hydrants, valves, etc., for Dept. Water Supply.

Stone Crushing Plant — Hollidaysburg, Pa.—Jan. 14, by Comrs. Blain Co., one rock crusher 10x20 in. or larger, having 16 to 24 tons per hour, equipped with manganese dies, one 14 in. x 24 ft. elevator complete with folding device, crusher mounted on steel truck with stub tongue, also 10 ft. revolving screen, 36 in. diam., gear driven, perforated as follows, 6 ft. of ¾ in. carrying 30 in. dust jacket fitted on 4 ft. of perforation (3 in.) together with necessary belting and driving chains for crusher to screen and elevator. C. F. Stout, Hollidaysburg, engr.

Steam Shovel, etc.—Columbus, O.—Jackson Pike Sand & Gravel Co., 576 North High St., in market for one 20-ton steam shovel, 2 loading machines, 2 crushers, 1 conveyor, and 1 masher. J. F. Baird, genl. mgr.

Road Roller—Iron Mountain, Mich.—H. C. Lindholm, city clk., in market for road roller.

Excavators, etc.—London, Ont.—Ontario Farmers Drainage Co., 110 Dundas St., wants prices on excavators and drainage equipment.

Crushers—Toronto, Ont.—Peerless Artificial Stone, Ltd., Coxwell Ave., in market for crushers with 8 x 12 in. jaws.

Pipe—Point Grey, B. C.—Jan. 12, by Council, 3,500 ft. 4 in., 20,000 ft. 6 in., 6,000 ft. 8 in. and 750 ft. 10 in. steel or wrought iron pipe. $40,000. W. Greig, 5851 West Boulevard, Vancouver, engr.

Coal Loader—Two Harbors, Minn.—Jan. 12, coal loader with gas driven and electric motors. E. Carlson, city clk.

Grader—Houston, Tex.—H. L. Washburn, aud. Harris Co., taking bids for road grader as per specifications of county engineer. $1,500.

Generator—Stillwater, Okla.—Jan. 16, by G. E. Watkins, city clk., new 750 kw. or 937 kva. steam turbine generator unit, with foundations, condenser pumps and power wiring unit. $55,000. J. W. McLendon, Stillwater, engr.

BIDS RECEIVED

Pipe—Baltimore, Md.—Bd. Awards, furnishing and loading rein.-con. pipe, from Core Joint Concrete Pipe Co., Irvington, N. J., $49,450.

CONTRACTS AWARDED

Asphaltic Cement, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro., Municipal Bldg., 600,000 gal. asphaltic cement, to Warner-Quinlan Co., 79 Wall St., $40,930; 20,000 cu.yd. asphalt sand, to Z. Mahoney, 557 46th St., Brooklyn, $21,800; 20,000 bags Portland cement, to Terminal Supply Co., 350 Madison Ave., $14,160; 30,000 gal. gasoline, to Bang Serv. Sta., Inc., Arden St. and Bway., $3,870. Noted Jan. 1.

Cable and Weatherproof Wire — Milwaukee, Wis.—Central Bd. Purchases., 30,000 ft. No. 10 wire, to J. Andrae & Sons, 362 Bway., $1,073; 10,000 lbs. weatherproof wire, to General Electric Co., 217 Sycamore St., $320; 27,000 ft. paper insulated wire, to Western Electric Co., 460 Milwaukee St., $13,640. Noted Dec. 18.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: Jan. 27.

Conduit

CONTRACT 219

New York, N. Y.

SEALED BIDS will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers streets, New York City, until 11 a.m., Eastern Standard time, on Tuesday, January 27, 1925, for Contract 219, for the construction of Section 1 of the Williamsburg conduit, a portion of the City conduits of the Catskill aqueduct, extending from Shaft 24 of the City tunnel in Fort Greene park along Myrtle, North Portland, Park, Franklin and Wythe avenues and Hooper, South 1st, Maujer and Leonard streets to a point in Leonard street about 115 feet south of Metropolitan avenue, in the Borough of Brooklyn, New York City.

The conduit will consist of about 15,250 linear feet of 72-inch steel pipes, about 250 tons of cast-iron pipes and special castings of various sizes, a Venturi meter, valves and other appurtenances, all of which will have to be maintained for one year.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President,
JAMES P. SINNOTT,
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGLER,
Secretary.

Bids: Feb. 17.

Bascule Bridges

Tampa, Fla.

Sealed proposals, addressed to the City Commission, Tampa, Florida, for the construction of bridges over Hillsborough River at Cass Street and at Platt Street in the City of Tampa, Florida, will be received by the City Commission, City Hall, Tampa, Florida, until 11:00 a.m., February 17, 1925, and not thereafter, and at that time will be publicly opened and read. Said proposals should be indorsed "Proposal for construction of bridges at Cass Street and at Platt Street."

Plans, specifications, form of proposal, bond and contract for the work are on file in the office of the City Engineer, City Hall, Tampa, Florida, and may be there seen.

Copies of plans and specifications may be obtained from the City Engineer or from The Strauss Bascule Bridge Company, 225 North Michigan Avenue, Chicago, Illinois, upon written application therefor and the deposit of Thirty Dollars ($30.00), Twenty Dollars ($20.00) of which sum will be refunded upon return of the plans and specifications in good condition within forty-five (45) days time following the opening of bids.

Each of the two (2) bridges has a channel span consisting of a double-leaf, underneath counterweight type of Strauss Trunnion Bascule Bridge measuring one hundred twenty-five feet (125' 0") center to center of main trunnions, flanked on each side with reinforced concrete spans and retaining walls, the over-all length of the structures being approximately five hundred fifty feet (550' 0") at Cass Street and approximately seven hundred feet (700' 0") at Platt Street, each structure providing a forty foot (40' 0") roadway and two (2) eight foot (8' 0") sidewalks.

All proposals must be made upon blank forms attached to the specifications. Each bid is to be presented enclosed in sealed envelopes furnished by the City of Tampa for this purpose, indorsed as above provided, and filed with the City Commission, City Hall, Tampa, Florida, and shall be accompanied by a certified check or bid bond made payable to the City of Tampa for an amount equal to ten per cent (10%) of the amount of the total bid, and no bid shall be considered unless such check or bid bond is enclosed therewith. Such certified check or bid bond shall be delivered upon condition that if said bid be accepted, the party bidding will promptly and properly enter into and execute a contract and bond in accordance with the award. Should the successful bidder to whom the contract is awarded fail to execute the same within ten (10) days, not including Sunday or Legal Holidays, from the date of notification of such award, such security shall be forfeited to the City of Tampa as liquidated damages, and the same shall become the property of the City of Tampa. Certified checks or bid bonds of the unsuccessful bidders will be returned to the bidders who submitted them.

A good and sufficient Surety Company's bond, acceptable to the City Commission of the City of Tampa, Florida, will be required for the faithful performance of the construction contract in a sum equal to fifty per cent (50%) of the amount of the contract price.

Contract and bond shall be approved by the City Commission and executed for the City of Tampa by the Mayor Commissioner.

The City of Tampa reserves the right to waive formalities and reject any and all bids.

CITY OF TAMPA
By W. LESLEY BROWN,
City Manager.
By R. D. MARTIN,
City Engineer.
THE STRAUSS BASCULE
BRIDGE COMPANY,
Consulting Engineers

Bids: Jan. 22.

Fire Protection

ROME STATE SCHOOL

Rome, N. Y.

Sealed proposals for Water Supply for Fire Protection, Rome State School for Mental Defectives, Rome, N. Y., will be received by Superintendent of Purchase, Department of Architecture, Room 408, Capitol, Albany, N. Y., until 3 o'clock p.m., on Thursday, January 22nd, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to Six Hundred Dollars (600.00). The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specification No. 4434. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Rome State School for Mental Defectives, Rome, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon request.

Dated: December 12, 1924.

OFFICIAL PROPOSALS

Bids: Jan. 21.

Heating Work

STATE HOSPITAL

Buffalo, N. Y.

Sealed proposals for Heating Work, Additional Boiler Capacity, etc., Buffalo State Hospital, Buffalo, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 3 o'clock p.m., on Wednesday, January 21, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to Three Thousand Five Hundred Dollars ($3,500). The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 4390. The right is reserved to reject any or all bids. Drawings and Specifications may be examined at the Buffalo State Hospital, Buffalo, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23rd Street, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y.

Dated, December 18, 1924.

Bids: Jan. 22.

State Hospital Work

Raybrook, N. Y.

Sealed proposals for Water Supply for Cooling Purposes, Store House and Cold Storage Building, New York State Hospital for the Treatment of Incipient Pulmonary Tuberculosis, Raybrook, N. Y., will be received by Superintendent of Purchase, Room 408, Department of Architecture, Capitol, Albany, N. Y., until 3 o'clock p.m. on Thursday, Jan. 22, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to Three Hundred Dollars ($300). The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract, and in accordance with the terms of Specification No. 4413. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the New York State Hospital for the Treatment of Incipient Pulmonary Tuberculosis, Raybrook, N. Y., at the New York Office of the Department of Architecture, 18th floor, Fuller Building, Broadway and 23rd St., and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, Specifications and blank forms may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon request.

Dated: December 12th, 1924.

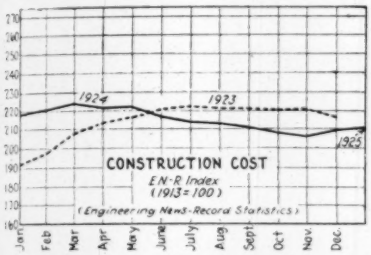
CONSTRUCTION NEWS

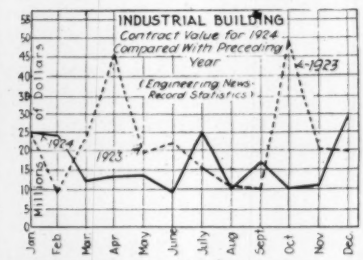
Engineering News-Record, January 15, 1925

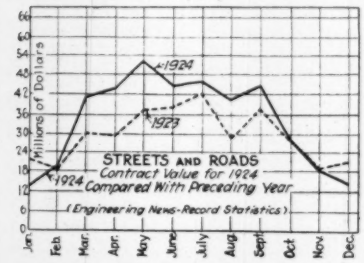
The Construction Barometer

Large Public Buildings Hold Lead Over Other Commercial Types In Number and Value of Weekly Lettings

PUBLIC buildings, valued at $150,000 and over, continue to hold the lead over other buildings of a commercial nature. This is shown by consistent gains, recorded from week to week, in value of contracts let since Dec. 18. During the second week in January the number of lettings also began to increase in this class of construction. While the public building situation is nationwide in scope, there are steady upward tendencies noted in certain localities as applied to other classifications. The volume of street and road work, for instance, is increasing in the South; private commercial building contracts are becoming more numerous in the states immediately west of the Mississippi; sewer construction shows greater activity in the Far West. Increased cost has not inhibited the growth of volume.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

Value of Large Contracts Let In The United States

Week Ended	Public Work	Private Work	Total Contracts
Dec. 25	$14,120,000	$32,806,000	$46,926,000
Jan. 1	13,014,000	14,086,000	27,100,000
Jan. 8	14,802,000	22,525,000	37,327,000
3 weeks	$41,936,000	$69,417,000	$111,353,000

Large Building Contracts—Number and Value

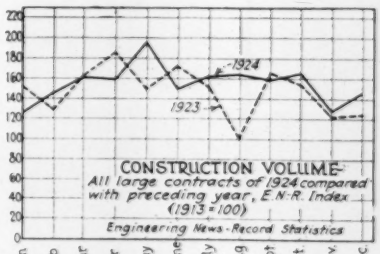
Week Ended	Commercial Public No.	Commercial Public Thousand	Commercial Private No.	Commercial Private Thousand	Industrial No.	Industrial Thousand
Dec. 25	9	$3,024	31	$19,531	27	$12,945
Jan. 1	9	4,022	14	12,434	11	1,583
Jan. 8	23	5,286	31	15,385	21	5,517
3 weeks	41	$12,332	76	$47,350	59	$20,045

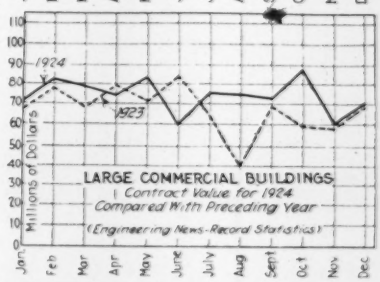
Number Of Large Jobs Now Out For Bids

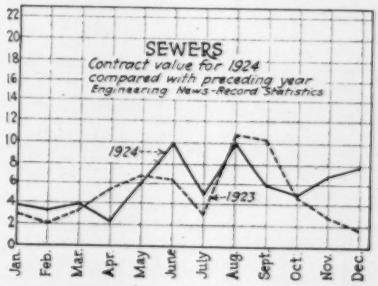
Week Ended	Private	Commercial Buildings	Streets and Roads	Waterworks and Sewers	All Public
Dec. 25	26	38	51	20	141
Jan. 1	17	20	28	20	109
Jan. 8	27	28	34	19	125

Fluctuations In Basic Factors Of Construction Cost

	Quoted on Jan. 15 at	Last Price Change Was	On
Structurals, Pittsburgh, 100 lb.	$2.10	$2.00 @2.10	Jan. 8
Cement, Chi., net bbl.	2.10	2.20	Dec. 25
Pine, N. Y., M. ft.	57.00	58.00	Jan. 8
Fir., San Fran., M. ft.	29.00	31.00	Oct. 30
Common labor, hr.	.55¼	.56¼	Dec. 25







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
Jan. 16	Millville, N. J.	Jan. 15
Jan. 17	Otisville, N. Y.	Jan. 8
Jan. 19	Foulkton, S. D.	Jan. 1
Jan. 19	Buffalo, N. Y.	Jan. 15
Jan. 20	St. Paul, Minn.	Jan. 15
Jan. 20	New York, N. Y.	Jan. 15
Jan. 21	Detroit, Mich.	Jan. 15
Jan. 21	Penitas, Tex.	Jan. 15
Jan. 21	Milwaukee, Wis.	Jan. 15
Jan. 21	Wetumka, Okla.	Jan. 15
Jan. 23	Milwaukee, Wis.	Jan. 15
Jan. 24	Jackson, Mich.	Jan. 1
Jan. 26	New Orleans, La.	Dec. 11
Jan. 27	Brooklyn, N. Y. Adv. Jan. 8 and 15.	Jan. 15
Jan. 28	Los Angeles, Calif.	Jan. 15
Jan. 28	Port Angeles, Wash.	Jan. 15
Jan. 29	Baton Rouge, La.	Jan. 15
Feb. 3	Buffalo, N. Y. Adv. Jan. 15.	Jan. 15
Feb. 3	East Stroudsburg, Pa. Adv. Jan. 15.	Jan. 15
	SEWERS	
Jan. 19	Long Island City, N. Y.	Jan. 15
Jan. 20	St. Paul, Minn.	Jan. 15
Jan. 21	Brooklyn, N. Y.	Jan. 15
Jan. 21	Amite City, La.	Jan. 1
Jan. 21	Wetumka, Okla.	Jan. 15
Jan. 21	Hamilton, Ont.	Jan. 15
Jan. 22	Mission, Tex.	Jan. 15
Jan. 22	Minneapolis, Minn.	Jan. 15
Jan. 26	California	Jan. 15
Jan. 29	Wash., D. C. Adv. Jan. 15.	Jan. 15
Feb. 1	Pittsburg, Okla.	Jan. 15
Feb. 2	Los Angeles, Calif.	Jan. 15
Feb. 16	New Orleans, La.	Jan. 15
	WASTE DISPOSAL	
Jan. 20	Los Angeles, Calif.	Jan. 1
	BRIDGES	
Jan. 20	New York, N. Y.	Jan. 1
Jan. 23	Tennessee	Jan. 8
Jan. 26	Mobile, Ala. Adv. Jan. 15.	Jan. 15
Jan. 26	Keewatin, Ont.	Jan. 15
Jan. 27	Forest City, S. D.	Jan. 1
Feb. 3	Louisiana	Jan. 1
Feb. 4	Alabama	Jan. 15
Feb. 10	Annapolis, Md.	Jan. 15

Bids Close		See Eng. News-Record
Feb. 10	Brownsville, Tex.	Jan. 8
Feb. 17	Tampa, Fla.	Jan. 8
	Adv. Jan. 8 and 15.	

EXCAVATION, DRAINAGE IRRIGATION, LEVEES

Jan. 26	St. Petersburg, Fla.	Dec. 18
Feb. 3	Trenton, N. J.	Jan. 15
	Adv. Jan. 15.	

STREETS AND ROADS

Jan. 19	Wewoka, Okla.	Jan. 15
Jan. 19	Phila., Pa.	Jan. 15
Jan. 20	Louisiana	Jan. 1
Jan. 20	Aiken, S. C.	Jan. 8
Jan. 20	Tampa, Fla.	Jan. 15
Jan. 20	Oklahoma City, Okla.	Jan. 15
Jan. 21	Larned, Kan.	Dec. 18
Jan. 21	Ft. Smith, Ark.	Jan. 8
Jan. 22	Van Buren, Ark.	Jan. 8
Jan. 23	Pennsylvania	Jan. 8
	Adv. Jan. 8 and 15.	
Jan. 24	Pennsylvania	Jan. 8
	Adv. Jan. 8 and 15.	
Jan. 25	Robertsonville, N. C.	Jan. 15
Jan. 26	Arizona	Jan. 15
Jan. 27	St. Louis, Mo.	Jan. 8
Jan. 27	South Carolina	Jan. 8
Jan. 27	Louisiana	Jan. 8
Jan. 27	Massachusetts	Jan. 15
Jan. 27	St. Paul, Minn.	Jan. 15
Jan. 28	Wetumka, Okla.	Jan. 15
Jan. 28	Gretna, La.	Dec. 25
Jan. 29	Quincy, Ill.	Jan. 8
	Adv. Jan. 8 and 15.	
Jan. 29	Vero, Fla.	Jan. 8
Jan. 30	Anniston, Ala.	Jan. 8
Feb. 1	Hebbronville, Tex.	Jan. 15
Feb. 2	Floresville, Tex.	Jan. 15
Feb. 5	Topeka, Kan.	Jan. 15

BUILDINGS—INDUSTRIAL

Jan. 21	Baltimore, Md.	Jan. 8
Jan. 28	Winona, Minn.	Jan. 8
Feb. 2	San Bernardino, Calif.	Jan. 15
Mar. 1	Youngstown, O.	Jan. 15

BUILDINGS—COMMERCIAL

Jan. 16	New Bedford, Conn.	Jan. 15
Jan. 19	West Roxbury (Boston P. O.), Mass.	Jan. 8
Jan. 19	Gettysburg, Pa.	Jan. 8
Jan. 19	New London, Conn.	Jan. 15
Jan. 19	Camden, N. J.	Jan. 15
Jan. 19	New Orleans, La.	Jan. 15
Jan. 20	Halfway, Mich.	Jan. 8
Jan. 20	Reading, Pa.	Jan. 15
Jan. 20	Carlisle, Pa.	Jan. 15
Jan. 20	Birmingham, Ala.	Jan. 15
Jan. 20	Baltimore, Md.	Jan. 15
Jan. 21	Brooklyn, N. Y.	Jan. 8
Jan. 22	Van Buren, Tex.	Jan. 8
Jan. 23	Buffalo, N. Y.	Jan. 15
Jan. 24	Jackson, Miss.	Jan. 15
Jan. 25	Birmingham, Ala.	Nov. 20
Jan. 27	New York, N. Y.	Jan. 8
Jan. 27	Roaring Gap, N. C.	Jan. 15
Jan. 27	Derby, Conn.	Jan. 15
Jan. 31	Fond du Lac, Wis.	Jan. 15
Feb. 3	Eureka, Calif.	Jan. 15
Feb. 3	Winston Salem, N. C.	Jan. 15
Feb. 4	Kings Park, N. Y.	Jan. 15
	Adv. Jan. 15.	
Feb. 15	Youngstown, O.	Jan. 15

FEDERAL GOVERNMENT WORK

Jan. 20	Counterweights — Florence, Ala.	Jan. 8
	Adv. Jan. 8 and 15.	
Jan. 21	Boiler Plant—Puget Sound, Wash.	Jan. 1
Jan. 21	Capstans — Portsmouth, N. H.	Jan. 8
Jan. 22	Dam—American Falls, Idaho	Dec. 18
Jan. 22	Barracks—Fort Benning, Ga.	Jan. 1
	Adv. Jan. 1 to 15.	
Jan. 26	Post Office — Gloucester, Mass.	Jan. 8
Jan. 27	Drainage—Vicksburg, Miss.	Jan. 1
	Adv. Jan. 1 to 15.	
Jan. 28	Insulators—Florence, Ala.	Jan. 15
	Adv. Jan. 15.	
Jan. 29	Dredging Sleeves—Phila, Pa.	Jan. 15
Jan. 29	Cable—Florence, Ala.	Jan. 15
Jan. 30	Post Office—Fulton, N. Y.	Jan. 8
Jan. 31	Lock Gates—Florence, Ala.	Jan. 1
	Adv. Dec. 25 to Jan. 15.	
Jan. 31	Jetty Repairs—Galveston, Tex.	Jan. 8
	Adv. Jan. 8 and 15.	
Feb. 4	Repairs — Puget Sound, Wash.	Dec. 18
Feb. 4	Pier—Bremerton, Wash.	Dec. 25
Feb. 6	Post Office—Clarksburg, W. Va.	Jan. 15
	Adv. Jan. 15.	

Bids Close		See Eng. News-Record
Feb. 10	Filtration Plant—Tuskagee, Ala.	Jan. 15
Feb. 11	Well Houses — Annapolis, Md.	Jan. 8
Feb. 18	Radio Tower—Cavite, P. I.	Jan. 15
Feb. 18	Extension—Keyport, Wash.	Jan. 15

UNCLASSIFIED

Jan. 21	Heating System — Buffalo, N. Y.	Jan. 1
Jan. 22	Fire Protection — Rome, N. Y.	Jan. 1
Jan. 22	Cooling System—Raybrook, N. Y.	Jan. 1
Jan. 26	Bulkhead, etc.—St. Petersburg, Fla.	Dec. 18
Jan. 26	Subway—New York, N. Y.	Jan. 1
Jan. 27	Grade Separation—Springwells, Mich.	Jan. 8
Jan. 29	Subway—New York, N. Y.	Jan. 1
Feb. 3	Borings—Phila., Pa.	Jan. 15
	Adv. Jan. 15.	
Feb. 4	Fire Sprinklers—Rochester, N. Y.	Jan. 15
	Adv. Jan. 15.	
Feb. 4	Heating Work—Ogdensburg, N. Y.	Jan. 15

MATERIAL AND EQUIPMENT

Jan. 19	Cement—New York, N. Y.	Jan. 15
Jan. 19	Cement Trucks, etc.—New York, N. Y.	Jan. 15
Jan. 20	Road Roller, etc.—Toronto, Ont.	Nov. 27
Jan. 20	Road Scrapers and Graders—Jefferson, Wis.	Jan. 15
Jan. 21	Cement, Gravel, etc.—Brooklyn, N. Y.	Jan. 15
Jan. 23	Sand and Gravel—Minneapolis, Minn.	Jan. 15
Jan. 26	Tractor—Hillsboro, Tex.	Jan. 15
Jan. 29	Rip rap, stone, etc.—New Orleans, La.	Jan. 15
Feb. 6	Trucks—Georgia	Jan. 15
Feb. 10	Tractor—Ballinger, Tex.	Jan. 15

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Boston—Plans 48 in. low pressure mains throughout city. $800,000. F. H. Fay, chn. City Planning Bd.

N. C., Asheville—Plans to issue $550,000 bonds for water and sewer construction.

N. C., Cary—Plans waterworks. $100,000 bonds sold. G. C. White & Co., Durham, engr.

N. C., Durham — Plans extending city limits, incl. extension of water, sewer lines, streets, etc. $600,000. R. W. Rigsby, Durham, city mgr.

Tenn., Chattanooga—Plans election $45,000 bonds extending mains in various streets.

Tenn., Jefferson City—Plans waterworks, $15,000. Engineer not selected.

O., Youngstown—Plans extending watermains. $100,000. G. Turner, city engr.

Wis., Lancaster — City, c/o F. Barnett, city clk., plans to purchase oil engine and belt driven centrifugal pump, 500 g.p.m. capacity, or triplex pump operated by electric motor and industrial engine. W. G. Kirchoffer, Dean Bldg., Madison, engr.

Wis., Milwaukee — H. Bohman, supt. Water Dept., plans relining reservoir, probably with gunite. $45,000.

Wis., Sturgeon Bay—Plans reservoir and artesian well on Houles Hill. To exceed $15,000. Engineer not selected. E. S. Ackerman, city clk.

Wis., Thorp—Takes bids in spring, c.i. mains in various streets. $15,000. Engineer not selected. H. Holzhausen, city clk.

Ia., Diagonal—Voted $24,000 bonds new waterworks. W. B. Rollins & Co., 321 Railway Exch. Bldg., Kansas City, Mo., engrs. Noted Jan. 8.

Ia., Glenwood—Voted $20,000 bonds, for deep well supply, pump house, etc. Total $20,500. Engineer not selected. Noted Dec. 18.

Neb., Ruskin — Defeated $20,000 bonds for water system. Noted Jan. 1.

Mo., Neosho—Election in spring $25,000 bonds 1 m.g. reservoir. D. H. Lewis, city clk.

Mo., Salem—Takes bids in February complete waterworks and distribution system, incl. pumps, tank on tower, etc., also a complete sanitary sewerage system. $90,000 bonds voted. Noted Jan. 8.

Mo., Salem—Voted $90,000 bonds, waterworks and sewer improvements. Alexander Eng. Co., 517 Woodruff Bldg., Springfield, engrs. Noted Dec. 25.

Mo., Steele — Election Jan. 27, $[illegible] bonds waterworks plant, pumps, reservoir, distribution mains, etc. $30,000. A. C. Moore, 222 Industrial Bldg., Joplin, engr.

Tex., Dilley—Election Feb. 14, $[illegible] bonds for waterworks plant, distributing system and 50,000 gal. elevated water tank. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Goree—M. Armstrong, mayor, soon takes bids waterworks. $35,000. Douglas & Mitchell, Ward Bldg., Wichita Falls, engrs.

Tex., Houston — Election in February $500,000 bonds 10 m.g. reservoir near central pumping plant at Capitol Ave. Bridge, 2 pumping plants on east side, etc. O. F. Malcombe, mayor. Engineer not announced.

Tex., Marlin — Plans improving waterworks and sewer plants. $60,000. C. L. Hutchins, city secy. Engineer not announced.

Tex., Mexia—Election Jan. 27, $40,000 bonds water reservoir. Address R. D. Morgan, city secy. and engr.

Tex., Weslaco—Election Feb. 9, $20,000 bonds, waterworks supply improvements, incl. pumping plant and c.i. pipe distribution system. H. E. Bennett, Mercedes, engr.

Okla., Oklahoma City—Election Apr. 7, $350,000 bonds, for main extensions. B. M. Hart, City Hall, engr.

Okla., Quinton—Voted $16,000 bonds for filtration plant and tank on tower. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 18.

Okla., Tulsa — Defeated $650,000 bonds for extending mains, etc. C. Schultz, City Hall, engr. Noted Jan. 1.

Wash., Raymond—Made sketches improving water system. $124,000-$146,000. Stevens & Koon, Spaulding Bldg., Portland, engrs.

Wash., Seattle—Plans 8 in. concrete lined water main and gas main tunnel under Dunwamish Waterway, foot of Rist Ave. S. $190,000 pumping station gates, hydrants and 20 in. pipe line on 1st Ave. S. $715,000, 30 in. mains on 1st Ave. S. and Spokane St. to tunnel $182,000, and Olympic Heights tank to hold supply for district $115,000, in western section of city.

Wash., Seattle—Takes bids about Jan. 29, 900,000 gal. steel on concrete standpipe, 65 ft. high, 50 ft. diam., in Woodland Park. $25,000. J. D. Blackwell, 7705 Seward Park, engr.

Wash., Yakima—C. F. Wilson, city engr., submitted report to City Council, improvements to water supply, 16 m.g. reservoir $181,750; improvements in city and to reservoir if portion of mains are constructed of wood $254,900, steel or c.i. pipe used $304,710; all improvements exclusive of reservoir, if water is drawn at Oak Flats $835,750-$982,500.

Calif., San Diego—F. A. Rhodes, mgr. operation, plans to purchase pumps at Chollas reservoir to supply water to East San Diego section, for Common Council. $6,000.

Ont., Kingston — Plans 53 new water hydrants. H. S. Dick, city engr.

BIDS DESIRED

N. Y., Brooklyn—Jan. 27, by Bd. Water Supply, Municipal Bldg., New York City, Sect. 1, Williamsburg conduit, a portion of city conduits of Catskill Aqueduct, here. G. J. Gillespie, pres.; adv. E. N.-R. Jan. 15.

N. Y., Buffalo — Jan. 19, by Commissioner Pub. Wks., 5 surface condensers in Ward Pumping Station. G. C. Andrews, Col. Ward Pumping Station, engr.

N. Y., Buffalo — Feb. 3, by W. F. Schwartz, comr. Pub. Wks., filter sand and gravel for filter plant, Contr. 23. G. C. Andrews, filtration engr.; adv. E. N.-R. Jan. 15.

N. Y., New York—Jan. 20, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Duncan and East 213th Sts., Allerton, Arnow, Byron, Colden, Fish, Hill, Hering, Laconia, Lurting, Mace, Mickel, Needham, Nereid, Seymour, Throop, Tenbroeck, Waring and Yates Aves.

N. J., Millville — Jan. 16, by Bd. City Comrs., City Hall, additional c.i. mains, services and hydrants, etc., in various streets. N. B. Wade, city engr.

Waterworks (Continued)

Pa., East Stroudsburg—Feb. 3, at office D. H. Learn, boro secy., South Courtland St., c.i. water pipe, f.o.b. East Stroudsburg; adv. E. N.-R. Jan. 15.

N. C., Highlands—Jan. 28, by H. M. Bascom, mayor and Bd. Aldermen, at mayor's office, waterworks, incl. approximately 14,000 lin.ft. 6 in., 4,000 lin.ft. 8 in. c.i. pipe, 4,000 lin.ft. 2 in. galvanized iron or 2 in. c.i. pipe, etc. W. H. Booker, Charlotte, engr.

La., Baton Rouge—Jan. 29, by Comn. Council, City Hall, pumping station at University Lake. J. W. Billingsley, City Hall, consult. engr.

Mich., Detroit—Jan. 21, by F. W. Meyer, comr. Dept. Purchases & Supplies, 710 Marquette Bldg., 300 six in. gate valves, for Detroit Water Dept. To exceed $5,000.

Wis., Milwaukee—Jan. 21, by Central Bd. Purchase, 3,060 4 tons 54 in. straight, and 21.75 tons 54 in. lugged pipe, also 32.9 tons specials, to Water Dept. D. W. Hoan, chn.

Wis., Milwaukee—Jan. 23, by Central Bd. Purchases, 125 tons special castings for Class C pipe, also stop cock boxes and parts, for Water Dept.

Minn., St. Paul—Jan. 20, by H. W. Austin, city purch. agt., for 100 tons c.i. water pipe specials, 310 gate valves, various sizes. G. M. Shepard, city engr.

Tex., Penitas—Jan. 21, by W. L. Rockwell, engr., Edinburg, pumping plant, power house, concrete discharge tubes, concrete canal structures and all accessories, here, for Hidalgo Water Impvt. Dist. 4, Edinburg. $75,000.

Okla., Wetumka—Jan. 21, by C. Hamilton, city clk., new 500,000 g.p.d. purification plant, basins, pumps, chemical equipment, piping, valves, hydrants, 250,000 gal. reservoir, 10,950 ft. 6- to 10-in. c.i. mains, etc., $53,000; also rebuilding electric light and distributoin system, and new "White Way" ornamental lighting system, $18,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Nov. 13.

Wash., Port Angeles—Jan. 28, by City Council, dam, headworks and flow line concrete dam, 37,000 lin.ft. 20 and 24 in. wood or steel pipe; 6 m.g. concrete reservoir, earth embankment type, incl. 1,800 cu.yd. concrete; distribution system improvements, 4,000 lin.ft. 20 in. pipe and approximately 11,000 lin.ft. 4- to 16-in. wood pipe. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs. T. Owen, city engr.

BIDS RECEIVED

N. Y., Buffalo—Comr. Pub. Wks., furnishing single stage vertical type centrifugal drainage pump for filter plant, from Root, Neal & Co., 178 Main St., $1,734; single stage horizontal type pump, from A. J. Abels Co., Inc., 33 Chandler St., $1,920. Noted Dec. 18.

Wis., Milwaukee—Central Bd. Purchases, D. W. Hoan, chn., Jan. 5, brass meter cocks, couplings, corporation cocks and curb cocks, from Mueller Mfg. Co., 434 West Cerro Gordo St., Decatur, Ill., $10,056. Noted Jan. 1.

Wash., Seattle—Bd. Pub. Wks., Dec. 26, from F. Arcorace, Seattle, mains in 22nd Ave., et al., 232 ft. 8 in. c.i. pipe $1.82, 232 ft. 6 in. c.i. pipe $1.40, etc., total $25,974. Engrs. est. $27,391.

Wash., Seattle—Watermains, et al., from V. Ramagalia, 4515 1st St. N. E., 3,900 ft. 20 in. c.i. pipe $6.80, two brick valve chambers $100, total $30,713. Engrs. est. $37,276.

CONTRACTS AWARDED

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Ocean Parkway, mains in Brighton Beach, Mermaid, Neptune, Stillwell and Surf Aves., etc., here, to N. DeStefano, 257 Glenn Ave., Tompkinsville, $289,000; mains in Bedford, Hamilton, Highlawn, New Utrecht, Stillwell, and 12th Aves., etc., Haring, 65th, 70th, 91st, East 34th and 94th Sts., here, to Knight & DeMicco, Inc., 448 East Tremont Ave., New York City, $14,190. Noted Jan. 8.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bradley and 4th Aves, etc., to F. Hanratty, 605 Beach Terrace, New York City, $6,899. Noted Jan. 8.

N. J., Manasquan—Boro Council extending water distribution system in 11 streets, to W. G. Fritz Co., 258 Valley Rd., West Orange, $26,844. Noted Dec. 11.

Ill., Springfield—City Comn., general contract 12 m.g., iron removal water softening and filtration plant, to Cope & Fisher, Decatur, $396,000; filtration, to E. W. Bachrach & Co., 616 Rialto Bldg., Kansas City, Mo., $56,900; sludge removal equipment, to Door Co., 247 Park Ave., New York City, $15,004; wash water steel tower and tank, to Chicago Bridge & Iron Wks., 608 South Dearborn St., Chicago, $5,100. Noted Nov. 27.

Wis., Madison—For Nine Springs force main, 18,222 lin.ft. 30 in. c.i. pipe, to J. R. Cullinance, 618 West Dayton St., Madison, $87,000. Noted Jan. 1.

Wis., Milwaukee—Central Bd. Purchase, 200 fire hydrants to R. D. Woods & Co., 400 Chestnut St., Phila,. Pa., at $83.50 each. Noted Jan. 1.

Mo., Springfield—Springfield Water Co. will extend 8 in. mains, by day labor. $15,000.

Sewers

PROPOSED WORK

Mass., Lynn—Plans outfall sewer line to point 3 mi. further beyond present outfall on Lynn Harbor. $1,500,000.

W. Va., Charleston—See "Streets and Roads."

N. C., Asheville—See "Waterworks."

N. C., Durham—See "Waterworks."

Mich., Detroit—Dept. Pub. Wks., making plans 5,975 ft. 12- to 24-in. vitr. crock sewer in Lateral 4296; 1,952 ft. vitr. sewer in Lateral 4292; and 769 ft. 12- to 15-in. sewer in Lateral 4289. G. Jerome, city engr.

Ill., Taylorville—Bd. Trustees Sanitary Dist., T. H. Weitzel, secy., soon takes bids outfall sewerage system, disposal plant, etc. Kelker Deleuw Co., 111 West Washington St., Chicago, engrs. Noted Aug. 21.

Wis., Tomahawk — See "Streets and Roads."

> ***From Baltimore***
>
> **"The building program in Baltimore amounts to about $100,000,000 in new buildings, roads, sewers and other municipal work for 1925. All authorities agree that the coming year will break all previous records."**
>
> ***Construction News Correspondent***

Mo., St. Louis—Streets and Sewer Constr. Div., Bd. Pub. Serv., plans to expend $4,306,000 for sewers, also two bond issue projects totaling $2,500,000, for Rock Springs Mill Creek relief sewer and section of River Des Peres north of Forst Park. W. W. Horner, ch. engr.

Mo., Salem—See "Waterworks."

Tex., Marlin—See "Waterworks."

Tex., New Braunfels—Making plans 8.6 mi. 6- to 15-in. sewers, 81 manholes, 2 flush tanks, disposal plant, 7,500 cu.yd. excav., 1,400 yd. filter material, etc. $85,000. Terrell Bartlett Engineers, Inc., 614 Calcasieu Bldg., San Antonio, engrs.

Okla., Oklahoma City—Election Apr. 7, $1,900,000 bonds 4 mi. outfall sewers and disposal plant. B. M. Hart, City Hall, engr.

Calif., Long Beach—Making plans drainage system in 21st and Hill Sts. between Pasadena and Oregon Aves. $80,000-$85,000. R. D. Van Alstine, city engr.

Ont., Peterboro—Made plans and soon takes bids rein.-con. sewage disposal plant. $50,000. R. H. Parsons, city engr.

Ont., Toronto—Plans 11,000 ft. 8- to 24-in. vitr. tile sanitary and storm sewers in Don Esplanade $37,020, and Hanson St. $765. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Brooklyn — Jan. 21, by J. A. Gulder, boro. pres., Boro Hall, sewers in Bway., Bergen Pl., 90th St., Liberty, Drew, Belmont and Lefferts Aves.

N. Y., Long Island City—Jan. 19, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Queens Blvd. and Laburnum Ave., etc.

D. C., Wash.—Jan. 29, by Dist. Comrs., sewers in various streets; adv. E. N.-R. Jan. 15.

La., New Orleans—Feb. 16, by Sewerage & Water Bd., 526 Carondelet St., one 400 g.p.m. and one 200 g.p.m. boiler feed water pumps, and one 2,800 g.p.m. centrifugal pump. A. G. Moffatt, secy.

Minn., Minneapolis—Jan. 22, by H. W. Austin, city purch. agt., two 5 ton trucks for Sewer Dept. N. W. Elsberg, city engr.

Minn., St. Paul—Jan. 20, by H. W. Austin, city purch. agt., Belt Line, Phalen and Hazel Park Sewerage systems. Contr. B. $275,000. Former bids rejected. C. M. Shepard, city engr. Noted Dec. 4.

Tex., Mission—Jan. 22, by Ewing & Congdon, city engrs., 10 mi. 6- to 15-in. sanitary sewers and disposal plant, consisting of Imhoff tank and sprinkling filter, for city $60,000.

Okla., Pittsburg—Feb. 1, by City Clerk, 25,600 ft. 6- to 12-in. vitr. clay sewers, etc. in various streets. $27,000. F. R. Drew, Pittsburg, and Gant Baker Co., 1116 West Main St., Oklahoma City, engrs. Noted Jan. 8.

Okla., Wetumka—Jan. 21, by C. Hamilton, city clk., extending 20,340 ft. 8- to 15-ft. vitr. clay sewers, etc., in Porter, Washita, Tiger, Okmulgee, Clare and Bensen Sts. $25,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Nov. 13.

California—Jan. 26 by City Trustees of LaVerne and Claremont 19,788 lin. ft. 10, 12 and 15 in. vitr. or concrete main outfall sewer, etc. Black and Veatch, Ferguson Bldg., Los Angeles, engrs.

Calif., Los Angeles—Feb. 2, by Bd. Pub. Wks., Arroyo De La Sacatela storm drainage system covering approximately 16 sq. mi., main portion will be square box section from 9 to 11 ft. wide and 8.5 to 10 ft. high, rein.-con. construction. Noted June 12.

Ont., Hamilton—Jan. 21, by S. H. Kent, city clk., one 500,000 gal. and three 1,500,000 gal. vertical centrifugal sewage pumps. W. L. McFaul, city engr.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., Jan. 12, sewers in Pearson Ave., from Pegno Constr. Co., 380 Freeman Ave., Astoria, $5,134; 154th St., from J. F. Clancy, Inc., 460 Lockwood St., Astoria, $3,770; 116th St., from C. Petracca, 737 Cathleen Court, Brooklyn, $13,502. Noted Jan. 8.

Mich., Detroit—Dept. Pub. Wks., 8,913 ft. 10- to 24-in. vitr. crock sewer in Lateral 4252, from H. Ponterelli, 400 Penobscot Bldg., $29,700. Noted Dec. 25.

Minn., St. Paul—H. W. Austin, city purch. agt., Jan. 6, sewer in Otto Ave., from H. Huebscher, 736 Hamline Ave., $47,950.

Wash., Kelso—See "Streets and Roads."

Calif., Los Angeles — Cement sewer in Central Ave. between Florence and Manchester Sts., from F. L. Dunagan, 233 West 38th Pl., $132,000.

CONTRACTS AWARDED

Mass., Melrose—Concrete trunk sewers in Sects. 1, 2 and 3, East Side, to Anthony Cefalo, 316 Belgrade Ave., Roslindale, $28,803. Engrs. est. $25,000. Noted Dec. 25.

Md., Baltimore—Bd. Awards, sewers in Sewer Dist. H-6-1, Contr. 216, to F. Angelozzi, 238 Albemarle St., $32,072; in certain streets and rights-of-ways in Sewer Contr. 4, to Arundel Co., Knickerbocker Bldg., $10,406. Noted Jan. 1.

Mich., Detroit—Dept. Pub. Wks., to J. and A. Ponterelli, 400 Penobscot Bldg., constructing Lateral 4273 $4,999, Lateral 4274 $800, Lateral 4276 $21,000; to J. Monti, 606 Woodward Ave., Lateral 4282 $1,385, Lateral 4286 $1,220; to J. Brogan & Sons, Detroit, Lateral 4275 $1,493; to J. Diponio Co., 3608 Riopelle St., Lateral 4281 $1,500; to G. Leo, 1762 Puritan Ave. Lateral 4283 $4,705; to Drainage Constr. Co., Detroit, Lateral 4285 $27,000. Noted Dec. 4. and 11.

Wis., Milwaukee — J. H. Fowles, secy. Sewerage Comn., 508 Market St., forced and indorced draft fan equipment for filter and dryer house on Jones Island, to Bayley Mfg. Co., 732 Greenbush St., $12,853. Noted Dec. 4.

Wis., Milwaukee—Bd. Pub. Wks., to W. T. Werner, 675 Hi-Mount Blvd., storm and sanitary sewers in 57th St. $2,770, 58th St. $1,506, and Mineral St. $821; to G. Zimmermann, 3402 Grand Ave., in 4th Ave. $7,336, 6th Ave. $12,056; to Wenzel & Hancock Co., 498 27th St., in 14th St. $1,252, 53rd St., etc. $114,957; to J. B. Forrestal Co., 215 15th St., in Palst Ave. $119,824. Noted Jan. 8.

Sewers (Continued)

Minn., St. Paul — H. W. Austin, city purch. gat., Belt Line-Hazel Park sewerage system, Contr. A, to Northern States Contg. Co., 335 Endicott Bldg., $793,000. Noted Dec. 18.

S. D., Mitchell—For 5,578 lin.ft. 24- to 36-in. clay segment sewer, manholes and catchbasins, to Casy & Savonell, 808 Court St., Sioux City, Ia., $27,929.

Ont., Toronto—York Twp., 40 Jarvis St., to Natl. Contg. Co., 9 Garnock Ave., sewers in Cadorna Ave. $4,600; to J. H. McKnight Constr. Co., 88 St. Davids Ave., in Aldwych Ave. $24,490; to J. Maguire Contg. Co., 196 Spadina Rd., in Sammon Ave. $104,750; to Dept. Pub. Wks., by day labor, Delworth Crescent $3,113, Torrens Ave. $10,746, Butler Ave. $3,106, Woodville Ave. $15,000. Noted Jan. 8.

Waste Disposal

BIDS DESIRED

N. Y., New Dorp (Sta. Staten Island)—Jan. 21, by J. A. Lynch, pres. Richmond Boro., Boro Hall, St. George, constructing building, runway furnaces, and chimney for garbage incinerator, here.

Bridges

PROPOSED WORK

Mass., Boston—City Planning Bd. plans reconstructing Congress St. Bridge. $800,000. F. H. Fay, chn.

Mass., Boston—City plans rebuilding and widening steel and concrete bridge over Boston & Albany R.R. tracks, on Tremont St. at Arlinton Sq. $100,000. J. Carty, Dept. Pub. Wks., engr.

Mass., Boston—City plans bridge over Midland Div. of New York, New Haven & Hartford R.R. tracks, on River St., in Hyde Park Dist. $100,000. Engineer not selected.

Pa., Williamsport — Plans Mulberry St. overhead bridge. $400,000. H. Gilmore, mayor.

North Carolina—State Hy. Dept., Raleigh, made plans rein.-con. bridges and culverts on State Project 284, Wayne Co., $38,000; on State Project 642, Iredell Co., $52,000. C. M. Upham, Raleigh, engr.

Tenn., Loudon — Loudon Co. and State Dept. Hys. & Pub. Wks., Nashville, plans bridge over Tennessee River, here. $300,000. J. G. Creveling, highway comr.

Kan., Emporia—See "Streets and Roads."

Minn., Mendota — See "Streets and Roads."

Texas and Louisiana — Orange Co. (Orange), and State Hy. Dept., Austin, Tex., plans west approach and steel and concrete bridge, also Louisiana Hy. Dept., Baton Rouge, plans approach across Sabine River. $40,000. Engineer not selected. E. S. McGovern, Orange, Tex., judge Orange Co.

Tex., Crockett—See "Streets and Roads."

Tex., Houston—See "Streets and Roads."

Tex., Karnes City — See "Streets and Roads."

Tex., Laredo—See "Streets and Roads."

Tex., Waxahachie—See "Streets and Roads."

Calif., Lompoc — Santa Barbara Co. (Santa Barbara) plans bridge, here. $100,000-$110,000. O. H. O'Neill, Santa Barbara, co. surv.

Calif., Riverside — Plans bridge across Terquesquite Arroyo at Victoria Ave. $100,000-$125,000.

BIDS DESIRED

Pa., Pittsburgh—Dept. Pub. Wks., City County Bldg., reconstructing present bridge over Pennsylvania R.R. tracks at South Highland Ave., to Fort Pitt Bridge Co., Oliver Bldg., $46,720. Engrs. est. $47,000.

Md., Annapolis—Feb. 10, by Comrs. Anne Arundel Co., Court House, concrete and steel bridge on Dorsey-Hanover Rd. and 1 on Dorsey-Harman Rd., 5th Dist. Private plans.

Alabama — Feb. 4, by State Hy. Dept., Montgomery, steel superstructure for two 260 ft. and one 335.8 ft. steel span bridge over Alabama River, at Reeses Ferry, between Montgomery and Prattville. W. S. Keller, highway engr.

Ala., Mobile—Jan. 26, by Alabama State Docks Comn., State Office Bldg., concrete piers and abutments for draw bridge over Three Mile Creek. W. L. Sibert, chn.; adv. E. N.-R. Jan. 15.

Tex., Brenham—See "Streets and Roads."

Tex., Floresville — See "Streets and Roads."

Tex., Hebbronville — See "Streets and Roads."

Ont., Keewatin—Jan. 26, by C. H. Fullerton, ch. engr., Parliament Bldg., Toronto, concrete substructure and steel superstructure of 300 ft. highway bridge across arm of Lake of the Woods, here, for Northern Development Branch, Parliament Bldg., Toronto. $35,000.

BIDS RECEIVED

O., Ashtabula Harbor—Bd. Comrs. Ashtabula Co., Court House, Jefferson, concrete substructure for a 200 ft. bridge, 36 ft., over Ashtabula River at Bridge St., from Amer. Constr. Co., Marion Bldg., Cleveland, $55,000; steel superstructure for same, from Kelly-Atkinson Constr. Co., 189 West Madison St., Chicago, Ill., $125,000. Noted Dec. 4.

Calif., Los Angeles—Bd. Pub. Wks., eight 34 ft. rein.-con. span bridge over Pacific Electric Railway tracks, at State St., from Kinne-Westerhouse, H. W. Hellman Bldg., $46,539.

CONTRACTS AWARDED

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridges and culverts on State Project 223, Duplin Co., to Highway Eng. & Constr. Co., Selbyville, Del., $37,738. Noted Dec. 18.

North Carolina—State Hy. Dept., Raleigh, **(S. P. means State Project)**, to Atlantic Bridge Co., Roanoke, Va., rein.-con. bridges and culverts on S. P. 405-B, Chatham Co. $68,006, S. P. 149, Hertford Co. $59,612, S. P. 353, New Hanover Co. $48,272; to Booz-Boyd & Co., Barium Springs, S. P. 488, Wake Co. $25,195.

Kan., Abilene—See "Streets and Roads."

South Dakota—State Hy. Comn., Pierre, three 140 ft. steel trusses and two 30 ft. I-beam approach spans, on State Aid 113 Lyman and Mellette Counties, to Jahnig & Davis, Britton, $30,977; three 80 ft. pony trusses on State Aid 112, Jones and Mellette Counties, to Standard Bridge Co., 1302 City Natl. Bank Bldg., Omaha, Neb., $19,032, both over White River. Noted Dec. 25 under Vivian.

Missouri—See "Streets and Roads."

Mo., Kansas City — Kansas City Terminal R.R. Co., Union Sta., rein.-con. viaduct, to D. Munro, 716 Adams St. Engrs. est. $135,000.

Tex., Carthage—See "Streets and Roads."

Tex., Henrietta—See "Streets and Roads."

Tex., San Antonio—Structural steel for 1 span 140 ft. steel and concrete bridge across San Antonio River, on Presa St., to Houston Structural Steel Co., Yale and Center Sts., Houston, $34,000; substructure, to McKenzie Constr. Co., Travis Bldg., $23,000. Noted Jan. 8.

Okla., Mangum — State Hy. Dept. Oklahoma City, 8 span 600 ft. steel and concrete bridge, here, Greer Co., 198 tons truss steel, 19,800 lb. reinforcing, etc., to Natl. Constr. Co., Lawton, $41,433. Engrs. est. $44,000.

Wash., Tacoma—Pierce Co., Strauss bascule bridge, steel single leaf, concrete piers, 20 ft. roadway with two 5 ft. sidewalks, timber approaches over Hylebos Waterway, to Hart Constr. Co., 711 Middle Waterway St., $74,974. Engrs. est. $78,000. Noted Dec. 11.

Dams

PROPOSED WORK

Que., St. Rose du Degele—New Brunswick Provincial Government, St. John, N. B., plans building 2 concrete dams to store water of St. John River, here. $4,000,000. E. Michaud, St. John, N. B., engr.

Railways

PROPOSED WORK

North Carolina—H. C. Bemis Lumber Co., Pittsburgh, Pa., plans approximately 10 mi. railway in Blue Ridge Mts. from Topton to Robbinsville, Graham Co. $100,000.

Michigan — Ford Motor Co., Highland Park (Detroit P. O.), had estimates prepared by Detroit Dept. Street Rys., for electric railway lines as follows: 1.16 mi. double track on Wyoming Ave. from Warren to Michigan Aves. $238,565, with interlocker $258,565; 1.97 mi. double track on Livey and Mulkey Aves. from Michigan to Dix Aves., $239,310; 1.53 mi. Schaefer Rd. from West Warren to Michigan Aves. $200,540, with interlockers $234,540; single track on Oakman line from Grand River to Michigan Aves. $89,183, with interlockers $127,183; 1.04 mi. double track on Michigan Ave. from Addison Ave. to Schaefer Rd. $128,160; 2.18 mi. on Schaefer Rd. from Michigan Ave. to Ford glass works $281,860; 0.87 mi. on West Warren Ave. from city limits through Springwells to Oakman line $164,835, with interlocker $189,835; 0.6 mi. on West Warren Ave. from Oakman line to Schaefer Rd. $80,325; 1.34 mi. second track on Oakman line from Michigan to Warren Aves. $58,083, with interlocker $64,083; 2.46 mi. second track on Oakman line from Warren to Grand River Aves. $152,020, with interlocker $157,020. Above lines to be rented to city of Detroit for operation. W. B. Mayo, c/o owner, ch. engr.

Ontario — York Twp., 40 Jarvis St., Toronto, plans rebuilding and double tracking Mt. Dennis Radial line incl. rails, steel poles, cross arms, etc., in Toronto. $450,000. F. B. Goldike, 40 Jarvis St., Toronto, twp. engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Miss., Charleston—Tullatoba D. D., c/o R. Denman, Charleston, making preliminary plans drainage ditches and levees to drain 10,000 acres. H. L. French, Summer, engr.

Wis., Milwaukee — City plans dredging various river and canal channels. $50,000. R. Stoelting, comr. Pub. Wks.

Minn., Fairmont — Martin Co. making plans about 25,200 lin.ft. tile in Judicial Ditch 111. $19,500. E. A. Siemen, Fairmont, engr.

Kan., Emporia—Lyon Co. D. D., c/o W. A. Watman, chn., Emporia, making preliminary plans 7 mi. drainage ditch to drain about 18,000 acres in Neosho and Cottonwood bottoms.

Okla., Cherokee—Alfalfa Co. formed new drainage district to drain this city and 15,000 acres adjacent land. $40,000. Peckham & James, 227 West Grand St., Oklahoma City, engrs.

BIDS DESIRED

N. J., Trenton—Feb. 3, by Bd. Commerce & Navigation, State House, dredging section of inland waterway, to connect Barnegat Bay with Manasquan Inlet. V. Gelineau, dir.; adv. E. N.-R. Jan. 15.

Calif., Long Beach—City Council taking bids 200,000 cu.yd. rock for 2,000 ft. breakwater. C. H. Windham, City Hall, engr. Noted Oct. 23.

BIDS RECEIVED

Calif., Los Angeles—Supervs. Los Angeles Co., Dec. 22, from J. Phillips, 637 Santa Ray Ave., drainage system in East Whittier D. D. 41,865 cu.yd. excav. at $0.40 per cu.yd., 6,750 ft. 8 in. drain tile $1.05, 840 ft. 12 in. drain tile $1.15, 80 ft. 24 in. rein.-con. pipe $3.50, etc.

CONTRACTS AWARDED

N. Y., New York—Commissioner Docks, Pier A, North River, dredging 110,000 cu.yd. between Piers 58 and 62, Contr. 1849, to Columbia Dredging Co., 30 Church St., $22,990. Noted Jan. 8.

Miss., Cleveland—Hushpuckana D. D. of Bolivar, Coahoma and Sunflower Counties, approximately 173,936 cu.yd. excav., portion to G. S. Funk, Shelby, at $0.155 per cu.yd.,

Excavation, Drainage, Irrigation, Levees (Continued)

and portion to P. H. Goehle, Shelby, at $0.1585. This corrects report in Dec. 8 issue.

La., Baton Rouge—Red River, Atchafalaya and Bayou Boeuff Levee Bd., 140,000 cu.yd. levee work from Mill Bayou to Anderson, on Bayou des Glaises, to J. M. Dameron, Baton Rouge, $0.179 per cu.yd.

Streets and Roads

PROPOSED WORK

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, plans highway connecting West Roxbury and Watertown, passing through Newton, over Hammond St., Commonwealth Ave., Cedar and Watertown Sts. J. R. Rablin, 1 Ashburton Pl., Boston, engr.

Mass., Dorchester (Boston, P. O.)—City of Boston plans widening Adams St. here. $700,000. F. H. Fay, chn. City Planning Bd.

Mass., West Roxbury (Boston, P. O.)—City of Boston plans widening Ashland St., from Wilmot St. to Randolph Rd., here, $200,000. F. H. Fay, chn. City Planning Bd.

N. J., Adelphia—Freehold Twp. plans improving 2 mi. section of Adelphia-Elton Rd., Monmouth Co., concrete, here. $40,000. G. W. Conover, Library Bldg., Freehold, twp. clk.

N. J., Jersey City—State Hy. Comn., Trenton, plans first section of approaches across Jersey City Heights, connecting with vehicular tunnel at Provost and 12th Sts., about 1 mi., 50 ft. wide, 22 ft. deep, under all streets. $5,000,000. Project includes steel viaduct. May take bids in March or April. Fred Lavis, 721 Bergen Ave., engr. in charge of construction.

Pa., Altoona—City Council, W. J. Hamor, clk., City Hall, takes bids in February, concrete paving 21,834 sq.yd. various streets. $80,000. H. J. Baum, city engr.

W. Va., Charleston—Plans election $482,000 bonds, for street and sewer improvements. H. L. Campbell, city engr.

W. Va., Morgantown — Monongalia Co. plans election $145,000 bonds for roads in Clinton Dist. A. J. Baritell, co. engr.

W. Va., Moundsville—Marshall Co. election Feb. 10, $100,000 bonds for roads in Washington Dist. A. Purdy, Moundsville, engr.

W. Va., Parkersburg — Plans election $300,000 bonds, paving 24 streets. J. D. Dunbar, Parkersburg, engr.

North Carolina—State Hy. Comn., Raleigh, plans grading and concrete or asphaltic paving 11.14 mi. State Project 642, Iredell Co., $397,000; 13.8 mi. State Project 284, Wayne Co., $447,000. C. M. Upham, Raleigh, engr.

N. C., Asheville—Plans election $600,000 bonds, for street improvements.

N. C., Durham—See "Waterworks."

N. C., Elizabeth City — Pasquotank Co. plans to issue $250,000 bonds, constructing additional highways. J. J. Morris, Weeksville, chn. Bd. Highway Commissioners.

Fla., Tampa—Plans granite curbing and 2½ in. asphalt blocks and vitr. brick paving Lake Ave. $25,000. R. D. Martin, City Hall, engr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 12 mi. Benton-Tennga Rd., 16 ft. J. G. Creveling, highway comr.

Tenn., Copper Hill—Plans election $100,000 bonds for paving various streets.

O., Cleveland — Cuyahoga Co., plans widening 4.5 mi. Center Ridge Rd., $150,000; repairing 10 mi. Wooster Pike, $40,000; paving 3.5 mi. Solon Rd. $245,000, and 2 mi. Wooster Pike $96,000. F. Lander, Court House, engr.

O., Cleveland—Cuyahoga Co. takes bids in summer widening and resurfacing 12 mi. Brecksville Rd. $500,000; widening 4.5 mi. Kinsman Rd. $125,000; brick paving 8 mi. Mayfield Rd. $480,000. F. Lander, Court House, engr.

O., Massillon—Plans asphalt paving East Walnut and Clay Sts. $70,000. C. E. Rice, Massillon, engr.

O., Massillon—Takes bids in spring asphalt paving East Walnut St., $50,000; probably asphalt paving State St., $50,000; improving Maple St. $40,000, Clay St. $40,000, and Dwight St. $30,000. C. E. Rice, Massillon, engr.

O., Niles—Takes bids in spring resurfacing 1 mi. Main St. 40 ft., $40,000, improving 0.75 mi. Park Ave., 30 ft., $25,000, Seneca St. $25,000, 0.75 mi. Walnut St. $25,000, Spring St. $38,000, Olive St. $25,000-$28,000.

O., Salem — Bd. Control takes bids in spring resurfacing 3.25 mi. High St., 40 ft., $35,000; improving Hamkey Ave. $25,000, and Cleveland Ave. $30,000. B. M. French, Salem, engr.

O., Youngstown—Takes bids in spring improving Judson Ave. $28,000, Mary Ave. $50,000, Glenwood Ave. $35,000, and Bryson Ave. $38,000. G. Turner, city engr.

O., Youngstown—Mahoning Co. plans 2.5 mi. new road from Boardman-Poland Rd. to Woodworth Rd. $100,000.

Mich., Ferndale—Plans paving 27 streets, 40,000 sq.yd. one course 7 and 8 in. concrete. $150,000. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Wis., Tomahawk — F. Therter, mayor, plans rein-con. paving and 3,000 lin.ft. 20 in. storm sewers, etc., in approximately 9 blocks Tomahawk Ave., Main and 4th Sts. $25,000. W. J. Kirchoffer, engr. Noted Dec. 11.

Ia., Davenport—Scott Co. plans concrete surfacing 6.5 mi. Division St. and Davenport-Princeton Rd. J. M. Malloy, Davenport, co. engr.

Ia., Maquoketa — Takes new bids in March, grading, hard-surfacing, etc., approximately 20,500 sq.yd. various streets. $50,000. J. G. Thorne, Clinton, engr. Noted Jan. 1.

> ***From New Orleans***
>
> **"Building permits amounting to $40,000,000 were issued in 1924, and a large proportion of this work will be done in 1925."**
>
> ***Construction News Correspondent***

Minn., New Ulm—Brown Co. plans to issue $250,000 bonds, constructing Trunk Highway 7. O. M. Robertson, New Ulm, engr.

Minn., St. Paul—Ramsey Co., making plans concrete paving about 1 mi. Wildwood Rd. between east co. line and Wildwood. $35,000. P. N. Coates, 900 Guardian Life Bldg., engr.

Minn., Two Harbors—Plans paving about 7 blocks Maple St. $25,000. E. Carlson, city clk.

Minn., Mendota—Hennepin (Minneapolis) and Dakota Co. (Hastings) plan paving and bridge work on approaches to bridge (now under construction) over Minnesota River, here. $325,000. W. H. Wheeler, 1112 Metropolitan Life Bldg., Minneapolis, engr.

Minn., Red Wing—Goodhue Co. plans election $500,000 bonds, for road construction. C. H. Meyer, co. aud.

Minn., St. Paul—Plans asphaltic concrete paving Osceola Ave. $30,000. G. M. Shepard, city engr.

Kan., Emporia—Lyon Co. plans gravel surfacing 7 mi. road, also constructing steel and concrete bridge. $55,000.

Kan., Garden City—Finney Co. making preliminary plans grading and sand clay surfacing 15.836 mi. Federal Aid Project 248-C, D and E, 18 ft. B. S. Allen, Garden City, engr.

Kan., Kansas City—Wyandotte Co. plans concrete surfacing 1.249 mi. various roads, 18 ft. O. K. Williams, co. engr.

Kan., Seneca—Nemaha Co. making preliminary plans grading, bridging, etc. 7.437 mi. Federal Aid Project 225-B, 28 ft. E. C. L. Wagner, 608 Kemper Bldg., Kansas City, Mo., consult. engr.

Kan., St. Johns—Stafford Co. making preliminary plans grading and sand clay surfacing 10.003 mi. Federal Aid Project 302-A and B also Central Highway, 18 ft.

Mo., St. Louis—Streets and Sewer Constr. Div., Bd. Pub. Serv., made plans constructing 44 mi. streets $4,242,000, 156 alleys $550,000. W. W. Horner, ch. engr.

Ark., Little Rock—Making preliminary plans concrete and gravel surfacing, Main, T, and other streets, in Country Club Dist., Paving Dist. 409. $50,000. M. F. Lawing, 4618 T St., secy.

Tex., Crockett—Houston Co. making plans grading and bridging 6.75 mi. State Highway 19, 26 ft. $42,500. F. J. Von Zuben, co. engr.

Tex., Houston—Harris Co. making plans grading, bridging also constructing railroad underpass on 6.53 mi. State Highway 2, 20 ft. $254,000. Howe & Wise, 1st Natl. Bank Bldg., engrs.

Tex., Karnes City—Karnes Co. election soon $5,000,000 bonds improving various roads. Engineer not announced.

Tex., Karnes City—Karnes Co. takes bids after Jan. 26, grading and bridging 9.05 mi. State Highway 16, 18 ft. $60,000. O. N. Powell, Karnes City, engr. Noted Oct. 16.

Tex., Laredo—Webb Co. takes bids after Jan. 20, grading and bridging, etc. 10.78 mi. Federal Aid Project 436. $82,000. T. E. Huffman, Pirie Bldg., Laredo, engr.

Tex., Morton—Cochran Co. plans grading highways radiating from here. $60,000. Address County Commissioners.

Tex., San Antonio—Making plans widening and paving 4 blocks Bonham St., from 33 to 47 ft. $30,000. I. Ewig, City Hall, engr.

Tex., Sinton—San Patricio Co. takes bids after Jan. 19, shell surfacing 6.38 mi. State Highway 57, Federal Aid Project 377-B, 18 ft. $75,000. F. M. Percival, Sinton, engr.

Tex., Smithville—Made plans bituilthic (or its equal) on rock surfacing Main St. from Missouri, Kansas & Texas Ry. station to Colorado River. $75,000. Address City Engineer.

Tex., Sonora—Sutton Co. takes bids after Jan. 19, gravel surfacing 29.95 mi. State Highway 27, Federal Aid Project 425, A, B and C, 16 ft. $296,329. H. P. Stockton, Jr., Sonora, engr.

Tex., Waxahachie—Ellis Co. making plans grading, bituminous macadam surfacing and bridging 11.86 mi. State Highway 34, 18 ft. $407,600. H. R. Hilland, Jr., co. engr.

Okla., Cordell—Plans grading and paving 10 blocks Main, Washita and Kiowa Sts., 56 ft. $75,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr.

Okla., Norman—Soon takes bids grading, hard surfacing, etc. 15 blocks various streets. F. Cobb, City Hall, engr.

Okla., Oklahoma City — Oklahoma Co. made surveys grading and vertical fibre brick surfacing 54,000 sq.yd. Edmund-Guthrie Rd., $175,000; grading and concrete surfacing 53,700 sq.yd. Choctaw-County line Rd., $36,000. R. S. James, Court House, engr.

Okla., Sapulpa—Plans grading, curbing and concrete surfacing 8,150 sq.yd. Dist. 79, $28,800. F. E. Lawrence, Sapulpa, engr.

Okla., Shawnee — Making preliminary plans grading and hard-surfacing etc. approximately 13,000 sq.yd. various streets. F. D. Brown, Shawnee, engr.

Okla., Shidler—Plans grading, curbing and vertical fibre brick surfacing 8,500 sq.yd. Cosden Ave. $53,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Weatherford—Making preliminary plans grading and concrete surfacing 8 blocks Bway. and Custer St., 30 ft. $35,000. Engineer not selected.

Calif., Chico—Making plans paving approximately 30 blocks various streets. R. Witt, city engr.

Calif., Oakland—Made plans improving East 14th St. between 50th Ave. and city boundary line, 1,049,184 sq.ft. grading, 1,014,959 sq.ft. 2 in. Warrenite paving on 6 in. concrete, etc. $550,000. W. W. Harmon, city engr.

Calif., Salinas—Monterey Co. appropriated $25,000, grading and graveling portion of San Lucas-Coalinga Highway. H. Cozzens, Salinas, co. surv.

Streets and Roads (Continued)

Calif., San Mateo—Made plans improving portions of Edgewood and Glendale Rds., etc., 22,000 sq.ft. 1.5 in. Topeka on 4 in. concrete paving, 1,050 lin.ft. concrete curb, 1,000 cu.yd. excav., 675 lin.ft. 4 and 6 in. vitr. sewers, etc. C. L. Dimmitt, city engr.

Calif., Santa Barbara — Santa Barbara Co. plans constructing 10 mi. roadway from Lompoc to Harris station. $100,000 or more. O. H. O'Neill, co. surv.

Ontario — Dept. Provincial Highways, Toronto, plans completing 75 mi. Windsor-Montreal Highway, asphalt and concrete. $2,500,000. G. Hogarth, 110 University Ave., Toronto, ch. engr.

Ont., Toronto—Soon takes bids concrete sidewalks on Deloraine Ave. $8,819, Melrose Ave. $7,087, West Lynn Ave. $719, Clendenan Ave. $607; concrete curbing Hanson Rd. $407; concrete paving Roselawn Ave. $5,767; asphalt paving Laplante Ave. $8,269, Sheridan Ave. $14,485. R. C. Harris, city engr.

Ont., Toronto — Plans concrete paving, curbing and guttering lane at Huron St. $3,573; concrete sidewalks on Brock Ave. and Connolly St. $1,436; grading Lawrence Ave. $42,500, and lane at St. Clarens Ave. $17,650. R. C. Harris, city engr.

Ont., St. Thomas—Plans asphalt paving St. George St. $32,000. W. C. Miller, city engr.

BIDS DESIRED

Massachusetts—Jan. 27, by Dept. Pub. Wks., Div. Highways, rein.-con. paving 17,724 ft. highway in Lenox and Lee, 18 ft. $150,000. W. F. Williams, comr.

N. Y., Long Island City—Jan. 19, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and sidewalks on Cypress Hills Rd., Anable, Roosevelt and Suwanee Aves.; grading and paving 91st Ave.

Pa., Phila.—Jan. 19, by Bureau Hys., Dept. Pub. Wks., grading (Schedule A) 3,204 cu.yd. Clearview St.; asphalt paving (Schedule B) 589 sq.yd. Buckius St., 6,747 sq.yd. Cleveland, Colorado, Pollock, 17th and 18th Sts., 4616 sq.yd. Grays and 79th Sts., 3,883 sq.yd. Haworth and Pratt Sts., 323 sq.yd. Hope St., 1,290 sq.yd. Magnolia St., 943 sq.yd. McMahon St., 804 sq.yd. 21st St.; country road improving (Schedule C) 2,190 lin.ft. 2 ft. 6 in. concrete gutter on Springfield St.; asphalt repaving (Schedule D) 2,450 sq.yd. Frankford St., 1,195 sq.yd. Indiana St., 5,040 sq.yd. Spruce St., 4,565 sq.yd. 22nd St. G. H. Biles, dir. Pub. Wks

N. C., Robersonville—Jan. 25, by Town Bd., grading, curbing, guttering, sidewalks, sewers and paving various streets. $30,000 plus. R. L. Smith, city clk. Noted Jan. 8.

Fla., Tampa—Jan. 20, by City Comn., W. E. Duncan, clk., 2½ in. asphalt blocks 8-in. rock paving 9,950 sq.yd. 21st and 12th Sts. $30,000. R. D. Martin, City Hall, engr.

Minn., St. Paul—Jan. 27, by H. W. Austin, city purch. agt., paving Palace and Minnehaha Sts., and Hampden and White Bear Aves. C. M. Shepard, city engr.

Kan., Topeka—Feb. 5, by Clerk Shawnee Co., grading and concrete paving 0.384 mi. Federal Aid Project 106-C. A. C. Lagerwall, Topeka, co. engr.

Tex., Floresville—Feb. 2, by C. B. Stevenson, judge Wilson Co., grading, gravel on crushed rock surfacing, 9.43 mi. State Highway 81, Federal Aid Project 440-B, 16 and 18 ft., $184,456; grading, surfacing with 8 in. gravel and 4 in. waterbound macadam base with 1 in. rock asphalt topping alternate on 1 in. Amesite, 12.12 mi. State Highway 81, Federal Aid Project 440-A, 18 ft., $223,035; grading and bituminous on macadam surfacing 11.06 mi. State Highway 81, Federal Aid Project 440-C, 18 ft., $230,622, 14.52 mi. State Highway 16, Federal Aid Project 434-A, 18 and 20 ft., $389,172. F. E. Hess, Box 272, co. engr. Former bids rejected. Noted Dec. 18.

Tex., Hebbronville—Feb. 1, by Jim Hogg Co., grading, caliche surfacing and bridging 10 mi. State Highway 12, Federal Aid Project 125-A and B, 18 ft. $75,000. E. J. Foster, 201 Valdez Bldg., Laredo, engr.

Tex., Waco—E. E. McAdams, city mgr., taking bids asphalt concrete paving 22 blocks Colcord, 17th, Basque, 11th and Columbus Sts., 40 ft. $65,000. V. G. Koch, city engr.

Okla., Oklahoma City—Jan. 20, by M. Peshek, Jr., city clk., grading, curbing and sheet asphalt surfacing 5,100 sq.yd. Lake Ave. and Prospect Aves. $30,000. B. M. Hart, City Hall, engr.

Okla., Wetumka—Jan. 28, by C. N. Hamilton, city clk., grading and vitr. brick surfacing, etc. 3,500 sq.yd. Canadian and Frisco Sts. $26,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Jan. 8.

Okla., Wewoka — Jan. 19, by D. R. Frazer, city clk., grading and vertical fibre brick surfacing 29,600 sq.yd. Dist. 4. $145,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Jan. 8.

Arizona—Jan. 26, by W. C. Lebvre, state engr., Phoenix, improving Prescott-Phoenix Highway, Federal Aid Project No. 72-B, 116,592 cu.yd. roadway excav., 46,468 cu. yd. roadway borrow, 2,200 cu.yd. structural excav., 600 cu.yd. ditches and changes, 106,000 sta.yds. overhaul, 2,000 cu.yd. surfacing, 1,890 cu.yd. cement rubble masonry, 2,600 lin.ft. cement pipe, 77,000 lbs. reinforcing, etc., for State Hy. Dept.

BIDS RECEIVED

Kan., Paola—Miami Co., **(e. e. means engrs. est.)**, from Maney Bros., Empire Bldg., Oklahoma City, grading, etc., 8.8 mi. Federal Aid Project 289-A, $74,926, e. e. $84,478, 5.77 mi. Federal Aid Project 293-A, $28,952, e. e. $32,332, and 8.2 mi. Federal Aid Project 213-A, $37,267, e. e. $44,157; from Tibbets & Tibbets, Olathe, Federal Aid Project 288-A, $54,182, e. e. $59,019. Noted Dec. 4 and 11.

Okla., Ponca City—Grading, paving, etc., 9 blocks Chestnut Ave. Dist. 49, 30 ft., from R. H. Baldwin, Ponca City, F brick, $50,190, C brick, $48,270. Noted Oct. 30.

Calif., Los Angeles—Los Angeles Co. improving Inglewood Ave. from Pine to Bellevue Aves., Impvt. 149, 8,508 cu.yd. excav., 28,103 sq.yd. shaping, 10,311 sq.yd. curbing, 10,622 sq.ft. gutter, 49,520 sq.ft. sidewalks, 28,103 sq.yd. each 2 in. and 3 in. Willite surface, and 108th St. from Main St. to east boundary of city, Impvt. 229, 2,294 cu.yd. excav., 11,882 sq.yd. shaping, 11,143 sq.ft. gutter, 11,862 sq.yd. 1.5 in. National top on asphaltic concrete, from G. R. Curtis, 2440 East 26th St., $93,765 and $35,837 respectively; improving Clara St. between Wright and Perry Rds., 3,203 cu. yd. excav., 20,465 sq.yd. each shaping, and concrete paving, 17,892 ft. shoulders, etc., from Pioneer Transfer Co., Calexico, $38,850. Noted Dec. 18.

Calif., Seal Beach—Grading, 6 in. concrete paving with Topeka surface and curbing portions of 5th, 6th, 7th Sts., etc., from Griffith Co., Railway Bldg., Los Angeles, $35,535. Noted Oct. 2.

Calif., Stockton—Supervs. San Joaquin Co., Dec. 30, improving Boberg Rd., 5,000 cu.yd. grading, 9,550 tons base rock, 2,930 tons top rock, 2,930 tons top rock, 1,350 tons screenings or pea gravel, 1,220 bbls. asphaltic oil, from I. H. Cupps, 136 St. Rcses Ave., San Francisco, $35,284.

CONTRACTS AWARDED

Mass., Brookline — F. A. Corbett, 148 Sutherland Rd., will develop land for building purposes, and construct street from Dean Rd. to Tappen St., between Aspinwall and Fisher Hills, by day labor. To exceed $25,000. Private plans.

N. Y., Brooklyn—E. Riegelmann, Boro pres., Boro Hall, grading, curbing and flagging Kings Highway, to A. E. Castle, Inc., 3313 Tilden Ave., $235,162. Noted Jan. 8.

N. Y., New York—H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., granite block repaving Park Ave. E., to J. Meehan & Sons, 74 Cortlandt St., $18,084. Noted Jan. 8.

Pa., Mt. Lebanon—Mt. Lebanon Twp.,—general contract sub-grading, curbing and paving Colonial Dr., Shaffer St., Arden and Beverly Rds., Pauline and Overlook Aves., to Diulus Benintend Co., West Liberty Ave., Pittsburgh, $85,000.

W. Va., Huntington—Brick paving 1 mi. Ritter Blvd., to Hatfield Constr Co., 418½ 10th Ave., $80,000.

W. Va., Huntington—Putnam Co., grading 5 mi. River Rd. from Buffalo to Mason Co. line, 18 ft., to J. E. Doyle, 432 8th Ave., $25,000.

North Carolina—State Hy. Comn., Raleigh, **(S. P. means State Project)**, to Dicus Bros., Waynesville, grading 9.8 mi. S. P. 941, Haywood Co. $113,426, 6.8 mi. S. P. 982, Swain Co. $53,120, grading and waterbound macadam surfacing 7 mi. S. P. 835, Henderson Co. $138,975; to P. R. Ashby & Co., Raleigh, grading and asphalt paving 5 mi. S. P. 648-B, Lincoln Co. $106,[illegible] 8.8 mi. S. P. 646-B, Lincoln Co. $194,[illegible] to Ziegler & Dalton, Junction City, Kan., grading and concrete paving 3.41 mi. S. P. 537-B, Guilford Co., $117,589; to C. G. Kershaw Contg. Co., Birmingham, Ala., grading and top-soiling 3.6 mi. S. P. 441-A, Harnett Co. $30,815; to E. R. James, Havre de Grace, Md., 4.9 mi. S. P. 491, Hertford Co. 551-912, to N. L. Teer, Durham, 15.3 mi. S. P. 136, Halifax Co. $84,975; to W. E. Graham, Mt. Ulla, grading 6.3 mi. S. P. 732, Yadkin Co. $32,745; to J. F. Mulligan Constr. Co., North Wilkesboro, 7.6 mi. S. P. 353, New Hanover Co., $51,496, to C. B. Foster, Greensboro, 5.42 mi. S. P. 488, Wake Co. $25,703.

North Carolina—State Hy. Comn., Raleigh, grading and sand-asphalt paving 15.48 mi. State Project 223, Duplin Co., to Highway Eng. & Constr. Co., Selbyville, Del., $335,074. Noted Dec. 11.

Fla., Tampa—Hillsborough Co., sheet asphalt on rock surfacing 1 mi. various streets in Beach Park, to E. H. Treves, 602 East Francis Ave., $45,000.

Miss., Holly Springs—Marshall Co., grading, gravel surfacing and bridging 8.374 mi. Federal Aid Project 57-A, to Nixon & Phillips, New Albany, $96,777. Noted Dec. 18.

O., Cuyahoga Falls — Improving 1 mi. West Broad St., 36 ft., to T. E. McShaffrey Co., 173 South Forge St., Akron. Engrs. est. $100,000. Noted Dec. 18.

Mich., Detroit—To Cooke Asphalt Paving Co., 1260 Penobscot Bldg., sheet asphalt paving 8,600 sq.yd. Adeline Ave., $41,307; to Detroit Asphalt Paving Co., 909 Free Press Bldg., 2,790 sq.yd. Barlow Ave. $13,414, 2,560 sq.yd. Marlborough Ave. $12,581; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $1,080 sq.yd. Tyler Ave., $5,845; to Davis & Crowe, 400 Penobscot Bldg., 3,100 sq.yd. Montana Ave. $10,895. Noted Dec. 25.

Ill., Altmont—Improving Paving Dist. 1, 13,734 cu.yd. excav., 38,361 sq.yd. 8 in. concrete, 23,417 ft. concrete curb, etc., to Cole & Fanber, Marion, $110,600. Noted Jan. 8.

Ill., Galesburg—Grading, surfacing, etc., 11 blocks South Pearl St., 12,660 sq.yd. vitr. brick on 8 in. concrete, 8,910 ft. combined curb and gutter, 7,600 cu.yd. excav., to H. H. Gunther, 600 East Main St., $49,810, engrs. est. $49,962; 3 blocks Brooks St., 3,446 sq.yd. vitr. brick on concrete, 2,365 ft. combined curb and gutter, 1,500 cu.yd. excav., and 2 blocks East Fremont St. and Florence Ave., 2,326 cu.yd. vitr. brick on 4 in. concrete, 1,750 ft. combined curb and gutter, 875 cu.yd. excav., to Graham-King Constr. Co., 550 South Cedar St., $13,762 and $9,438 respectively, engrs. ests. $13,872 and $9,511 respectively. Noted Jan. 1.

Ia., Bedford—Grading and brick surfacing 15 blocks various streets, to J. F. McLaughlin & Sons, Mankato, Minn.

Ia., Davenport — Grading and concrete paving 103,774 sq.yd. Davenport Rd., Federal Aid Project 221, to Central Eng. Co., 809 Putnam Bldg., $259,161.

Kan., Abilene—Dickinson Co., improving 7.045 mi. Federal Aid Project 196-A, grading and culverts, to Rexroad & Judy, Salina, $35,210; 2 bridges, to Pinnell & Medis, Topeka, $14,407. Noted Dec. 11.

Kan., Arkansas City—Cowley Co., grading and concrete paving ½ mi. West Kansas Ave., to Stanton & Wallace, Arkansas City, $25,543.

Kan., Atchison—Atchison Co., grading and concrete surfacing, 101,883 yd. Federal Aid Projects 100A and 112, to J. Stanton, Leavenworth, $265,961. Noted Jan. 8.

Kan., Eldorado—Butler Co., bituminous filled brick surfacing Federal Aid Project 205-D, to Thogmartin & Sons, Ft. Scott, $80,766. Noted Jan. 1.

Kan., Eldorado—Butler Co., bituminous filled brick surfacing Federal Aid Project 205, Sects. A, B and C, to Thogmartin & Sons, Ft. Scott, Kan., $68,198, $64,748 and $83,468 respectively. Noted Dec. 11.

Kan., Emporia—Lyon Co., grading, etc. 8.96 mi. Federal Aid Project 260-B, 18 ft., to E. S. McCandless, 216 Tyler St., Topeka, $35,597. Noted Dec. 25.

Kan., Iola—Allen Co., bituminous concrete resurfacing Federal Aid Project 21, to Fry Bros., Iola, $35,056.

Kan., Lyndon—Osage Co., grading, concrete surfacing, etc., Federal Aid Project 266-B, to M. N. Penny, Ponca City, Okla., $85,857. Noted Nov. 27.

Streets and Roads (Continued)

Kan., Lyndon—Clerk Osage Co., grading, etc., Federal Aid Project 264-D, to S. W. Poor, Topeka, $29,333, Federal Aid Project 264-A, to A. L. Cook, Ottawa, $25,-[illegible] culverts on same road, to Dryden & Marshall, Lyndon, $10,840; grading, concrete surfacing, etc., Federal Aid Project 264-E, and Federal Aid Project 264-B, to M. R. Amerman, 248 North Market St., Wichita, $28,633 and $41,597 respectively. Noted Nov. 27 and Dec. 18.

Kan., Olathe—Johnson Co., vitr. brick surfacing 4.334 mi. Federal Aid Project 246-B, 18 ft., to Cook & Stucker, Leavenworth, $156,008. Noted Dec. 18.

Kan., Topeka—Shawnee Co., grading and concrete paving 21,866 sq.yd. Highland Park Rd., to F. Luttjohann, 2101 Kansas St., $82,541. Noted Dec. 11.

South Dakota—State Hy. Comn., Pierre, (F. A. P. means Federal Aid Project and S. A. P. means State Aid Project) to R. R. Wiley, Summit, graveling 21,429 cu.yd. F. A. P. 141 Hughes Co. $20,453, 13,483 cu.yd. F. A. P. 190 A, Gregory Co. $24,981; to H. Pickus Constr. Co., 309 Mass Bldg., Sioux City, Ia. 33,630 cu.yd. F. A. P. 177A, Pennington Co., $38,322, 17,063 cu.yd. F. A. P. 118B and 165 B, Lyman Co. $89,561 with $5,000 deduction, 7,836 cu.yd. F. A. P. 185 A, Jones Co. $50,058; to Wagner & Erling Co., Sioux Falls, 18,026 cu.yd. F. A. P. 176, Kingsbury Co. $17,596, 15,183 cu.yd. F. A. P. 170 A, Brookings and Kingsbury Counties, $33,643, 21,041 cu.yd. F. A. P. 170 D, Minnehaha Co. $17,615, 36,873 cu.yd. S. A. P. 11 and 38, Pennington Co. $62,626; to I. R. Reber, Marshall, Minn., 20,469 cu.yd. F. A. P. 175 Hand Co. $24,299, to S. S. Roberts, Flandreau, 19,534 cu.yd. F. A. P. 170 B, Lake Co., $16,749, to Western Bridge Constr. Co., 748 Peters Trust Bldg., Omaha, Neb., 22,342 cu.yd. F. A. P. 185 D, Jackson Co., $39,362. Noted Dec. 18 and 25.

Missouri—State Hy. Dept., Jefferson City, to J. Stanton, Leavenworth, Kan., grading and 18 ft. concrete surfacing 4.374 mi. St. Joseph-Hannibal Rd., Marion Co. $61,786, 5.766 mi. St. Joseph-Hannibal Rd., Ralls Co. $135,929; to Talbert Bros., Fordland, grading 7.31 mi. road from Salem north and south, Dent Co., $43,751; to F. Kersting Co., Jefferson City, 16 ft. gravel surfacing 5.839 mi. road from Montgomery City north and south, Montgomery Co. $16,999; to J. H. Stephens, Mansfield, 12 ft. gravel surfacing 3.073 mi. Jefferson City-Tinn Creek Rd., Camden Co. $11,710, 4.999 mi. Jefferson City-Tinn Creek Rd., Cole Co. $16,860; to Kiefner & Geile, Perryville, 16 ft. gravel surfacing 1.163 mi. Bismarck-Elvins Rd., St. Francois Co. $5,148, 2.838 mi. Jefferson City-Tinn Creek Rd., Miller Co. $8,931; to L. A. Kerr, Ozark, 16 ft. chat surfacing 4.116 mi. road from Aurora east and west, $33,825; to Summerfield-Jones Co., Billings, 30 ft. grading 3.875 mi. road from Ava east and west, Douglas Co. $41,769, two 40 ft. rein.-con. deck girder spans, etc., over Beaver Creek, Douglas Co. $5,036; to Cook-O'Brien Constr. Co., 305 Railway Exch. Bldg., Kansas City, 30 ft. grading 10.64 mi. St. Joseph-Kansas City Rd., Platte Co. $89,-699, three 20 ft. rein.-con. slab spans, etc., over Owl Creek, Platte Co. $4,518; to J. S. Chaney, Bronson, 30 ft. grading 8.383 mi. Licking-Rolla Rd., Texas Co. $45,462, two 10 ft. rein.-con. slab spans, etc., over Dry Run Creek, $2,322, and three 12 ft. rein.-con. slab spans, etc., over Licking Creek, $3,015, both Texas Co. Noted Jan. 8.

Tex., Bonham—Fannin Co., to J. C. Field & Co., Denison, improving 0.98 mi. State Highway 5, Federal Aid Project 464-B, 137.9 cu.yd. concrete $20 per sq.yd., 5,233 cu.yd. roadway excav. $0.25, 10,831 cu.yd. borrow $0.20, 10,356 sq.yd. concrete pavement $2.53, etc., total $35,921. Engrs. est. $37,500. Noted Oct. 9.

Tex., Brenham—Washington Co., grading and bridging Greenvine Rd., to Womack Constr. Co., Sherman, $30,604. Engrs. est. $33,000. Noted Jan. 8.

Tex., Carthage—Panola Co., grading and bridging 8.47 mi. State Highway 64, State Aid Project 558, and 6.77 mi. State Highway 8, Federal Aid Project 458, both 26 ft., to Tibbetts Constr. Co., Mineral Wells, $118,988 and $74,152 respectively, engrs. ests. $130,000 and $79,800 respectively, 14.7 mi. State Highway 64, Federal Aid Project 456-A, 26 ft., to J. S. Moore & Sons, Lufkin, $61,182, engrs. est. $69,400; grading, gravel surfacing, etc., 9.28 mi. State Highway 43-A, State Aid Project 502, 16 ft., to Belton & Latimer, Garrison, $49,757, engrs. est. $58,-000. Noted Dec. 4.

Tex., Henrietta—Clay Co., grading and bridging 9.25 mi. State Highway 50, Federal Aid Project 449-A, 26 ft., to J. M. Purvis, 112½ West 9th St., Ft. Worth, $66,818. Engrs. est. $104,014.

Tex., Houston—Bitulithic concrete paving Hills St. from Odin to Bridge Sts., to Texas Willite Road Constr. Co., 1205 Capitol Ave., Houston, $74,645. Engrs. est. $75,000.

Tex., San Benito—J. S. Brown, mayor, hard surfacing, concrete curbing and guttering 3 mi. Travis and Bowie Aves., Sam Houston, Reagan, Crockett, Dick, Dowling, Adele, Heywood, Hicks and Powers Sts., to Harris, Spaulding & Ranney, 738 Patterson St., San Antonio, approximately $240,000. Engrs. est. $225,000. Noted Jan. 8.

Tex., Tyler—Smith Co. will gravel surface 16.33 mi. State Highway 64, Federal Aid Project 423-A, 16 ft., by day labor. $157,500. D. K. Caldwell, Tyler, engr.

Oklahoma—State Hy. Dept., Oklahoma City, grading and gravel surfacing 3.946 mi. Watonga Rd., State Aid Project 29-A and B, 7,191 cu.yd. gravel, 39,696 cu.yd. excav., 2,985 cu.yd. borrow, 13,638 cu.yd. overhaul, 76,621 lb., reinforcing, etc., to T. C. Ottinger, Hinton, $37,369. Engrs. est. $40,000.

Okla., Fairfax—Improving 5th, Elm, Ash, Park and McKinley Sts., 13,600 sq.yd. vertical fibre brick, 5,300 cu.yd. earth and 110 cu.yd. rock excav., 8,600 ft. each concrete curb and gutter, to L. R. Moran, Box 622, Okmulgee, $79,857. Engrs. est. $81,118. Noted Dec. 25.

Okla., Wetumka—Grading and surfacing 4 blocks Alabama St., 5,500 sq.yd. vitr. brick, 2,900 ft. curbing, 1,900 cu.yd. excav., to L. R. Mason, Box 622, Okmulgee, $27,-265. Engrs. est. $29,300. Noted Jan. 1.

Colorado — State Hy. Dept., Denver, gravel surfacing 16.045 mi. road between Rifle and Grand Valley, Federal Aid Project 261 A, Garfield Co., to Hinman Bros., 3358 Race St., Denver, $132,557.

Wash., Kelso — City Council, grading, curbing and concrete paving 21,740 sq.yd. South 4th St., et al., to Olympic Constr. Co., 1326 North Lake Ave., Seattle, $59,729. Engrs. est. $60,000. Noted Nov. 27.

California—State Hy. Comn., Sacramento, grading and crushed stone or gravel surfacing 10.8 mi. highway between Halfway Creek and Dog Creek, Shasta Co., to Edwards Bros., Pacific Mutual Bldg., Los Angeles, $400,905. Noted Jan. 1.

Calif., Elsinore—Curbing, guttering, sidewalks and 4 and 5 in. Willite paving various streets in residential district to Hall-Johnson Co., 3025 Fowler St., Los Angeles, $103,215. Noted Nov. 13.

Calif., Hawthorne — Improving Prairie Ave., 10,150 lin.ft. grading, 565,016 sq.ft. 2 in. Willite on 4 in. asphaltic concrete surfacing with 4 in. disintegrated granite subbase, 16,856 lin.ft. curb, 23,712 sq.ft. gutters, 29,008 sq.ft. 3 in. sidewalks, 44,612 sq.ft. 4 in. sidewalks, to Oswald Bros., 366 East 58th St., Los Angeles, $181,660.

Calif., Hawthorne — Curbing, guttering, sidewalks and 1.5 in. Willite on 2 in. disintegrated granite and 2.5 in. asphaltic concrete paving New Jersey Ave., to G. H. Oswald, 366 East 58th St., Los Angeles, $37,199.

Calif., Los Angeles—Los Angeles Co. improving Clara St. between Wright and Perry Rds., 3,203 cu.yd. excav., 20,465 sq.yd. shape roadway, 20,455 sq.yd. concrete paving, 17,892 ft. shape shoulders, etc., to Pioneer Transfer Co., Route 8, Box 177, Alhambra, $38,850. Noted Dec. 8.

Calif., Los Angeles—To Los Angeles Paving Co., 2900 Santa Fe Ave., curbing, sidewalks and Topeka paving Oxford Ave. between Beverly Blvd. and 3rd St., $35,915; to Chalmers & Ford, H. W. Hellman Bldg., concrete paving, curbing, sidewalks, etc., on 68th St. between Vermont St. and Normandie Aves., $79,390; to G. H. Oswald, 366 East 58th St., Topeka paving Parthenia St. $22,304, asphalt and concrete paving, curbing and guttering, etc., 41st Dr. $17,695, Warrenite and concrete paving, curbing, sidewalks, etc., on 41st St. $20,668. Noted Jan. 1.

Calif., Los Angeles—To Warren Constr. Co., 2221 East 25th St., improving Alpine St. between North Bway. and Figueroa Sts., grading, $6,930, 34,555 sq.ft. concrete paving $0.20 per sq.ft., 148,956 sq.ft. Warrenite paving $0.26, 4,525 ft. concrete curbs $0.60, 7,074 ft. cement sidewalks $0.20, 7,171 ft. concrete gutters, etc. $0.25; to G. H. Oswald, 366 East 58th St., improving Westgate and Mayfield Aves., Impvt. Dist. 21, grading, $35,500, 1,016,656 sq.ft. Warrenite paving $0.2133, 48,340 ft. concrete curbs $0.45, 233,700 sq.ft. cement sidewalks $0.15, 60,410 sq.ft. concrete gutters $0.19, total $320,672. Vermont Ave. between Manchester Ave. and 165th St., grading, $40,000, 1,728 ft. concrete paving $0.20, 12,425 ft. bituminous base paving $0.09, 984,363 sq.ft. Warrenite paving $0.28, 22,552 lin.ft. concrete curbs $0.56, 29,541 sq.ft. gutters $0.23, total $380,679; to Griffith Co., Railway Bldg., improving Slauson Ave. between 8th Ave. and Wilton Pl., 209,345 sq.ft. Warrenite-bituminous paving, etc., $76,895, and grading, curbing, guttering and Warrenite paving, etc. Bay St., $26,002.

Calif., Stockton—San Joaquin Co. improving Duncan Rd., 8,400 cu.yd. grading, 6,200 tons gravel base course, 1,850 tons crushed rock, 700 bbls. asphalt oil, 850 tons dressing for oil, etc., to Kaiser Paving Co., Amer. Bank Bldg., Oakland, $26,047.

Calif., Watts—Improving Villa, Christian Sts., etc., 2 in. asphalt on 5 in. concrete, 6 in. concrete paving, 2 in. asphaltic concrete on 4 in. concrete, curbs, sidewalks, etc., to G. H. Oswald, 366 East 58th St., Los Angeles, $37,340.

Calif., Watts—To Allied Constr. Co., 459 East 3rd St., Los Angeles, improving Lark St., 121,000 sq.ft. 5 in. concrete paving at $0.19 per sq.ft., 23,120 sq.ft. sidewalks $0.18, 6,450 lin.ft. curb $0.55, etc., total approximately $33,520.

Buildings—Industrial

PROPOSED WORK

Mass., Chelsea — Repair and Service Garage—F. A. Glaser, 152 Pearl St., having plans prepared by S. S. Eisenberg, 46 Cornhill St., Boston, 1 story, 120 x 140 ft., rein.-con. and steel, Pearl St. $75,000.

Mass., Malden—Mill—Cunningham Spice Co., Plymouth Rd., having plans prepared by C. H. Tenney & Co., 200 Devonshire St., Boston, 3 story, 54 x 75 ft., concrete and steel, Linden St. $60,000.

Mass., Watertown — Factory — Jolly Ice Cream Co., Main St., rejected bids 1 and 2 story, brick, Main and Westminster Sts. $40,000. W. H. Haines, 32 Riverview Ave., Waltham, archt. Will readvertise. Noted Dec. 11.

Mass., Winchester—Power House, etc.—See "Buildings—Commercial."

Pa., Phila. — Printing — Security Bank Note Co., 223 Chestnut St., having preliminary plans prepared by Ballinger Co., 12th and Chestnut Sts., 3 story and basement, 130 x 136 ft. printing plant, 55th and Sansom Sts.

W. Va., Huntingdon—Laundry—Powers Bros. Laundry Co. plans 2 story, 90 x 230 ft. laundry, 6th Ave. $150,000. Engineer and architect not selected.

N. C., Charlotte—Storage and Supply—T. Griffith, Charlotte, having plans prepared storage and supply building, 7th St. and Southern Rd. Lockwood, Greene & Co., Charlotte, engrs. Goodyear Tire & Rubber Co., 224 West 1st St., lessee.

N. C., Robbinsville—Mill—H. C Bemis Lumber Co., Pittsburgh, Pa., plans lumber mill, here. To exceed $100,000.

O., Cleveland—Factory—MacDonald Mfg. Co., M. MacDonald, pres., 5015 Wellesley Ave., had plans prepared 1 story, 38 x 60 ft., brick and steel, 5014 Wellesley Ave. $40,000. Private plans.

O., Cleveland — Substation — Cleveland Electric Illuminating Co., Illuminating Bldg., had plans prepared by E. J. Cook, Illuminating Bldg., 1 story and basement, 36 x 150 ft., brick, steel and concrete, Bolivar Rd.

O., East Canton—Plant—Stark Brick Co. plans rebuilding 1 story plant, recently destroyed by fire. $100,000. E. E. Stewart, genl. mgr.

O., Mt. Union (Sta. Alliance)—Printing Plant, etc.—McCaskey Register Co., Alliance, plans brick, steel and concrete printing plant and office building. $300,000. Lockwood, Greene & Co., Hanna Bldg., Cleveland, archts.

Wis., Iron River—Cannery—Iron River Packing Co., c/o D. J. Fitzgerald, 722 Werle Ave., Wausau, having plans prepared 2 story, 40 x 80 ft. cannery, 1 story, 42 x 72 ft. warehouse and 28 x 30 ft. boilerhouse, all brick, plain foundations. $60,000. Private plans.

Buildings—Industrial (Continued)

Wis., Janesville—Plant—Rock Co. had plans prepared refrigeration plant at asylum. $50,000. Rowe, Dillard & Rowe, 127 North Dearborn St., Chicago, Ill., engrs.

Wis., Waupaca — Cannery — Waupaca Pure Food Co., Werle Ave., Wausau, having plans prepared 2 story, 40 x 72 ft. cannery, 1 story, 40 x 60 ft. warehouse, and 24 x 40 ft. boiler house, all brick, plain foundations. $50,000. Private plans.

Mo., Fulton—Power Plant—State Eleemosynary Institute, Jefferson City, plans power plant at State Hospital for Deaf & Dumb, here. $150,000.

Mo., St. Louis — Factory — Mavrakos Candy Co., 4949 Delmar Blvd., having preliminary plans prepared 3 story and basement, 100 x 169 ft., rein.-con. and brick, Delmar and Walton Sts. $150,000.

Mo., St. Louis—Plant—Approved plans for power plant to generate own power, 12th Blvd. and Clark Ave. $1,000,000 bonds voted. Plans also 1 mi. steam line run from proposed power plant to city hospital, etc. W. W. Horner, city engr.

Tex., Big Lake—Plant—Big Lake Oil Co., Big Lake, plans skimming plant, brick and concrete, 3,000 bbl. daily capacity. $250,000. Private plans. L. Smith, pres.

Tex., Dallas—Plant—F. M. Christiansen, 3002 Ross Ave., having plans prepared by Flint & Broad, Melba Theatre Bldg., 2 story and basement, 59 x 110 ft., brick, stone and rein.-con., Leonard St. near Flora St. $45,000.

Tex., Pearsall—Mill—Frio Cotton Oil Mill Co. plans improving present oil mill plant, also plans to purchase engine, seed crusher, etc. $40,000. Private plans.

Okla., Oklahoma City — Plant — New States Ice Co., 2 West 3rd St., had preliminary plans prepared by Ophuls & Hill, 112 West 42nd St., New York City, 1 story, 130 x 140 ft., rein.-con. and brick, plain foundation, Poplar St. $150,000.

Wash., Bellingham — Factory — Utah-Idaho Sugar Co., Vermont Bldg., Salt Lake City, Utah, plans large sugar factory on 40 acre site, near here, and moving Union Gap plant, here. $1,500,000.

Wash., Kirkland—Plant—Henry Fisher Canning Co., Inc., plans rebuilding plant, recently destroyed by fire. $60,000.

Calif., Alhambra—Foundry—California Metal Enameling Co., 2155 East 51st St., Los Angeles, purchased 8 acre site and plans stove and refrigerator foundry buildings.

Calif., Azusa—Plant—Bartlett Nu Products Corp., 265 Garfield St., Pasadena, having plans prepared two 1 story, approximately 50 x 200 ft. beverage manufacturing plant, probably steel. $40,000.

Calif., Holtville—Plant—Imperial Ice & Development Co., plans ice manufacturing plant. $45,000.

Calif., Los Angeles—Factory and Cold Storage Plant—California Crushed Fruit Co., 1601 East 16th St., having plans prepared by C. E. Finkenbinder, 727 Story Bldg., 3 story, 40 x 80 ft., brick and concrete, 16th St. and Long Beach Blvd.

Calif., Los Angeles — Factory — Angeles Furniture Mfg. Co., 931 East Pico St., plans approximately 3 story factory on 600 x 1,000 ft. site, 9th St.

Calif., Orange — Plant — Orange Mutual Citrus Assn., had plans prepared 1 story, approximately 100 x 120 ft. packing plant. $40,000. Private plans.

Calif., Orange—Plant—Central Lemon Growers Assn., c/o E. B. Collier, plans packing plant. $80,000.

Calif., Santa Barbara—Plant—Los Angeles Creamery Co., 1120 Towne Ave., plans creamery plant on 165 x 200 ft. site, Montecito St. To exceed $40,000.

Calif., Yuba City—Plant—Natl. Ice & Cold Storage Co., Postal Telegraph Bldg., San Francisco, plans plant, 15 tons or more daily capacity, Almond St. $50,000.

Ont., London—Plant—Bell Telephone Co. plans extending and improving outside plant, $240,000, also switchboard extensions, $110,000. C. H. Beard, c/o owners, engr.

Ont., Tillsonburg—Regal Oil Corp., 17 Queen St. E., Toronto, plans oil refinery, incl. storage tanks, pumps, etc., concrete and brick, on Dereham-Middleton town line, near here. $100,000-$200,000. W. B. Brooks, pres.

Ont., Toronto—Plant—Imperial Oil Ltd., Imperial Oil Bldg., plans oil handling and storage plant, concrete, brick and steel, Cherry St. $500,000. Private plans.

Ont., Toronto—Factory—E. and S. Currie Ltd., 50 York St., plans 6 story and basement, rein.-con., brick and steel, plain foundation, Spadina Ave. $200,000. Engineer and architect not selected.

BIDS DESIRED

Pa., Carlisle—Machine Shop—Jan. 20, by Lockwood, Greene & Co., engrs., 100 East 42nd St., New York City, 2 story and basement, 81 x 190 ft., and 60 x 100 ft. roller storage and machine shop, rein.-con. and brick, plain foundation, here, for C. H. Masland & Sons, Inc., Carlisle.

O., Youngstown—Mills—Mar. 1, by Carnegie Steel Co., Salt Spring Rd., 3 band and shape mills, McDonald St. $2,000,000.

Wis., Eau Claire — Plant — Drummond Packing Co., Packing House St., taking bids 65 x 72 ft., brick and concrete addition, $40,000. B. K. Gibson Co., 624 South Michigan Ave., Chicago, Ill., engrs.

Tex., McAllen—Power Plant—See "Buildings—Commercial."

Okla., Wetumka — Plant — See "Waterworks."

Calif., Berkeley—Laundry—R. V. Woods, archt., 506 17th St., Oakland, taking bids 1 story and mezzanine, 115 x 145 ft., brick and timber, Grove St., for Manhattan Laundry Co., 1812 Dwight Way. $40,000.

Calif., Los Angeles—Laundry—H. Pierce, archt., Wright-Callendar Bldg., taking bids 1 story, 50 x 150 ft., brick annex, Main St., for Peerless Laundry, 5826 South Main St.

Calif., San Bernardino—Shops—Feb. 2, by State Hy. Comn., Sacramento, 1 story, 60 x 140 ft., corrugated iron maintenance shop, also corrugated iron and timber truck shed, etc., here. R. M. Morton, Sacramento, state highway engr. Noted Aug. 21.

Calif., San Francisco—Factory—H. H. Gutterson, archt., 526 Powell St., taking bids 1 story and basement, rein.-con. factory, for White Truck Co., 1490 Market St. To exceed $40,000.

CONTRACTS AWARDED

Mass., Roxbury (Boston P. O).—Storage—Illinois Glass Co., 148 State St., 1 story, 75 x 285 ft., brick and timber, Leon St., here, to M. C. Tuttle, 862 Park Sq. Bldg., Boston.

Conn., Stamford—Plant—H. E. Verran Co., enlarging present plant 1 story, brick, steel and timber, also constructing 4 story, 77 x 170 ft. with 51 x 194 ft. wing addition, to J. W. Ferguson Co., 152 Market St., Paterson, N. J.

Pa., Phila.—Factory—E. Hubschman & Sons, Inc., Oriana and Willow Sts., 4 story, 62 x 112 ft. with 4 story, 20 x 21 ft. wing addition, also 1 story and basement, 40 x 115 ft. factory, both rein.-con. and brick, plain foundations, to Monaghan & Lasse, 3016 Chestnut St.

Pa., Pittsburgh — Plant — Pittsburgh Transformer Co., Columbus and Preble Sts., general contract 1 story, 120 x 600 ft., brick and steel plant, to Austin Co., Union Trust Bldg. Archts. est. $165,000.

Ala., Calera (Birmingham P. O.)—Plant—Alabama Lime & Stone Corp., Birmingham, lime and by-products plant, here, to Schaffer Eng. Co., House Bldg., Pittsburg, Pa. $800,000.

O., Cleveland—Factory—Reliance Electric Eng. Co., 1088 Ivanhoe Rd., 1 and 2 story, 40 x 162 ft., brick, steel and concrete, 1080 Ivanhoe Rd., to Austin Co., 16112 Euclid Ave. Archts. est. $50,000.

Ill., East St. Louis — Plant — Western Valve Co., Seneca Falls, N. Y., 1 and 2 story, concrete and steel, here, to Wimmer Constr. Co., Victoria Bldg., St. Louis, Mo. Archts. est. $200,000.

Wis., Madison — Plant — Savidusky Dye House, 301 State St., 2 story, 50 x 185 ft., brick, rein.-con. and steel, plain foundation, to Morgan & Morgan, Monroe St.

S. D., Sioux Falls—Plant—J. Morrell & Co., W. H. T. Foster, pres. and genl. mgr., 6 story, 120 x 150 ft., rein.-con., steel and brick plant, general contract, to Sioux Falls Constr. Co., 267 Boyce-Greeley Bldg., about $200,000.

Mo., Kansas City — Bakery — Quality Baker Shop, 1 story, 44 x 80 ft., brick and terra cotta bakery, to Fogel Constr. Co., 613 Reliance Bldg. Archts. est. $50,000.

Tex., Ft. Worth—Factory—William & Dickey Mfg. Co., Jennings Ave., 3 story, 100 x 125 ft., rein.-con. and brick addition, plain foundation, to C. M. Davis Eng. & Constr. Co., W. T. Waggoner Bldg., $60,000.

Calif., Alhambra—Plant—Pasadena Ice Co., 301 North 3rd St., 1 story, 60 x [illegible] ft., ice plant, to Hamm & Grant, Ferguson Bldg., Los Angeles.

Calif., Brawley—Plant—Pure Ice Co., ice manufacturing plant, to H. B. Mason, 3526 West Slauson Ave., Los Angeles. Archts. est. $80,000.

Calif., Calexico—Plant—Pure Ice. Co., ice manufacturing plant, to H. B. Mason, 3526 West Slauson Ave., Los Angeles. Archts. est. $80,000.

Calif., San Diego—Plant—Diamond Ice Co., ice manufacturing plant, to H. B. Mason, 3526 West Slauson Ave., Los Angeles. Archts. est. $85,000-$100,000.

Que., Three Rivers—Mill—International Paper Co., Pershing Bldg., New York City, extending paper mill, here, to Fraser Brace Co., Montreal, $1,000,000 plus percentage basis.

Buildings—Commercial

PROPOSED WORK

N. H., Milford—School—Bd. Selectmen having plans prepared by Mulhall & Holmes, 33 Newbury St., Boston, Mass., 2 story and basement, 70 x 150 ft., brick and stone school. $150,000.

N. H., Salem—Church—St. Joseph's Roman Catholic Church Society, having sketches made by F. J. Untersee, 585 Boylston St., Boston, Mass., 1 and 2 story and basement, brick and granite church. $150,000.

Vt., Forest Dale—School—School Comn., having revised plans prepared by A. J. Smith, Rutland, 2 story and basement, 60 x 100 ft., brick and tile, $150,000. Former bids rejected. Noted Jan. 8.

Mass., Boston—Garage—G. W. Bunnell, 56 Winchester St., Brookline, plans 2 or more story, rein.-con. and steel, 585 Newbury St. $200,000. Engineer and architect not selected.

Mass., Boston -- Garage — State Street Garage, Inc., c/o S. S. Eisenberg, 46 Cornhill St., having plans prepared 6 story and basement, 80 x 100 ft., rein.-con., brick and steel, 200 Cambridge St. $250,000.

Mass., Boston—Hospital—Third Order of St. Francis Seraphic, Dorchester, having plans prepared by E. T. P. Graham, 171 Nerbury St., 3 story and basement, brick and stone hospital, here. $155,000.

Mass., Boston—Office—C. K. Cummings and H. K. Kimball, trustees, c/o C. W. Whittier & Bro. 82 Devonshire St., plan 6 story and basement, 10,000 sq.ft. floor space, Franklin Battery March and Wendall Sts. Engineer and architect not selected.

Mass., Boston—School Bd. Educ. having sketches made by J. J. Driscoll, 6 Beacon St., 2 story and basement, brick and stone, Brimer St. To exceed $150,000.

Mass., Boston—School—Roxbury Latin School, c/o Roxbury Latin School Building Fund, 50 Congress St., having sketches made by Perry, Shaw & Hepburn, 177 State St., 2 story and basement, brick and stone, Spring and Centre Sts. $400,000. Noted Jan. 1.

Mass., Brookline (Boston P. O.)—Apartment—M. Miller, 130 Callender St., Dorchester, having plans prepared by S. S. Levy, 35 Court St., Boston, 3 story and basement, 100 x 120 ft., brick and stone, plain foundation, Winchester St., here, $150,000.

Mass., Cambridge (Boston P. O.)—Business and Administration—Harvard University, having plans prepared by McKim, Mead & White, 101 Park Ave., New York City, group of 13 buildings on site opposite stadium on Brighton side of Charles River. $5,000,000. Noted Aug. 21.

Mass., Fitchburg—Church—Immaculate Conception Church, having sketches made by O. E. Nault, 48 Hamilton St., Worcester, 1 story, brick and stone church. $150,000.

Buildings—Commercial (Continued)

Mass., Greendale — College — Assumption College having plans prepared by O. E. Nault, 48 Hamilton St., Worcester, for College. $150,000.

Mass., Haverhill—Clubhouse—Haverhill Country Club, having plans prepared by H. F. Kellogg, 110 Summer St., Boston, 2 and 3 story, 60 x 150 ft., rein.-con., brick and stucco clubhouse. $150,000.

Mass., Lawrence — School — School Bd. plans 2 story 26 room school, eastern section. $150,000. Engineer and architect not selected.

Mass., Lowell—School and Jail—Roman Catholic Diocese, c/o J. B. O'Connor, plans preparatory school for boys, consisting of remodeling old Middlesex Co. Jail, on hill facing South Common, also developing 6 acres surrounding ground for athletic field, playground, etc. Engineer and architect not selected.

Mass., Melrose—School—A. M. Tibbetts, mayor, plans addition to Lincoln St. School, $150,000. Engineer and architect not selected.

Mass., Melrose—School—City, A. M. Tibbetts, mayor, plans school, Winthrop School Sect. $200,000. Engineer and architect not selected.

Mass., New Bedford—High School—City plans 3 story and basement Junior High School. $1,000,000. Engineer and architect not announced.

Mass., Newton—Police Court and Headquarters—City and Middlesex Co. (Cambridge, Boston, P. O.), plan police court and headquarters building, here. Engineer and architect not selected.

Mass., Pittsfield — Church — Christian Science Benevolent Society, having plans prepared by J. M. Vance, 24 North St., 70 x 100 ft., brick, Wendal St. To exceed $150,000

Mass., Quincy — Home — Eventide Home for Aged People, F. B. and H. L. Rice, trustees, plans home. $350,000. Engineer and architect not selected.

Mass., Quincy (Boston P. O.)—Theater, Store and Office—M. Allen, c/o Tuck & Co., archts., 636 Warren St., Roxbury, having plans prepared 3 story and basement, 80 x 215 ft., brick, Wollaston Sect. $200,000.

Mass., Roxbury (Boston P. O.)—Schoolhouse Dept., Boston, plans addition to Lewis School, here. $300,000. C. R. Greco, 11 Beacon St., Boston, archt.

Mass., Salem—Church—Grace Episcopal Church, c/o Smith & Walker, archts., 80 Boylston St., Boston, having sketches made 1 story and basement church. $150,000.

Mass., Somerville—Fire Station—City, J. M. Webster, mayor, plans fire station, Cutter Sq. $150,000 or more. Engineer and architect not selected.

Mass., Somerville—Municipal Bd. Alderman voted $160,000 bonds for municipal building. Engineer and architect not selected.

Mass., Springfield—Office—Massachusetts Mutual Life Insurance Co., 500 Main St., having plans prepared by Kirkham & Parlett, 25 Harrison Ave., 3 story and basement, 275 x 379 ft. limestone, State St. $3,000,000. Noted Aug. 7.

Mass., West Springfield (Springfield P. O.)—School—Bd. Educ., having plans prepared by Van Pelt & Morris, 126 East 39th St., New York City, 16 room and auditorium, brick. $150,000. Noted June 5.

Mass., Winchester—Hospital—Winchester Hospital, having sketches made by Kendall, Taylor & Co., 142 Berkley St., Boston, 1 and 2 story, rein.-con., brick hospital addition and service building, also revised sketches made for power house and laundry. $150,000. Noted Aug. 31 and Oct. 30.

Conn., Bridgeport — Apartment — W. F. Chatlos, Broad St., Stratford, having plans prepared by J. W. Northrop, 211 State St., 6 story and basement, 80 x 110 ft., brick, steel and stone, plain foundation, Golden Hill. $350,000.

Conn., Hartford—Church—Church of St. Thomas, J. F. Callahan, pastor, West Hartford, plans church, Farmington Ave., here. $300,000. Engineer and architect not selected.

Conn., New Britain—School—Bd. Educ., J. H. Halloran, chn., having plans prepared by W. H. McKay, 87 West Main St., altering and constructing 2 story and basement, 90 x 110 ft., brick and art stone addition to Stanley School. $200,000.

Conn., New Britain—Dormitory—State Bd. Educ., plans dormitory at Normal School, Stanley St., $500,000. Gilbert & Bettelle, 20 Branford Pl., Newark, N. J., archts.

Conn., New Haven—Office and Theater—A. L. Friend, 36 West 44th St., New York City, plans theater and office building College St. $600,000-$700,000. Engineer and architect not announced.

Conn., Waterbury—High School—Notre Dame Convent, South Elm St. near Union St., plans high school for girls. $300,000. Engineer and architect not selected.

N. Y., Brooklyn—Bank—Bay Ridge Savings Bank, 5323 5th Ave., having plans prepared by Koch & Wagner, 32 Court St., 3 story, brick, steel and stone, plain foundation. $300,000.

N. Y., Bronxville—Apartment—Lawrence Investing Co., c/o Walker & Gillette, archts. and engrs., 128 East 37th St., New York City, having plans prepared brick, steel and stone, plain foundation, here. $3,000,000.

N. Y., Buffalo—Business and Office—E. Jellinck, Prudential Bldg., plans business and office building, Main St. To exceed $200,000.

N. Y., Buffalo—Theater—J. M. Howie, Touraine Hotel, Delaware Ave., plans theatre, Delaware Ave. $500,000.

N. Y., New York—Apartment—M. Courland, archt., 366 5th Ave., preparing plans 5 story, 100 x 100 ft., brick, steel and stone, plain foundation, Vermilyea Ave. $200,000. Owners name withheld.

N. Y., New York—Apartment—Twenty West 72nd St. Corp., L. Israelson, pres., c/o H. J. Krapp, archt. and engr., 1650 Bway., having plans prepared brick, steel and stone, plain foundation, 20 West 72nd St. $400,000.

From Birmingham

"From present indications 1925 will be the greatest building year Birmingham has ever known. As regards labor, there are no strikes and no likelihood of strikes in 1925. As a general thing, the free municipal employment agency has more jobs to offer than men and women to fill them."

Construction News Correspondent

N. Y., New York—Apartment—Henry Phipps Estate, c/o Cross & Cross, archts. and engrs., 385 Madison Ave., had plans prepared 13 story, brick, steel and stone, plain foundation, 57th St. $1,700,000.

N. Y., New York — Apartment — Lloyd Builders Co., Inc., c/o H. Hurwitz, archt., 41 West 33rd St., having plans prepared 6 story, 92 x 107 ft., brick, steel and stone, plain foundation, Lafayette and Huntspoint Aves. $325,000.

N. Y., New York—Exchange—New York Telephone Co., 15 Dey St., soon takes bids 3 story, brick, steel and stone, plain foundation, Sherman Ave. $600,000. McKenzie, Voorhies & Gmelin, 342 Madison Ave., archts. and engrs.

N. Y., New York—Hotel—Cornish Arms, c/o W. H. Jackson, archt., 1834 Bway., having plans prepared 12 story, brick, steel and stone, plain foundation, 311 West 23rd St. $650,000.

N. Y., New York—Hotel—Morris White Holding Co., c/o C. B. Meyers, archt. and engr., 31 Union Sq., having plans prepared 15 story, 98 x 140 ft., brick, steel and stone, plain foundation, Lexington Ave. and 37th St. $1,500,000.

N. Y., New York—Hospital—Beekman St. Hospital, 117 Beekman St., having revised plans prepared by A. Mertin, archt. and engr., 34 West 28th St., 7 story addition, brick, steel and stone, plain foundation, 109 Beekman St.

N. Y., New York—Loft—Two Hundred Thirty-Seven Madison Ave. Corp., c/o E. P. Doyle, archt. and engr., 11 John St., having plans prepared 9 story, brick, steel and stone, plain foundation. $325,000.

N. Y., New York — Loft — George-Ted Realty Co., c/o G. and E. Blum, archts. and engrs., 505 5th Ave., having plans prepared 14 story, 90 x 117 ft., brick, steel and stone, plain foundation, 231 West 29th St. $650,000.

N. Y., New York—Loft — Thirty-Seven West 47th St. Corp., c/o W. M. Mason, archt. and engr., 25 West 43rd St., having plans prepared 17 story, 68 x 100 ft., brick, steel and stone, plain foundation, 35 West 47th St. $650,000.

N. Y., New York—Office—Forty-one to Forty-Three Maiden Lane Corp., c/o L. A. Abramson, archt., 48 West 46th St., having plans prepared 14 story, brick, steel and stone, plain foundation, 41 Maiden Lane.

N. J., Atlantic City—Apartment—M. A. Caskaden, having plans prepared by J. V. Mathis, Guarantee Trust Bldg., 5 story and basement, 50 x 85 ft., brick and steel, plain foundation, $175,000.

N. J., Newark—Apartment—Ruderman & Jacobson, c/o R. Botelli, archt. and engr., 207 Market St., having plans prepared 4 story, brick, steel and stone, plain foundation, Clinton Ave. $200,000.

Pa., Phila. — Apartment — Owner, c/o Greenfield & Taube, Fox Bldg., having plans prepared by F. E. Hahn, 629 Chestnut St., and takes bids about April 1, 18 story and basement, 100 x 175 ft., brick and steel, plain foundation, 17th and Locust Sts. $2,500,000.

Pa., Phila.—Bank and Office—Fidelity Trust Co., Broad and Chestnut Sts., having preliminary plans prepared by J. F. Windrim, Commonwealth Bldg., 20 story and basement, 175 x 229 ft., brick, plain foundation, Broad St. between Walnut and Sansom Sts.

Pa., Phila.—Office—Fidelity Mutual Life Insurance Co., 112 North Broad St., having sketches made by Zantzinger, Borie & Medary, Otis Bldg., for office building, 25th St. and Parkway.

Pa., Phila. — Trade School, etc. — Bd. Educ., 19th and Chestnut Sts., plans girls trade and continuation school, 13th and Brandywine Sts. Private plans.

W. Va., Huntington—College and Library—Marshall State College plans college and library. $250,000 and $200,000 respectively. Engineer and architect not selected.

W. Va., Huntington—Hotel—Hotel Frederick, 4th Ave. and 10th St., having plans prepared by R. L. O'Neal, temporary archt., Huntington, 15 story, 150 x 150 ft. hotel. $2,000,000.

N. C., Charlotte—Apartment—O. Barringer, 7 West 8th St., plans large apartment house, North Church St. $200,000.

N. C., Concord—Hotel—Concord Realty Co. plans 8 story and basement hotel. $350,000. Engineer and architect not selected. G. L. Patterson, Concord, pres.

N. C., Hickory—Church—Lutheran Synod of North Carolina plans new church on campus of Lenoir-Rhyne College. $150,000. Address P. J. Bame, pastor.

N. C., Hickory—Hotel—Hickory Hotel Co., c/o Chamber of Commerce, plans hotel. $300,000.

Fla., Palm Beach—Church—Methodist Episcopal Church, c/o Hess & Weeks, archts. 18 East 49th St., New York City, having plans prepared brick and stone church, here. $1,000,000.

Miss., Pass Christian—Hotel—S. L. McGlathery et al., soon take bids 5 story, rein.-con., brick and steel hotel. $450,000. W. C. Keenen, Liverpool, London & Globe Bldg., New Orleans, La., archt. Noted Sept. 11.

Tenn., Dandridge—Jefferson Co. voted $165,000 bonds for new schools at White Pine, New Market, Jefferson City, and here.

O., Canton—Theatre—Cavanaugh-Kessler Theatre Co. plans remodeling 3 story theatre, 5th and Central Aves. N. W. $200,000. Address J. Kessler, Alhambra Theatre.

O., Cleveland — Academy — St. Joseph Academy, c/o Sister Teresi, mother superior, Riverside Dr., having sketches made by R. A. Walsh, Advance Bldg., 3 story and basement, 95 x 165 ft., brick, steel and tile, Riverside Dr. $150,000.

Buildings—Commercial (Continued)

O., Cleveland—Apartment—A. F. Soltz and associates, 422 Leader News Bldg., had plans prepared by A. W. Harris, Discount Bldg., 3 story, brick and stucco, Hampton Rd. $175,000.

O., Cleveland—Apartment and Store—H. M. Berk, 842 Leader-News Bldg., had plans prepared 3 story and basement, 36 x 140 ft., brick and timber, 12900 Woodland Ave. $150,000. Private plans.

O., Cleveland—Auto Sales Room—Cleveland Cadillac, T. H. Towell, pres., East 30th and Chester Ave., having plans prepared by W. S. Lougee, Marshall Bldg., 1 and 3 story, brick, steel and concrete addition. $150,000.

O., Cleveland—Garage, Commercial and Office—Huron-Ninth-Prospect Co., c/o J. J. Klein, Engineers Bldg., having plans prepared by W. S. Lougee, 500 Marshall Bldg., 4 story and basement, brick, steel and concrete, East 9th St. and Huron Rd. $350,000.

O., Cleveland Heights (Warrensville P. O.)—Apartment—E. A. Moss, Union Trust Bldg., having plans prepared by G. A. Ebeling, Hunkin-Conkey Bldg., 3 story and basement, 65 x 200 ft., brick and steel, 2837 Euclid Heights Blvd. $200,000.

O., Cleveland—Hotel—J. W. Wilson, Insurance Center Bldg., having plans prepared by A. W. Harris, Discount Bldg., 8 story, brick, steel and concrete, rear of 5205 Euclid Ave. $300,000.

O., Cleveland—Store, Office and Apartment—Lorain Medical Building Co., c/o W. R. Powell, archt., 705 Rose Bldg., had plans prepared 3 story and basement, 50 x 155 ft., brick, steel and concrete, West 115th St. and Lorain Ave. $150,000.

O., Columbus — Garage — R. Wheaton, Columbia Ave., having sketches made by O. Darst, 186 East Broad St., 4 story and basement, 76 x 187½ ft., brick, steel and concrete, Oak and 4th Sts. $425,000.

O., Mt. Union (Sta. Alliance)—Office—See "Buildings—Industrial."

O., Youngstown — Library — South Side Citizens conducting campaign to raise $150,000 for library for community.

Mich., Birmingham—Church and School—Episcopal Church, S. S. Marquis, rector, 31 King Ave., Detroit, having plans prepared 2 story and basement, rein.-con., brick and stone, plain foundation, Cranbrook Rd., in Bloomfield Hills, $300,000. Engineer and architects' names withheld.

Mich., Detroit — Apartment — Friedberg Apartment Development Co., 1254 Griswold St., having plans prepared by L. Chesnow, 242 West Lafayette Blvd., 4 story and basement, rein.-con., brick and steel, plain foundation, Woodward Ave.

Mich., Detroit—Store and Office—T. C. Hughes, archt., 8049 Wilson Ave., preparing plans 3 story and basement, 80 x 140 ft., brick, steel and stone, plain foundation, Jefferson and Lakewood Aves. $200,000. Owner's name withheld.

Mich., Detroit—Store and Apartment—I. August, 200 Alger Ave., having plans prepared by J. I. Weinberg, 401 Congress Bldg., 4 story and basement, 80 x 120 ft., brick and concrete, plain foundation, Dexter Bldg. $200,000.

Mich., Detroit—School—Our Lady Queen of Apostles Parish, Prescott and Conant Aves., having plans prepared by W. F. Garstecki, 403 Hoffman Bldg., 2 story and basement, 12 rooms, rein.-con., brick and steel, plain foundation, Conant Ave. $150,000.

Mich., Detroit — Theatre and Office — Balaban, Katz & Kunsky, 501 Madison Theatre Bldg., having plans prepared by C. W. and G. Rapp, 190 North State St., Chicago, Ill., 12 story and basement, about 150 x 200 ft., rein.-con., brick and steel, plain foundation.

Mich., Jackson—Office—Consumers Power Co., Michigan Ave., making plans 10 story and basement, 126 x 218 ft., rein.-con., brick and steel, plain foundation, Michigan Ave. $500,000. Private plans.

Mich., Marquette—School—St. Johns Congregation, M. Jodocy, pastor, plans 3 story and basement, 90 x 100 ft. concrete and brick, plain foundation, Bluff St. $150,000. Engineer and architect not selected.

Mich., Port Huron—School—Bd. Educ. having plans prepared by W. H. Wyeth, 2 story and basement, rein.-con., brick and steel addition, plain foundation, Reid Ave. $150,000.

Ill., Alton—High School—Bd. Educ. soon takes bids 3 story and basement, rein.-con., brick and stone. $400,000. Royer, Danley & Smith, Flat Iron Bldg., Urbana, archts. J. M. Pfeiffenbergs Sons, associated archts.

Wis., Milwaukee — Business — A. Tegtmeyer, 401 Grand Ave., having sketches made 10 story and basement, 50 x 150 ft., brick and concrete, plain foundation, Grand Ave. $400,000. Engineer and architect not selected.

Wis., Milwaukee—Office and Store—A. S. Alschuler, archt., 28 East Jackson Blvd., Chicago, Ill., soon takes bids 8 story and basement, 125 x 150 ft., brick and concrete, plain foundation, 3rd and Wells Sts., here, for English Woolen Mills Co., 204 3rd St. $1,000,000. Noted July 17.

Ia., Cedar Rapids—Bank and Office—Merchants Natl. Bank, 222 South 3rd St. having plans prepared by Weary & Alford Co., 1923 Calumet Ave., Chicago, Ill., 12 story and basement, 76 x 140 ft., rein.-con., brick and steel, 2nd Ave. and 3rd St. $1,000,000.

Kan., Hiawatha—Court House—Brown Co. having preliminary plans prepared by W. E. Hulse & Co., Stamey Hotel Bldg., Hutchinson, 3 story and basement, concrete, brick and stone. $350,000.

Neb., Lincoln—Schools—Bd. Educ., c/o J. C. Ludlow, secy., having preliminary plans prepared by Davis & Wilson, 525 South 13th St., Park School $325,000, Randolph School $200,000 and Sheridan School $120,000, all 2 story and basements, brick, concrete and stone. Noted Nov. 13.

Neb., Lincoln—Schools—Bd. Educ. had preliminaray plans prepared by Fiske, Meginnis & Schaumberg, Bankers Life Bldg., Irvine grade school $650,000 and Clinton Junior High School $250,000, both 2 story and basement, rein.-con., brick and stone. Noted Nov. 13.

Mo., St. Louis—Commercial—Local Syndicate, c/o J. Dubinsky, Wainwright Bldg., making preliminary plans 12 story and basement, rein.-con., brick and steel, Washington and 14th Sts. Private plans.

Mo., St. Louis—Home—Womens Christian Home, 1814 Washington Ave., soon takes bids 3 story and basement, 134 x 180 ft., rein.-con., brick and stone, Locust and Beaumont Sts. $350,000. L. Beaume & Klein, Compton Bldg., archts.

Mo., St. Louis—Office—C. Richardson, International Life Bldg., making preliminary plans 16 story and basement, 60 x 60 ft., rein.-con., brick, stone and steel, 4th and Locust Sts. Private plans.

Mo., St. Louis—Office—See "Unclassified under Missouri and Illinois."

Mo., St. Louis—Theater and Apartment—A. Laventhal Realty Co., 5307 Waterman Ave., soon takes bids 2 story and basement, 106 x 123 ft., rein.-con., brick, stone and marble, Union Blvd. and Northland Ave. $350,000. Wedemeyer & Nelson, Wainwright Bldg., archts.

Tex., Amarillo — High School — Election soon $250,000 bonds high school. T. W. Cotton, pres. Engineer and architect not selected.

Tex., Amarillo—Hotel—J. E. Hill plans 6 story and basement, 60 x 140 ft., brick and rein.-con., West 6th St. $375,000. Engineer and architect not selected.

Tex., Amarillo — Store and Office — A. Eakle, c/o Oliver-Eakle Realty Co., making plans 8 story and basement, 60 x 140 ft., brick and steel, plain foundation, 6th and Polk Sts. $500,000. Engineer and architect not announced.

Tex., Bowie—High School—Voted $175,000 bonds, 2 story and basement, brick and stone, plain foundation, for Bowie Industrial School Dist. Engineer and architect not selected. W. D. Smith, pres. Bd. Educ.

Tex., Dallas—Market—J. G. Hilbert, pres., and R. Smith, 1301 Main St., receiving competitive sketches rein.-con., brick and steel, plain foundation, Main St. $500,000.

Tex., Laredo—Office—A. M. Bruni plans 6 story and basement, rein.-con. and brick, plain foundation, Main St. $300,000. Engineer and architect not selected.

Okla., Ponca City—Hospital—Sisters of St. Joseph having preliminary plans prepared 3 story and basement, 80 x 170 ft., brick, plain foundation, Walnut St. $250,000. Engineer and architect not selected.

Okla., Wewoka—Lodge—Masonic Lodge making preliminary plans 2 story and basement, 50 x 140 ft., brick, plain foundation, Walnut St. $150,000. Engineer and architect not selected.

Wash., Longview—Hospital—G. McPherson, archt., Longview, takes bids about Jan. 29, 4 story, 44 x 180 ft., brick, terra cotta and tile, for Longview Memorial Assn., J. D. Tennant, pres. $175,000.

Wash., Seattle—Apartment—J. S. Hudson, Inc., Empire Bldg. takes bids about Feb. 5, 5 story, 120 x 120 ft., timber and brick apartment, also 78 x 118 ft. garage, Boren and Seneca Sts. $165,000. D. R. Huntington, Empire Bldg., archt.

Ore., Marshfield—Hotel—Marshfield Hotel Co. having plans prepared by Houghtaling & Dougan, Elks Temple, Portland and takes bids about March 1, 9 story and basement, 100 x 100 ft., rein.-con., wood pile foundation. $400,000.

Calif., Burlingame—Hotel—S. A. Horn, 218 5th St., San Mateo, plans fireproof hotel, Chapin Ave. $250,000.

Calif., Hayward—Theater—C. W. Hayer, Mills Bldg., San Francisco, having plans prepared by H. H. Meyers, Kohl Bldg., San Francisco, 1 and 2 story, rein.-con., and steel theater, here. $150,000.

Calif., Los Angeles—Apartment—L. O. and G. A. Stocker, c/o Walker & Eisen, archts., Great Republic Life Bldg., had plans prepared two 5 story, 46 x 120 ft., rein.-con., 7th and Mariposa Sts. $300,000 each.

Calif., Los Angeles—Schools—Bd. Educ. had plans prepared by C. F. Plummer, Story Bldg., 1 and 2 story and part basement, 119 x 125 ft. main building with 37 x 91 ft. auditorium, and brick, Center St., by Walker & Eisen, Great Republic Bldg., 1 and 2 story, brick, South Park Ave., $350,000; by P. O. Wright, Central Bldg., 2 story, rein.-con. and brick, 11th and Figueroa Sts., $150,000; by Jeffrey & Schaeffer, Kerckhoff Bldg., 2 story and basement, rein.-con. and brick, Hudd St. and 54th Ave., $350,000; by H. Glidden, 2633 Atresian St., 1 and 2 story and part basement, rein.-con. and brick, Wilmington Park section, $150,000.

Calif., Los Angeles—Store and Office—Walker & Eisen, archts., Great Republic Bldg., soon takes bids 12 story and basement, 85 x 140 ft., rein.-con. and steel, Bway., for Los Angeles Investment Co., c/o architects. $550,000.

Calif., Los Angeles—Store and Office—Pacific Finance Corp., Pacific Finance Bldg., having plans prepared by Curlett & Beelman, Union Bank Bldg., 12 story and basement, Class A construction, Hope St. To exceed $1,000,000.

Calif., Pasadena—Auditorium—City having plans prepared by E. Bergstrom, archt., Citizens Natl. Bank Bldg., Los Angeles, also C. Bennett, and F. Haskell, associated archts., Pasadena, 3 story, 200 x 300 ft., brick, steel and concrete, Green St. $1,000,000.

Calif., Pasadena — School — City having plans prepared by L. C. Brockway, Security Bldg., 2 story, approximately 80 x 218 ft., brick school. $150,000.

Calif., San Francisco—Store and Loft—Mangrum & Otter, Inc., 827 Mission St., plans 6 story and basement, rein.-con., Mission and 8th Sts. $150,000. Engineer and architects names withheld.

Calif., Stockton — Hospital — Corporation having plans prepared by Davis-Heller-Pearce, Inc., Delta Bldg., 3 story and basement, brick hospital. $150,000.

Calif., South Pasadena—School—South Pasadena School Dist., having plans prepared by N. F. Marsh, Bway. Central Bldg., Los Angeles, 2 story and basement, 65 x 200 ft., brick school. $150,000 or more.

Ont., Collingwood—Collegiate—Bd. Educ. plans brick collegiate, Huron St. $195,000. J. Wilson, Collingwood, archt.

Ont., London—School—Bd. Educ., having plans prepared by L. E. Carrothers, c/o owner, addition to technical school, Dundas St. $200,000.

Ont., Toronto — Exchanges — See "Unclassified."

Ont., Toronto — Hospital — St. Michaels Hospital, Victoria and Mutual Sts., plans 5 story and basement, rein.-con., brick and steel addition, plain foundation, Victoria St. $250,000. Engineer and architect not selected.

N. S., Halifax—Arsenal—Dept. Natl. Defence, Ottawa, soon takes bids arsenal, here, incl. 40 concrete structures, etc. $2,000,000.

Que., Sherbrooke—Hotel—Leyland Hotel System, Rochester, N. Y., had plans prepared by H. L. Stevens Co., 522 5th Ave., New York City, and takes bids about Jan. 15, 6 story, 74 x 180 ft. hotel, Wellington St., here.

Que., Three Rivers — Home — Sisters Dominicanies plan orphan home, Notre Dame St., $300,000. Engineer and architect's names withheld.

Que., Quebec—Chapel and Hall—Fabrique Jacques Cartier, having plans prepared by Bergeron & Lemay, Quebec, 3 story, 40 x 90 ft., chapel and hall, St. Joseph St. $150,000.

Que., Quebec—Office—P. A. Boutan, 66 St. Peter St., having plans prepared by H.

Buildings—Commercial (Continued)

Laberge, 140 St. John St., 4 story, 34 x 140 ft. office building, 80 St. Peter St. $150,000.

Que., Quebec—Parliament—Dept. Pub. Wks. takes bids end of January, 5 story, 50 x 190 ft. extension, Grand Allee. $300,000. Tanguay & Chenovert, Quebec, archts.

Que., Roberval—School—Urseline Sisters, had plans prepared by J. P. Ouellet, 29 St. Famille St. Quebec, 4 story, 86 x 163 ft. school. $300,000.

Ont., Toronto — Observatory Building — University of Toronto, Queens Park, plans 2 or 3 story and basement, rein.-con., brick and steel, plain foundation, Bathurst St. $250,000. Engineer and architect not selected.

BIDS DESIRED

N. H., Nashua—Nurses Home and Hospital — Nashua Memorial Hospital, taking bids 3 story and basement, brick home, $200,000. Stevens & Lee, 45 Newbury St., Boston, Mass., archts. Noted Nov. 20.

Mass., Framingham — Apartment — L. Flax, c/o Whitten & Gore, archts., 31 Milk St., Boston, taking bids 4 story and basement, brick and stone, plain foundation, Dennison Ave., here. $150,000. Noted Jan. 8.

Mass., Newton—High School—City taking bids 3 story and basement, brick addition to Technical High School. $700,000. Haven & Hoyt, 220 Devonshire St., Boston, archts. Noted Sept. 18.

Mass., Newtonville—High School—Feb. 2, by City of Newton, H. Fitts, chn., City Hall, Newton, 3 story and basement, brick and stone, Elm Rd. and Walnut St., here. $600,000. Haven & Hoyt, 220 Devonshire St., Boston, engrs. W. C. Richardson, 80 Boylston St., Boston, archt. Noted May 29.

Mass., New Bedford—Garage—Jan. 16, by F. J. Greene, c/o L. L. La Brode, archt., 502 Olympia Bldg., 2 story, 120 x 140 ft., brick and steel, plain foundation, Elm St. $150,000.

Mass., South Boston (Boston P. O.) — Nurses Home—Carney Hospital taking bids 5 story and basement, 42 x 122 ft., rein.-con., brick and stone addition, Old Harbor St. and Thomas Park. $250,000. Maginnis & Walsh, 100 Boylston St., Boston, archts. Noted Oct. 9.

Conn., Bridgeport—School—State Trade School, John St., H. Hanson, dir., taking bids 2 story and basement, 80 x 370 ft., brick and steel, plain foundation, Kossuth St. $200,000. E. B. Caldwell, Jr., 886 Main St., archt. Noted Oct. 30.

Conn., Derby—High School—Town taking bids 2 story and basement, 99 x 156 ft., brick and steel high school. $150,000. W. J. Smith, Blankfield Bldg., archt.

Conn., Derby—High School—Jan. 27, by City, 3 story and basement, brick, stone and steel, plain foundation, Minerva St. $500,000. W. C. Smith, 250 Main St., archt.

Conn., New London—School—Jan. 19, by Bd. Educ., F. W. Edgerton, chn., 2 story and basement school, Mercer St. $150,000.

N. Y., Buffalo—School—Jan. 23, by Bd. Educ., 3 story, 150 x 190 ft., rein.-con. and brick, plain foundation, Lovejoy St. $700,000.

N. Y., Kings Park—Hospital—Feb. 4, by State Hospital Comn., Albany, constructing buildings A to R inclusive, also T, Soldiers and Sailors Memorial Hospital Div., Kings Park State Hospital, here; adv. E. N.-R. Jan. 15.

N. J., Camden—Hospital—Jan. 19, by Lecky & Hettle, archts., 5 Hudson St., 5 story and basement, 64 x 68 ft., rein.-con. addition, plain foundation, Mt. Ephriam and Atlantic Aves., for West Jersey Homeopathic Hospital.

N. J., New Brunswick—School—Jan. 15, by Building Com. Bd. Educ., alterations and addition to Bayard School, Bayard St. between George and Neilson Sts. A. Merchant, 1 Elm Row, archt.

Pa., Reading—Museum and Art Gallery —Jan. 20, by School Dist., 2 story and basement, 62 x 300 ft., stone or brick, plain foundation, West Side Rd. and Parkeside Dr. $400,000. A. F. Smith, Berks Co. Trust Bldg., archt.

Pa., Williamsport—Church—First Church of Christ, F. A. Poffenberger, pastor, taking bids 2 story and basement, 50 x 80 ft., brick, stone and steel, West 3rd and Walnut Sts. $150,000.

Md., Baltimore—Church and School—Jan. 20, by F. J. Baldwin, archt., 328 North Charles St., 2 story and basement, 60 x 108 ft., brick, plain foundation, Liberty Heights Ave. and Edgewood Rd., for Our Lady of Lourdes Church, 3415 Liberty Heights Ave. $150,000.

N. C., Roaring Gap—Hotel—Jan. 27, by Roaring Gap Hotel Co., 4 story and basement, 67 x 187 ft., stone and steel, plain foundation. C. Barton, Keen & Wallace, 338 South Smedley St., Phila., Pa., archts.

N. C., Winston-Salem—City Hall—Feb. 3, by Northrup & O'Brien, archts., Winston-Salem, 3 story and basement, 110 x 210 ft., brick and steel, plain foundation. $1,000,000. Noted Nov. 13.

Ala., Birmingham—Schools—Jan. 20, by Bd. Educ., Barrett School, H. B. Wheelock, Steiner Bldg., archt., Kennedy School and Norwood addition, Warren, Knight & Davis, Empire Bldg., archts.; Lee School, B. Price, Age-Herald Bldg., archt.; and Fairview and Elyton Schools, D. O. Whilldin, 515 North 21st St., archt., Noted Nov. 20.

Miss., Jackson—Store—Jan. 24, by R. E. Kennington Dept. Store, and Sanquinet Staats & Hedrick, archts., 1st Natl. Bank Bldg., Ft. Worth, Tex., 6 story and basement, 100 x 100 ft., rein.-con. and brick, plain foundation. $250,000.

La., New Orleans—Hotel—Jan. 19, by E. Weil, archt., Whitney Central Bldg., remodeling hotel, for St. Charles Hotel, A. B. Wheeler Canal Commercial Bank Bldg., pres. $500,000. Noted Dec. 11.

O., Youngstown—High School—Feb. 15, by Bd. Educ., East High School, 3 story and basement. $600,000. P. Bourcherle, archt. Noted Nov. 13.

Wis., Fond du Lac—High Schools—Jan. 31, by Bd. Educ., c/o J. Hohenesee, secy., 2 story and basement, brick and tile additions to Roosevelt Junior and Fond du Lac High Schools, plain foundations. $200,000 each. Perkins, Fellows & Hamilton, 814 Tower Court, Chicago, Ill., archts. Noted June 19.

Wis., Milwaukee—Apartment—G. Zagel & Bro., archts., 144 Oneida St., taking bids 2 story and basement, 3 units, each 42 x 100 ft., brick and tile, plain foundation, Oakland Ave., for Goodsitt & Brazy, 1523 North Ave. $150,000.

> ***From Cincinnati***
>
> **"Building construction is increasing here and looks favorable for next year. There are no unsettled strikes or wage disputes in this section."**
>
> ***Construction News Correspondent***

Ia., Mason City—Warehouse and Office—Peoples Gas & Electric Co., 14 1st St. N. W., taking bids for steel work for 5 story, 73 x 131 ft., rein.-con. and steel. $275,000. Eng. Dept. United Light & Power Co., Davenport, engrs. Noted Oct. 2.

Mo., St. Louis—School—St. Mary Magdalene Parish, c/o J. J. Thompson, pastor, 4917 Sutherland Ave., taking new bids 2 story and basement, rein.-con., brick and stone, Sutherland St. H. P. Hess, 1237 North Taylor St., and W. P. McMahon, (associated) Title Guaranty Bldg., archts. Noted Oct. 16.

Calif., Berkeley—Gymnasium—University of California, 708 15th St., taking bids (1st unit) 3 story, rein.-con. and terra cotta, on campus. $450,000. B. R. Maybeck & J. Morgan, Merchants Exch. Bldg., San Francisco, archts. Noted Oct. 16.

Calif., Eureka—High School—Feb. 3, by G. B. Albee, secy. Bd. Educ., 2 story and part basement, rein.-con. high school. $450,000. J. J. Donovan, Tapscott Bldg., Oakland, archt.

Calif., Los Angeles—Store and Apartment S. Rabinowich, 317 South Kenmore Ave., taking bids 4 story and basement, 95 x 145 ft., brick and concrete, 3rd and Kenmore Sts. $165,000.

Calif., Los Angeles—Warehouse—Central Realty Co., 1208 Loew State Bldg., taking bids 1 story, 140 x 330 ft., brick, Stevenson and Clarence Sts. Norton & Wallis, 716 South Spring St., archts.

Calif., Los Angeles—Warehouse—Morgan, Walls and Clements, archts., Van Nuys Bldg., taking bids 5 story, 140 x 320 ft., rein.-con., McGarry St., for R. H. Arnold, c/o architects.

BIDS RECEIVED

N. Y., Brooklyn—School—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Jan. 16, constructing P. S. 105, Ft. Hamilton Ave. between 58th and 59th Sts., for Ed. Educ., 500 Park Ave., New York City, general contract, from T. A. Clarke Co., 122 Livingston St., $836,700; plumbing and drainage, from E. Harley, 885 New York Ave., $44,900; heating and ventilating, from D. J. Rice, 606 1st Ave., New York City, $112,787; electric work, from Cleveland & Ryan, 26 Cortlandt St., New York City, $26,649. Noted Dec. 18.

Pa., Phila.—School—Bd. Educ., 19th and Chestnut Sts., 3 story and basement, 80 x 145 ft., rein.-con. and brick addition to Walton School, plain foundation, Huntington Ave., 27th and 28th Sts., general contract, from W. Langhorne Co., 10 South 18th St., $246,972; heating, from S. Faith & Co., 2427 Penna Ave., $35,880.

Minn., St. Paul—School—Dept. Educ., L. R. Ferguson, comr., City Hall, 3 story and basement, rein.-con., brick, tile and stone, Fulton and Palace Sts., from Federal Constr. Co., 4th and Cedar Sts. $146,000. Noted Dec. 25.

CONTRACTS AWARDED

Me., Waterville — Store and Office — H. D. Eaton, c/o Bunker & Savage, archts., Augusta Trust Bldg., Augusta, altering and constructing 3 story and basement addition, Main St., to C. C. Brooks, State St., Augusta. Archts. est. $150,000.

Mass., Boston—Apartment Hotel—Kenmore Trust, c/o Snider & Druker, 18 Tremont St., will build 8 story and basement, rein.-con., brick and cast stone addition to Hotel Kenmore, 486-490 Commonwealth Ave., by day labor. $200,000. Blackshall, Clapp & Whittemore, 20 Beacon St., archts.

Mass., Boston—Office—Chamber of Commerce, 177 Milk St., completing chamber of commerce building, to W. M. Evatt Co., 200 Devonshire St. Archts. est. to exceed $150,000.

Mass., Cambridge—(Boston P. O.) Apartment—E. W. Wyner, 18 Tremont St., Boston, will build 5 story and basement, 85 x 125 ft., brick and stone, Holyoke and Mt. Auburn Sts., by day labor. $150,000. G. N. Jacobs, 4 Park St., Boston, archt. Noted Dec. 18.

Mass., Lynn—Club—Lodge of Eagles, Union St., 4 story 60 x 120 ft., brick and cast stone, Union St., to Duncan Constr. Co., 31 Exchange St. Archts. est. $150,000. Noted Nov. 27.

Mass., Norwood—High School—Bd. Selectmen, 2 story and basement, 58 x 227 ft., brick and stone, plain foundation, Nichols St., to J. A. Hyatt, Norwood, $387,672. This corrects report in Jan. 8 issue.

Mass., Springfield—High School—Sacred Heart Parish, 2 story and basement, brick school, to D. J. Donohue, 39 Forest Park Ave. Archts. est. $275,000.

Mass., Springfield—Office—H. Robinson, Inc., 25 Harrison Ave., 4 story, rein.-con., brick and steel, Maple and Stockbridge Sts., to E. J. Pinney Co., 374 Main St. Archts. est. $160,000.

R. I., Pawtucket—Church and Parish—St. John the Baptist Church, A. Graham, pastor, 1 and 2 story and basement, 75 x 180 ft., rein.-con., brick and steel, Woodlawn Sect., to A. and D. Boileau, McDougal Ave., Montreal, Que., Can. Archts. est. $350,000. Noted June 12.

R. I., Providence—Garage—A. Zura, c/o B. S. D. Martin, archt., 86 Weybosset Ave., 2 story and basement, 138 x 146 ft., brick and steel, Park and Beech Sts., to Radding Constr. Co., 114 Westminster Ave. Archts. est. $150,000.

Conn., Bridgeport — Mercantile — D. M. Read Co., Main and Fairfield Sts., 5 story, brick and stone, Broad St., to T. J. Hardy Constr. Co., 1481 Seaview Ave. Archts. est. $1,000,000. Noted Dec. 18.

Conn., Hartford—Bank—Dime Savings Bank, Pearl St., 1 story, 30 x 130 ft., concrete, steel and brick, plain foundation, Pearl St., to M. Eidlitz & Son, 41 East 42nd St., New York City. Noted Oct. 11.

Conn., Stamford — Hospital — Stamford Hospital Assn., Hubbard Hill, 3 story and basement, 40 x 100 ft., brick and steel, plain foundation, to Harris Constr. Co., Stamford. Archts. est. $250,000. Noted Nov. 27.

N. Y., Brooklyn—Apartment—J. Peltone, c/o Seelig & Finkelstein, archts. and engrs., 44 Court St., will build 4 story, brick, steel and stone, plain foundation, 52nd St. and 16th Ave., by day labor. $200,000.

N. Y., Brooklyn—Bank—Peoples Trust Co., 885 Flatbush Ave., brick, steel and

Buildings—Commercial (Continued)

stone, plain foundation, to J. Lowry, Inc., 270 Madison Ave., New York City. Noted June 21.

N. Y., Brooklyn—Church—German Evangelical Aid Society, c/o Bannister & Schell, archs. and engrs., 339 Lexington Ave., New York City, brick, steel and stone, plain foundation, Bushwick Ave. and Chauncey St., to M. Zeisler, 79 Wall St., New York City. Archts. est. $300,000.

N. Y., Buffalo—Garage and Office—R. Potter, 268 Main St., rein.-con., Main St., to J. W. Cooper, Inc., Fidelity Bldg., to exceed $500,000.

N. Y., Buffalo—Theater—Shea Amusement Co., 40 Court St., 6 story, 143 x 183 ft. rein.-con., steel and terra cotta, Main St., to J. Gill & Son, Cleveland, Citizens Bldg., O., to exceed $1,000,000.

N. Y., New York—Apartment—N. J. Hess, c/o J. E. R. Carpenter, archt. and engr., 598 Madison Ave., 15 story, 100 x 150 ft., brick, steel and stone, plain foundation, 64 East 65th St., to D. P. Robinson, Lexington Ave. and 46th St. Archts. est. $800,000. Noted Oct. 23.

N. Y., New York—Apartment—B. and O. Neiberg Co., c/o D. L. Lang, archt., 110 West 34th St., will build 6 story, 100 x 150 ft., brick, steel and stone, plain foundation, 193rd St. and Bway., by day labor.

N. J., Jersey City—Library—Jersey City Bd. Trustees, constructing Free Pub. Library, Stevens Ave., to Lunoize Bros., 118 8th St., West New York. Noted Dec. 4.

Pa., Elkins Park—High School—School Bd. Cheltenham Twp., general contract 3 story and basement, 156 x 190 ft., rein.-con. and brick, plain foundation, to J. Y. Loux, 15th St. and Hunting Park Ave., Phila., $384,700; plumbing to J. Borden & Bros., 627 North 19th St., Phila., $28,350; heating, to D. J. Keating, 2042 Rittenhouse Sq., Phila., $61,776.

N. C., Chapel Hill—Church—Methodist Church, church, to Jewell & Riddle, Sanford, $156,000.

N. C., Raleigh—Office—Wachovia Bank & Trust Co., 232 Fayetteville St., 8 story, steel and fireproof office, to J. E. Beaman Constr. Co., New Odd Fellows Bldg., Raleigh, $334,201. Noted Dec. 25.

Tenn., Nashville — Apartment — A. S. Weinbaum, Courtland Apts., general contract 3 story, 100 x 200 ft., concrete, brick and stone, Wilson Blvd., to J. B. Regen & Co., Deaderick St., approximately $250,000.

Tenn., Nashville—Office—Life & Casualty Insurance Co., 309 Church St., 5 story, 100 x 118 ft., rein.-con., brick and stone, 4th Ave. N., to Foster & Creighton, 4th and 1st Natl. Bank Bldg., $250,000.

O., Cleveland—School and Auditorium—St. Augustines Convent, 14808 Lake Ave., 3 story and basement, 81 x 127 ft. school and auditorium, to Schirmer-O'Hara Co., 1720 Euclid Ave. Archts. est. $200,000.

O., Cincinnati—Hospital—S. Hannaford & Sons, archts., 1024 Dixie Terminal Bldg., 6 story and basement, rein.-con., and brick, plain foundation, Middleton Ave., to M. Penker & Sons, Valencia St., for Bethesda Hospital, 122 East 4th St., $650,000. Noted Dec. 18.

O., Columbus—Hall—Richards, McCarty and Bulford, archts., 584 East Broad St., 5 story (ultimately 7 story) and basement, 120 x 130 ft., brick, steel and terra cotta, 6th and State Sts., to Middle States Constr. Co., East Hudson St., for Knights of Columbus, 6th and State Sts. $363,000. Noted Dec. 11.

O., Mansfield—High School—Bd. Educ., 3 story and basement, 250 x 400 ft., rein.-con. and brick. Senior High School, to Kossler Bros., Tiffin, $348,672. Noted Dec. 25.

Mich., Dearborn — High School — C. D. Mason & Co., archts., 508 Griswold St., Detroit, 3 story and basement, 78 x 304 ft., rein.-con., brick and steel, plain foundation, to A. W. Kutsche & Co., 333 State St., Detroit, for Bd. Educ. Archts. est. $395,000. Noted Nov. 27.

Mich., Detroit—Apartment—T. Davidson, 55 Glendale Ave., will build 4 story and basement, 90 x 130 ft., brick and steel, plain foundation, 3rd Ave., by day labor. $260,000. L. J. Chesnow, 408 West Fort St., archt.

Mich., Detroit — Apartment — Richmond Building Co., 13517 Stoepel Ave., 6 story and basement, brick, steel and concrete, plain foundation, Linwood Ave., to Natl. Constr. Co., 1031 Dime Bank Bldg.

Mich., Melvindale (Ecorse P. O.)—Bd. Educ., 3 story, rein.-con., brick and steel, plain foundation, to F. R. Patterson Constr. Co., 2631 Woodward Ave., Detroit, $200,000.

Ill., Decatur—School—Bd. Educ. 3 story and basement, rein.-con. and brick school, to Cope & Fisher, Decatur. Archts. est. $285,000.

Ill., Pekin—High School—Bd. Educ., general contract 3 story, with 2 40 x 130 ft. wings, brick and concrete, to J. W. Montgomery, Sidell, $84,900; heating and ventilating, to L. T. Hagerman, Sullivan, $25,000. Another unit will be built later. Noted Dec. 18.

Wis., Madison—Apartment—W. J. Keating, c/o R. McKay, 25 Carroll St., 3 story, 54 x 108 ft., brick and rein.-con., plain foundation, to J. H. Kelly, 24 East Mifflin St. Archts. est. $150,000.

Wis., Madison—Arcade—S. C. Hanks, 1 South Pinckney St., 4 story, 60 x 150 ft., rein.-con., brick and steel, plain foundation. Fairchild St., to A. D. and J. V. Frederickson, 702 East Main St.

Wis., Milwaukee—Apartment and Store—M. Miller, 216 West Water St., 3 story and basement, 60 x 114 ft., brick and concrete, plain foundation, Maryland Ave., to Johns & Knuth, 1331 28th St. Archts. est. $200,000. Noted Nov. 13.

Wis., Milwaukee — Apartment — Wales Building Co., c/o A. Seidenschwartz, archt., 290 3rd St., 3 story and basement, 52 x 132 ft., brick and tile, plain foundation, 12th St. to Coddington Eng. Corp., 290 3rd St. Archts. est. $150,000. Noted Oct. 9.

Wis., Milwaukee—Office—F. W. Woolworth & Co., 301 Grand Ave., will remodel office building, Grand Ave., by day labor, under supervision of H. C. Weaver, 900 Builders Exchange Bldg., Minneapolis, Minn. $150,000.

Ia., Burlington — Office — Syndicate of Physicians, c/o G. H. Steinle, 614 Iowa State Bank Bldg., general contract, 7 story and basement, 60 x 68 ft., rein.-con. and brick, to J. Hunzinger Co., 409 Security Bldg., Davenport, about $350,000. Noted Jan. 8.

Minn., Minneapolis — Apartments — L. Fleisher Co., 505 Plymouth Bldg., will build two 3 story, brick and stone 33rd St. and Fremont Ave., by day labor. $150,000. A. Rose, 510 Essex Bldg., archt.

Mo., St. Louis—Office and Store—Local Realty Co., c/o W. M. Louderman, Bank of Commerce Bldg., general contract 12 story and basement, 88 x 106 ft., rein.-con., brick, stone and steel, office and store building, 11th and Locust Sts., to J. Black Masonry & Contg. Co., Arcade Bldg. Archts. est. $75,000.

Mo., St. Louis—Warehouse—May Department Stores Co., c/o Famous-Barr Co., 6th and Olive Sts., general contract 7 story and basement, 300 x 500 ft., rein.-con., brick, stone and steel warehouse, etc., Spring and Market Sts., to Boaz-Kiel Constr. Co., 4030 Chateau St. Archts. est. $850,000.

Tex., Amarillo — Temple — G. Stapleton, secy. Masonic Lodge, 3 story and basement, 80 x 140 ft., brick, stone, terra cotta and rein.-con., plain foundation, 5th and Fillmore Sts., to F. Bone Constr. Co., Amarillo, approximately $200,000.

Wash., Everett—High School—School Bd., brick and terra cotta, with large auditorium, etc., to Everett Building Co., Everett, $197,000.

Calif., Berkeley—Theatre and Store—J. T. Narbett, archt., 910 Macdonald Ave., Richmond, rein.-con. and steel, Bancroft Way, to F. W. Maurice, 1362 East 25th St., Oakland, for F. Atkins, c/o architect. Approximately $155,000. Noted Dec. 4.

Calif., Los Angeles—Bank and Office—Pacific Natl. Bank, steel contract for 12 story, Class A, Hill and 9th Sts., to Union Iron Wks., 5125 Santa Fe Ave. Archts. est. $150,000. Noted Jan. 1.

Calif., Los Angeles — Office and Warehouse—Morgan, Walls & Clements, archts., Van Nuys Bldg., 5 story and basement, 180 x 250 ft., rein.-con., San Fernando Rd., to North Pacific Constr. Co., 723 Detwiler Bldg., for W. P. Fuller Co., 135 North Los Angeles St. $251,400. Noted Dec. 4.

Calif., Los Angeles—Store and Office—Citizens Mortgage Co., Loew State Bldg., 13 story and basement, 98 x 110 ft., rein.-con., Bway., to Vaughn Constr. Co., Chapman Bldg., $692,250.

Calif., Oakland—Office and Store—Yerxe & Steves, Inc., 1555 San Pablo Ave., 5 story and basement, brick, Franklin and 13th Sts., to R. Cloney, 1303 Tribune Tower, Oakland, $155,000. Noted Oct. 30.

Calif., San Diego—Dance Hall—Mission Beach Co., Scripps Bldg., 1 story, 150 x 160 ft., concrete, brick and steel, Ventura Pl., to Wurster Constr. Co., Natl. Bank Bldg., Los Angeles, $185,000.

Calif., Santa Monica — Church—A. C. Martin, archt., Higgins Bldg., Los Angeles, brick church, here, to Wurster Constr. Co., Natl. City Bank Bldg., Los Angeles, for Santa Monica Catholic Church, N. Conneally, pastor, 8th St. $185,200. Noted Jan. 1.

Calif., San Francisco — Apartment — E. Fritz, 1401 Masonic Ave., will build 8 story and basement, 100 x 150 ft., Class A, Mason and Sacramento Sts., by day labor. $500,000. Noted Dec. 18.

Que., Three Rivers—School—School Bd., constructing school, St. Paul Ave., to G. A. Gruninger, Lanolette St., $224,000.

Federal Government Work

PROPOSED WORK

Mass., Boston—Rehabilitating—U. S. Engineer, Wash., D. C., plans rehabilitating tuberculosis building at Marine Hospital 2, here.

Pa., Pittsburgh—Dam—U. S. Engineer Office rejected bids Dec. 22, constructing new Dam 7, Monongahela River. Noted Nov. 27.

Ill., Great Lakes—Water Intake—Spec. 5044—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans water intake extension, here.

Calif., Mare Island—Alterations—Spec. 5034—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans alterations to Building M-34, here.

BIDS DESIRED

Pa., Phila.—Dredging Sleeves—Jan. 29, by U. S. Engineer Office, War Dept., Wash., D. C., 426 dredging sleeves, here.

W. Va., Clarksburg—Post Office—Feb. 6, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling post office, here; adv. E. N.-R. Jan. 15.

Ala., Florence—Cable—Jan. 29, by U. S Engineer Office, War Dept., Wash., D. C., generator lead cable for power house at Wilson Dam.

Ala., Florence—Insulators—Jan. 28, by U. S. Engineer Office, porcelain insulators with cable clamp for 15,000 volt service; adv. E. N.-R. Jan. 15.

Ala., Tuskegee—Filtration Plant—Feb. 10, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., filtration plant at U. S. Veterans Hospital 91, here. F. T. Hines, dir.

Wash., Keyport—Extension—Feb. 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to Torpedo Storehouse, here.

P. I., Cavite—Radio Tower—Spec. 5057—Feb. 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing 210 ft. self supporting steel radio tower, here. Noted Jan. 8.

BIDS RECEIVED

Mass., South Boston (Boston P. O.)—Sewerage System — Spec. 5043 — Bureau Yards & Docks, Navy Dept., Wash., D. C., sewerage system in Dry Dock, here, from Virginia Eng. Co., Inc., Newport News, Va., $31,828. Noted Dec. 25.

Va., Hampton Roads—Seaplane Runway—Spec. 5029—Bureau Yards & Docks, Navy Dept., Wash., D. C., seaplane runway at air station, here, from Carpenter & Petrie, Inc., 519 Citizens Bank Bldg., Norfolk, (1) $47,627 (2) $6.50. Noted Dec. 18.

CONTRACTS AWARDED

Va., Norfolk—Repairs—Spec. 5026—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to floors at Naval base, here, to Conrad Bros., Inc., 219 Citizens Bank Bldg., $31,185 (90 days). Noted Dec. 18.

Idaho—Road—U. S. Bureau Pub. Rds., Ogden, Utah, grading and crushed rock surfacing 8.8 mi. Camas Prairie Highway, between Stites and Harpster, Idaho Co., to Rumsey & Jordan, Seattle, Wash., $94,959.

Calif., San Diego—Air Compressor Building—Spec. 5059—Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing air compressor building, here, to Great Western Co., 456 Spreckels Bldg., San Diego, $1,750 (90 days).

Unclassified

PROPOSED WORK

Playground—Charlestown (Boston P. O.) **Mass.**—Street Laying Out Dept., City Hall, Boston, plans playground on land bounded

Unclassified (Continued)

by Cross St., Cross St. Ave., Cedar St. and Cross St. Court, here. $25,000. J. F. Sullivan, secy.

Land Development, etc.—Lowell, Mass.—See "Buildings—Commercial."

Playground—Newton, Mass.—Bd. Aldermen plan reconstructing Victory Field and Allston, Park, California St., Nonantum Dist., here, as playground. $25,000 or more. Engineer not selected. E. Hermann, supt. City Playgrounds.

Park—Norwood, Mass.—Bd. Selectmen plans developing 10 acres off Winter St. for public recreation park. $25,000. Engineer not selected.

Storage Tank—New Britain, Conn.—New Britain Gas Light Co., plans steel storage tank, 2,000,000 cu.ft. capacity, Cherry and Lilac Sts. $200,000. H. T. Sloper, mgr.

Stadium—Madison, Wis.—City, c/o H. C. Buser, city clk., plans rein.-con. and steel stadium at Stevens Athletic Field. $25,000. Engineer not selected.

Light and Power Extensions, etc.—Missouri and Illinois—Union Electric Light & Power Co., 12th and Locust Sts., St. Louis, Mo., plans to expend more than $11,000,000 for improvements and extensions, incl. laying 6 new cables on bottom Mississippi River connecting St. Louis with power plant at Cahokia, Ill., converting St. Charles St. and Lucas Ave. substations into automatic substations, doubling capacity of Kingshighway Blvd. substation, increasing capacity of Chippewa, Enright, Penrose, Page Ave. and South Bway. substations, $1,630,000; new distribution lines and placing some lines underground $1,385,000, extending service lines in St. Louis Co., $620,000, and similar extensions elsewhere in Missouri, $180,000; remodeling office building on 12th Blvd. to convert space now used as theatre into offices, $760,000; 35 mi. transmission line from Crystal City, Mo., to Cahokia, Ill., plant, $1,000,000. L. H. Egan, pres.

Steam Line—St. Louis, Mo.—See "Buildings—Industrial."

Underpass—Houston, Tex.—See "Streets and Roads."

Wharf—Martinez, Calif.—Associated Oil Co., 79 New Montgomery St., San Francisco, having preliminary plans prepared wharf, Bulls Head Point. $100,000. Private plans.

Asphalt Plant—Santa Rosa, Calif.—Clark and Henery Constr. Co., Chancery Bldg., San Francisco, plans asphalt plant. $25,000.

Wharf—Cap-de-la-Madeleine, Que.—Three Rivers Harbor Comn., Three Rivers, plans crib wharf. $200,000. B. Grandmont, Three Rivers, engr.

Power Development — Nipigon, Ont. — Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans diversion of Albany River and its waters into Lake Nipigon, here, to increase water supply for plants at Cameron Falls. $1,000,000. F. A. Gaby, c/o owner, ch. engr.

Memorial — Ottawa, Ont. — Dept. Pub. Wks. will soon call for designs for War Memorial, on Connaugh Pl. $100,000.

Conduits, Underground Cables, etc. — Toronto, Ont.—Bell Telephone Co., 76 Adelaide St. W., plans new conduits, underground cables, etc., also new exchanges on Asquith St. and Runnymede Rd. $750,000. F. Kennedy, mgr.

Mains—Point Grey, B. C.—British Columbia Electric Ry. Co., 425 Carrol St., Vancouver, making plans 3 mi. 12 in. mains in March to University site. $75,000. J. Keillor, c/o owner, engr.

BIDS DESIRED

Heating Work—Ogdensburg, N. Y.—Feb. 4, by State Hospital Comn., Albany, heating work, high pressure steam mains, in St. Lawrence State Hospital, here; adv. E. N.-R. Jan. 15.

Fire Sprinklers—Rochester, N. Y.—Feb. 4, by State Hospital Comn., Albany, automatic fire sprinklers in Rochester State Hospital, here; adv. E. N.-R. Jan. 15.

Borings—Phila., Pa.—Feb. 3, at Room 216, City Hall, core borings in Schuylkill River, at site of proposed bridges at Penrose and University Aves. G. H. Biles, dir. Pub. Serv.; adv. E. N.-R. Jan. 15.

Lighting System—Wetumka, Okla.—See "Waterworks."

Street Lighting System — Los Angeles, Calif. — Bd. Pub. Wks. taking bids 88 pressed steel standards on Beverly Blvd. between Vermont and Western Aves., 21 concrete standards on Mullen Ave. between Wilshire and Country Club Dr., 50 on 16th St. between Hoover and Berendo Sts., and 18 on Windsor Blvd. between Clinton and Beverly Blvd.; 106 c.i. standards on 6th St. between Vermont Ave. and Gramercy Pl. To exceed $75,000. Noted Dec. 4.

Tanks—Montreal, Que.—Imperial Oil Co., 918 St. Patrick St., taking bids erecting 2 new tanks, each 82,000 bbl. capacity.

BIDS RECEIVED

Fire System — Brooklyn, N. Y. — B. S. Coler, comr. Dept. Pub. Welfare, Municipal Bldg., New York City, Jan. 7, fire alarm system in Kings Co. Hospital, here, from Jandous Electric Equipment Co., 109 West 31st St., New York City, $45,300. Noted Jan. 1.

Heating and Ventilating, etc.—Brooklyn, N. Y.—See "Buildings—Commercial."

Subway—Long Island City, N. Y.—Bd. Transportation, Municipal Bldg., New York City, Jan. 9, tracks for portion of Flushing extension of Queensboro subway line, Queens Boro, from T. H. Reynolds Contg. Co., 50 Park Pl., New York City, $193,805. Noted Jan. 1.

Borings—New York, N. Y.—Bd. Transportation, Municipal Bldg., Jan. 9, making borings along West Bway., Greenwich, 6th and 8th Aves., East 53rd, Wall, Fulton, Church, Houston and Worth Sts., Agreement "DQ," Manhattan Boro., from Osborne Drilling Co., 120 Liberty St., $53,173; also miscellaneous construction providing sewer and water connections at various locations, Agreement "DQ," Bronx Boro, from Fox Reynolds Co., 81 East 125th St., $7,615. Noted Jan. 1.

Heating—Phila. Pa.—See "Buildings—Commercial."

Sheet Metal Work—New Orleans, La.—Bd. Port Comrs., New Court House Bldg., Jan. 7, sheet metal work and glazing skylights on Claiborne Ave. shed, from R. G. Holzer Estate, New Orleans, $28,066. Noted Jan. 1.

Coal Handling Equipment—Detroit, Mich.—Pub. Lighting Comn., East Atwater St., coal braker, conveyors and other coal handling equipment for public lighting plant, from Link Belt Co., 5938 Linsdale Ave., $75,927.

CONTRACTS AWARDED

Foundation—Springfield, Mass.—T. M. O'Leary, State St., foundation for 2 story and basement, brick and timber school, Linden and Everett Sts., to D. J. Donahue, 39 Forest Park Ave.

Heating and Plumbing—Elkins Park, Pa.—See "Buildings-Commercial."

Coke Ovens—East Thomas (Birmingham P. O.), **Ala.**—Republic Iron & Steel Co., larger type of by-product copper ovens, to Kopper Co., Union Trade Bldg., Pittsburgh, Pa., $2,000,000. Noted Jan. 1.

Grand Stand, etc. — Cleveland, O. — Thistledown Jockey Club Co., c/o J. H. McMillan, 917 Swetland Bldg., grand stand, paddock and clubhouse, also grading for race track, Emery Rd., to Natl. Iron & Wire Co., Lakeside Ave. Archts. est. $150,000. Noted Jan. 8.

Heating and Ventilating—Pekin, Ill.—See "Buildings—Commercial."

Distribution Mains — St. Louis, Mo. — Laclede Gas Light Co., 11th and Olive Sts., will construct 42.23 mi. 4, 6 and 12 in. distribution mains, 66.49 m.i service connections, 26,200 ft. 30 in. main connecting coke plant in Carondelet with distribution system on Bancroft Ave., and improve various stations, etc., by day labor. $3,000,000.

Sand Cleaning Plant—Corona, Calif.—Pacific Silicate Sand Co., 30 x 60 ft., timber sand cleaning plant and equipment, to Southwestern Eng. Corp., Hollingsworth Bldg., Los Angeles. Engrs. est. $40,000.

Street Lighting System—Los Angeles, Calif.—Street lighting system on Figueroa St. between 11th and Adams Sts., to R. A. Wattson, 1026 McCadden Pl., $78,351; 8th St. between Figueroa and Vermont Ave., also Citrus Ave. between 3rd St. and Wilshire Blvd., to G. W. Kemper, P. O. Box 126, Alhambra, $77,777 and $17,428 respectively; El Centra Ave. between Hollywood and Santa Monica Blvds. and Main St. between 36th Pl. and 57th St., to J. C. Perry, 731 Detwiler Bldg., $11,177 and $66,765 respectively. Noted Nov. 13.

Cribwork—Three Rivers, Que.—International Paper Co., Three Rivers, will build cribwork, by day labor. $500,000. J. Bourgeois, Three Rivers, engr.

Material and Equipment

PROPOSED WORK

Gravel Crushing Outfit—Wautoma, Wis.—Waushara Co. soon takes bids gravel crushing outfit. F. Grimm, highway comr.

Tractor, etc.—Wisconsin Rapids, Wis.—Wood Co. soon takes bids 10-ton tractor and patrol equipment. E. Morris, highway comr.

Engine, etc.—Pearsall, Tex.—See "Buildings-Industrial."

Pipe and Fittings — Glendale, Calif. — Plans to purchase 20,000 ft. 6 in. Class B, 20,000 ft. 8 in. Class B, 2,000 ft. 8 in. Class C, 2,000 ft. 12 in. Class B, and 4,400 ft. 12 in. Class D c.i. pipe, also 20 tons Class D fittings. A. J. Van Wie, city clk.

Steam Shovel and Dump Carts — San Diego, Calif. — Common Council appropriated $18,000 to purchase steam shovel and 3 dump carts. F. A. Rhodes, city mgr.

BIDS DESIRED

Cement, Gravel, etc.—Brooklyn, N. Y.—Jan. 21, by J. A. Guider, boro pres., Boro Hall, 8,000 bbl. Portland cement, 4,000 cu. yd. gravel, 4,000 cu.yd. broken stone, 2,000 cu.yd. sand grit, 5,000 cu.yd. paving and concrete sand, 2,000 cu.yd. 1½ in. and 1,500 cu.yd. ¾ in. broken stone, 80,000 gal. asphaltic macadam binder, 500,000 gal. asphalt road oil, 400,000 gal. asphaltic cement, 2,000 tons limestone, 300 tons paving pitch, and 4,000 cu.yd. binder stone.

Cement, Trucks, etc.—New York, N. Y.—Jan. 19, by J. Miller, pres. Manhattan Boro, Municipal Bldg., 20,000 bbl. Portland cement, 6 motor trucks, 3 portable air compressors, 3 tandem steam rollers, and 14 steel dumping bodies.

Trucks—Georgia—Feb. 6, by State Hy. Dept., East Point, 40 or more 1 ton low speed trucks, hardwood cabs and steel or wood dump bodies, 1 gripped with pneumatic tires; 40 or more 1 ton low speed trucks, without cabs or bodies, 1 gripped with pneumatic tires; 40 or more cabs of hard wood; 40 or more dump bodies, either wood or steel. Second hand material to be traded in on trucks. W. R. Neal, highway engr.

Rip Rap, Stone, etc.—New Orleans, La.—Jan. 29, by H. S. Bennion, engr. 4th Mississippi Dist., 140 Decatur St., furnishing rip rap, one man stone, concrete, or slag as follows: 10,000 tons delivered to New Orleans, 15,000 tons delivered to Vidalia, and 5,000 tons to Vicksburg, Miss., or Delta, La.

Crane—Canton, O.—United Alloy Steel Corp., 1940 Harrison Ave., in market for 10 ton crane to go in truck run way building. G. A. Charls, purch. agt.

Cranes, etc.—Youngstown, O.—Carnegie Steel Co., Carnegie Bldg., Pittsburgh, Pa., taking bids 4 cranes, 1 electric clamshell bucket, for McDonald Wks., Salt Spring Rd., here. C. Miller, purch. agt.

Road Machinery—Jefferson, Wis.—Jan. 20, by R. D. Royce, highway comr., Fort Atkins, twenty-four 9 ft. slip scrapers with runners on extra bottom, 4 patrol graders, 1 back sloper for Adams No. 8 grader, 6 dozen shovels, 24 bits for wheelscrapers, for Jefferson Co. Noted Dec. 25.

Conveyors, etc.—Madison, Wis.—Castle & Doyle Co., 125 State St., taking bids material and equipment, incl. conveyors, etc., for gravel bin.

Sand and Gravel—Minneapolis, Minn.—Jan. 23, by F. S. Gram, city purch. agt., 7,500 cu.yd. sand, and 15,000 cu.yd. gravel, for Water Dept. N. W. Elsberg, city engr.

Tractors—Ballinger, Tex.—Feb. 10, by P. Trimmier, judge Runnells Co., several 10 ton caterpillar tractors and accessories.

Tractors—Hillsboro, Tex.—Jan. 26, by M. Clyette, aud. Hill Co., one or more caterpillar tractors.

CONTRACTS AWARDED

Pipe—Baltimore, Md.—Bd. Awards, furnishing and loading rein.-con. pipe, to Core Joint Concrete Pipe Co., Irvington, N. J., for Highways Engineer. $49,450. Noted Jan. 8.

Cement—Minneapolis, Minn.—For 30,000 bbls. Portland cement to each of following: Landers - Morrison - Christensen Co., 800 Builders Exch., P. G. Speakes Co., 2845 2nd Ave. S., and Minneapolis Builders Supply Co., 721 Lumber Exch.; 10,000 bbls., to L. W. Northfield Co., 2542 Central Ave., 5,000 bbls., to Twin City Brick Co., 816 1st National-Soo Line Bldg.; 20,000 bbls., to Thompson Yards, 2694 University Ave., St. Paul, all $2.37 per bbl. Noted Jan. 1.

Castings, etc.—Minneapolis, Minn.—To Baker Valve Co., 1855 East 28th St., rings and covers $62, catchbasins $64, and covers $64; to Streator Clay Mfg. Co., 813 Guardian Life Bldg., St. Paul, 300,000 vitr. paving bricks, $19.25 per M.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: Feb. 4.

Buildings

Kings Park, N. Y.

Sealed proposals for Construction, Buildings A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R and T, Soldiers and Sailors Memorial Hospital Division Kings Park State Hospital, Kings Park, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 3 o'clock p.m., Wednesday, February 4, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit consisting of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York, or money, in the sum of $125,000.00 The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 4247. The right is reserved to reject any or all bids. Drawings and specifications may be examined at Kings Park State Hospital, Kings Park, N. Y.; at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23rd Street; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $100.00, made payable to the State of New York, for each set of Construction drawings and specifications, which check will be returned if the drawings and specifications are received in good condition by the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated: January 5, 1925.

STATE HOSPITAL COMMISSION.

Bids: Feb. 4.

Fire Sprinklers

Rochester, N. Y.

Sealed proposals for Automatic Fire Sprinklers, Rochester State Hospital, Rochester, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 3 o'clock p.m., on Wednesday, February 4, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that the bidder will enter into contract if it be awarded to him. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York, or money equal to five per cent (5%) of the amount of the bid. The Contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 4415. The right is reserved to reject any or all bids. Drawings and Specifications may be examined at the Rochester State Hospital, Rochester, N. Y., at the New York office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23rd St., and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y.

Dated: December 23, 1924.

OFFICIAL PROPOSALS

Bids: Jan. 27.

Conduit

CONTRACT 219

New York, N. Y.

SEALED BIDS will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers streets, New York City, until 11 a.m., Eastern Standard time, on Tuesday, January 27, 1925, for Contract 219, for the construction of Section 1 of the Williamsburg conduit, a portion of the City conduits of the Catskill aqueduct, extending from Shaft 24 of the City tunnel in Fort Greene park along Myrtle, North Portland, Park, Franklin and Wythe avenues and Hooper, South 1st, Maujer and Leonard streets to a point in Leonard street about 115 feet south of Metropolitan avenue, in the Borough of Brooklyn, New York City.

The conduit will consist of about 15,250 linear feet of 72-inch steel pipes, about 250 tons of cast-iron pipes and special castings of various sizes, a Venturi meter, valves and other appurtenances, all of which will have to be maintained for one year.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President,
JAMES P. SINNOTT,
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGLER,
Secretary.

Bids: Feb. 3.

Filter Sand and Gravel

Buffalo, N. Y.

Sealed proposals for furnishing and delivering the necessary sand and gravel for the filter plant, City of Buffalo endorsed "Filter Sand and Gravel, contract No. 23, Buffalo Filter Plant" will be received by the Commissioner of Public Works at his office in the Municipal Building until 11 a.m. on February 3, 1925, and at that time will be publicly opened and read.

The work to be done under this contract includes the furnishing and delivering, screening, washing and placing of approximately 4,650 cu.yds. of filter sand and 2,500 cu.yds. of filter gravel.

Each bid must be accompanied by a certified check upon an acceptable national bank or trust company made payable to the Commissioner of Public Works of the City of Buffalo, N. Y., in an amount of 15% of the total amount of the proposal. Checks of all unsuccessful bidders will be returned upon demand upon the execution of the contract and the furnishing of security.

A bond in the sum of 100% of the proposal with a satisfactory surety company as surety will be required conditioned upon the faithful performance of the work, said bond to remain in force for one year after the final completion and acceptance of the work.

Copies of plans and specifications may be seen at the office of the Commissioner of Public Works, Buffalo, N. Y., and copies of plans, specifications and form of proposals may be obtained at said office.

WILLIAM F. SCHWARTZ,
Commissioner of Public Works.
GEORGE C. ANDREWS,
Filtration Engineer.

OFFICIAL PROPOSALS

Bids: Feb. 4.

State Hospital Work

Ogdensburg, N. Y.

Sealed proposals for Heating Work, High Pressure Steam Mains, St. Lawrence State Hospital, Ogdensburg, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 3 o'clock p.m., on Wednesday, February 4th, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York, or money equal to five per cent (5%) of the amount of the bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specification No. 4446. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the St. Lawrence State Hospital, Ogdensburg, N. Y., at the New York Office of the Department of Architecture, 18th floor, Fuller Building, Broadway and 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y.

Dated: December 31st, 1924.

Bids: Jan. 23 and 24.

Highway Work

Harrisburg, Pa.

Pennsylvania Department of Highways, Harrisburg, Pa. Bids will be received January 23 and 24, 1925, for construction of thirty-two projects, totaling one hundred thirty-five miles, construction to be reinforced concrete. Projects situated in the following counties:

Allegheny	Indiana
Beaver	Luzerne
Bedford	Mercer
Berks	Perry
Bradford	Potter
Butler	Somerset
Clarion	Susquehanna
Clearfield	Warren
Crawford	Washington
Elk	Wyoming
Franklin	York
Greene	

Full particulars upon application to W. H. Connell, Engineering Executive and Deputy Secretary of Highways, Harrisburg, Pennsylvania.

Bids: Feb. 3.

Core Borings

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS

Philadelphia, Pa.

Sealed proposals will be received at Room 216, City Hall, until 12 o'clock noon on February 3, 1925, and opened at that time in Room 216, City Hall, for Core Borings in the Schuylkill River at Site of Proposed Bridges at Penrose Avenue and University Avenue (near 34th Street).

All proposals must be accompanied by a certified check in the amount of five (5) per cent of the bid, in accordance with the ordinance of March 7, 1924.

GEORGE H. BILES,
Director.

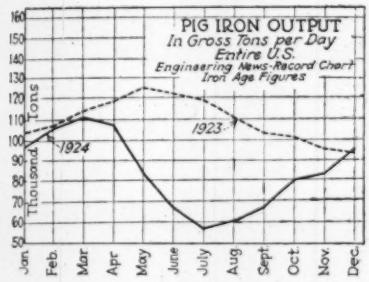
Inquire at Room 416, City Hall.

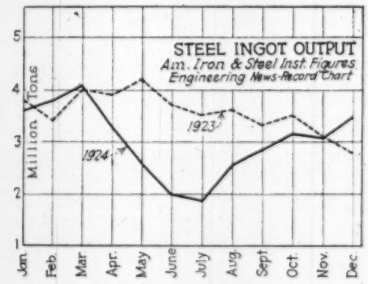
CONSTRUCTION NEWS

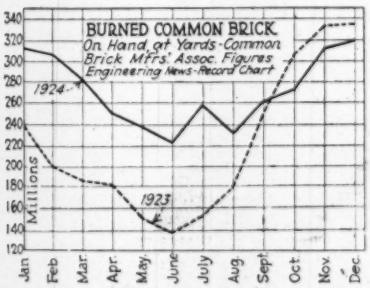
The Construction Barometer

Increase in Number of Large Projects on Which Bids Are Desired—Materials Prices Firm—With Exception of Steel, Production Has Not Yet Passed Low Point of Mid-Winter

LETTINGS for private commercial buildings are gaining steadily throughout the entire country. This applies to the number of awards and not to money value of contracts let. Consistent gains are also noted in the number of jobs on which bids are desired, for commercial building construction and all types of private and public work. Locally, the volume of street and road work is increasing in the South. The same is true of sewers, streets and roads in the section immediately west of the Mississippi. Water-works lettings are more active in the Middle West; private building awards in the eleven Northeastern states. During the next thirty days the extreme low point of mid-winter production will have been reached and passed. After that most of the basic materials will probably follow steel in the upward trend of output.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

Value of Large Contracts Let In The United States

Week Ended	Public Work	Private Work	Total Contracts
Jan. 1	$13,014,000	$14,086,000	$27,100,000
Jan. 8	14,802,000	22,525,000	37,327,000
Jan. 15	14,189,000	20,722,000	34,911,000
3 weeks	$42,005,000	$57,333,000	$99,338,000

Large Building Contracts—Number and Value

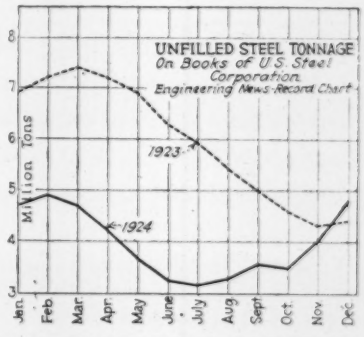
	Commercial				Industrial	
Week Ended	Public No.	Public Thousand	Private No.	Private Thousand	No.	Thousand
Jan. 1	9	$4,022	14	$12,434	11	$1,583
Jan. 8	23	5,286	31	15,385	21	5,517
Jan. 15	11	3,149	45	13,346	15	2,051
3 weeks	43	$12,457	90	$41,165	47	$9,151

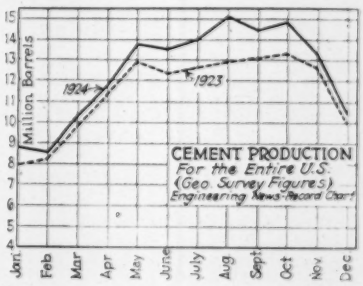
Number Of Large Jobs Now Out For Bids

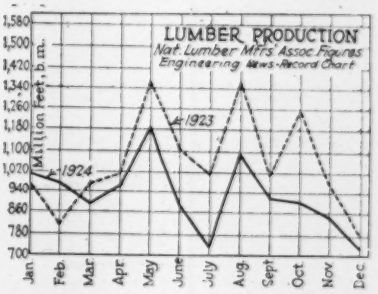
Week Ended	Private	Commercial Buildings	Streets and Roads	Waterworks and Sewers	All Public
Jan. 1	17	20	28	20	109
Jan. 8	27	28	34	19	125
Jan. 15	27	37	27	36	140

Cement Up In Chicago—Pine Higher in New York

	Quoted on Jan. 22 at	Last Price Change Was	On
Structurals, Pittsburgh, 100 lb.	$2.00 @2.10	$1.85 @2.10	Dec. 4
Cement, Chi., net bbl.	2.20	2.10	Jan. 15
Pine, N. Y., M. ft.	60.00	57.00	Jan. 15
Fir., San Fran., M. ft.	29.00	31.00	Oct. 30
Common labor, hr.	55¼	56¼	Dec. 25







Waterworks

PROPOSED WORK

N. J., Margate—See "Sewers."

Pa., Phila.—See "Bids Received."

N. C., Raleigh—See "Unclassified."

La., Jonesville—Election Jan. 27, $40,000 bonds for waterworks and electric light systems. F. P. Joseph, Glenmora, consult. engr.

O., Cleveland—Takes bids in spring 11,000 ft. 24 in. steel or c.i. main in Clifton Blvd. from Warren Rd. to Rocky River, $157,000; 7,980 ft. 36 in. steel or c.i. main in Ridge Rd. from Memphis Ave. to Brookpark, Sect. 4. $170,000. A. V. Ruggles, City Hall, engr.

O., Cleveland — Takes bids in summer new brick, steel and concrete centrifugal pumping station, $400,000; 12,250 ft. 48 in. raw mains from Kirtland Station to Superior Ave. and Ansel Rd., $362,500; 15,110 ft. 36 in. low service main from Division Station, West 117th St., $325,000. A. V. Ruggles, City Hall, engr.

Ill., Highland—Voted $175,000 bonds for waterworks, of which $50,000 will purchase property and $125,000 for plant, pumps, tank on tower, distribution system, etc. C. E. Wilson, Marion, engr. L. Day, 34 East Grand Ave., St. Louis, Mo., consult. engr.

Mo., Clayton—See "Streets and Roads."

Mo., Higginsville—Soon takes bids two 500 g.p.m. at 40 ft. head, 10 hp. motor driven additional pumps for waterworks.

Mo., St. Louis—Retained H. G. Study of Study & Farrar, archts., Arcade Bldg., to supervise plans for large pumping station, coagulating and filter plants, head house, store rooms, boiler and gate houses, etc., at Howards Bend, on Missouri River. $750,000.

Tex., Amarillo—Election soon $1,750,000 bonds waterworks improvements. H. B. Jones, city engr.

Tex., Comanche—Making plans waterworks improvements, incl. reservoir. $70,000 bonds voted. J. R. Eaves, mayor. Engineer not announced. J. R. Eaves, mayor. Noted Dec. 18.

Okla., McAlester—Takes bids in February, approximately 36,800 ft. 6- to 10-in. c.i. mains, building, fire truck, etc. $85,000. F. Frasier, McAlester, engr. Noted Jan. 8.

Okla., Morrison—Election Jan. 27, $27,000 bonds, complete new waterworks, incl. well, tank, pump, valves, mains and hydrants. H. G. Olmsted, 2230 West 18th St., Oklahoma City, engr. Noted Sept. 25.

Okla., Okmulgee — Making surveys and plans 15 mi. 24 in. pipe line, receiving reservoir, extensions to distribution system, etc. $1,500,000. Burns & McDonnell Eng Co., Interstate Bldg., Kansas City, Mo., engrs.

Waterworks (Continued)

Okla., Wewoka—Election Jan. 27, $150,000 bonds for supply lines and reservoir. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Ariz., Flagstaff—Making plans and takes bids in March, 18 mi. gravity flow line, 50 m.g. concrete reservoir and 5 mi. distribution system. $475,000 bonds voted. Burns & McDonnell Eng. Co., 415 Marsh-Strong Bldg., Los Angeles, consult. engrs. Noted Nov. 20.

Wash., Aberdeen — Election Mar. 24, $700,000 bonds extension to Wishkah water system, incl. dam and power house on Wynooche River, pumping plant on Larson Creek and 2 mi. pipe line.

Wash., Everett — M. Chase, superv. hydraulics, granted city permit to appropriate 50 cu.ft. water from Sultan River, to use for water supply. $800,000.

Calif., Santa Barbara—Plans to appropriate $30,000 to purchase watermains. G. D. Morrison, city engr.

Calif., Vallejo—Made plans 22 mi. probably 24 in. diam. riveted or combination steel, wood and concrete pipe line for Gordon Valley municipal water project. A. Kempkey, Hobart Bldg., San Francisco, engr. Noted Sept. 18 under "Unclassified."

Ont., St. Catharines—Takes bids in about 3 weeks, concrete and brick, filtration plant, capacity 2 m.g. per day. $150,000. A. Milne, city engr.

Ont., Toronto — Plans duplicate waterworks plant with 70 m.g. capacity per day, incl. one or two 72 in. steel intakes, 3,000 ft. long, 3 stage centrifugal pumps, steam turbines, boilers, stokers, coal handling, chlorination plant, filters, distribution mains, pumphouse, concrete, brick and steel reservoir. $14,000,000. R. C. Harris, city engr.

Ont., Waterford—Plans waterworks extension. $50,000 bonds voted. Prices wanted on materials. James, Proctor & Refern, 36 Toronto St., Toronto, engr.

BIDS DESIRED

Mass., Clinton—Feb. 24, at office Water Comrs., steel stand pipe. Parker, Bateman & Chase, civil engrs.; adv. E. N.-R. Jan. 22.

R. I., Providence—Feb. 11, at office Water Supply Bd., City Hall, steel pipe line with connections and appurtenances, about 5 mi. southwest of here. F. E. Winsor, 661 Westminster St., ch. engr.; adv. E. N.-R. Jan. 22.

New York—Feb. 3, by Bd. Water Supply, Municipal Bldg., Park Row, Centre and Chamber Sts., New York City, constructing Sect. 2 of Williamsburg conduit, a portion of city conduits of Catskill Aqueduct, in Brooklyn and Queens Boros, Contr. 218, G. J. Gillespie, pres.; adv. E. N.-R. Jan. 22.

N. Y., Brooklyn — Jan. 26, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bedford, Narrows, 21st, L, M and O Aves., 76th and East 2nd Sts.

Pa., Phila.—Jan. 27, by Dept. Pub. Wks., Bureau Water, 1,000 tons filter gravel and 1,000 tons filter sand, Contr. 734; 7,500 lin. ft. 36 in. steel pipe, 150 lin.ft. 30- to 36-in. c.i. pipe, 25 lin.ft. 30- to 36-in. c.i. specials, three 6 in., one 30 in., five 24 in. and two 20 in. stop valves, etc., Contr. 735. G. W. Biles, dir.

N. C., Cary—Jan. 30, by W. H. Atkins, mayor and Bd. Aldermen, tower and tank, 3 mi. c.i. water pipe and 2½ mi. sewers. G. C. White & Co., Durham, engrs.

N. C., Siler City—Jan. 30, by J. S. Wrenn, mayor, and Bd. Aldermen, 200,000 gal. rein.-con. reservoir, 100,000 gal. steel tank on tower, sewage disposal plant, pumphouse and pumping equipment, 15,000 ft. 6, 8 and 10 in. c.i. and 18,000 6, 8, 10 and 12 in. sewer pipe. Spoon & Lewis, Amer. Bank Bldg., Greensboro, engrs. Noted Oct. 16.

N. C., West Jefferson—Feb. 18, by Town Bd. Comrs., 2,700 ft. 2 in., 13,800 ft. 6 in. and 1,400 ft. 8 in. c.i. pipe, five 2 in. twenty-five 6 in. and seven 8 in. gate valves, 1,300 lb. c.i. specials, two 150,000 gal. concrete reservoirs, etc. G. H. Bishop, consult. engr. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, engrs.

Mich., Detroit—Jan. 28, by Dept. Purchases & Supplies, 710 Marquette Bldg., 1,500 tons 6 in. Class B, A. W. W. A. c.i. or 90,000 lin.ft. centrifugal pipe, and 1,500 tons 8 in. Class B, A. W. W. A. c.i. or 63,150 lin.ft. centrifugal pipe, and 1,000 tons 12 in. Class C, A. W. W. A. c.i. pipe, for Bd. Water Commissioners.

Wis., Kenosha—Jan. 30, by C. M. Osborn, city mgr., 496 tons Class B c.i. pipe, 34 tons fittings, 76 hydrants, 150 hub end valves, 1,898 pieces brass fittings, 900 curb boxes, 150 street boxes, 80 round bases for street boxes, etc.

Kan., Cuba—Jan. 27, by L. V. Opocensky, city clk., 20,436 ft. 2- to 8-in. c.i. pipe, 8,675 lb. castings, 32 gate valves and boxes, 21 fire hydrants, 50,000 gal. elevated tank, concrete reservoir, steel tower, pumping station, etc. C. A. Haskins, Finance Bldg., Kansas City, Mo., engr. Noted Dec. 18.

BIDS RECEIVED

Mass., Boston—Supply Dept., from Kennedy Valve Mfg. Co., Elmira, N. Y., for twenty-four 8 in. gate valves $131.28 each, and twelve 12 in. gate valves $221.13 each.

Pa., Phila. — Dept. Pub. Wks., Bureau Water, 125 tons straight 16 in. c.i. pipe and 5 tons 16 in. c.i. specials, Contr. 724, from J. J. McHugh, 1617 Race St., $21,986; 3,400 tons 6- to 12-in. c.i. pipe, and 320 tons c.i. specials, etc., Contr. 732, from P. and A. J. Ellis, 5724 North Marshall St., $427,680; rejected bids 50,000 lbs. pig lead, Contr. 733. Noted Jan. 8.

Md., Baltimore — Bd. Awards, trench excav. for Water Dept., in North and Northeast Dist., from M. L. Quinn, 5308 York Rd., $28,470; in Northwest Dist., from M. and J. B. McHugh, 4105 Bellview Ave. $76,850; in Western and Southern Dist., from P. G. Ligon, Brighton, $50,075.

D. C., Wash.—Dist. Comr., first high pipe line (a) c.i. pipe (b) concrete pipe, from McLean Contg. Co., Fidelity Bldg., Baltimore, Md., (1a) $1.48 (2a) $3 (3a) $24 (4a) $8.67; from Lock Joint Pipe Co., Ampere, N. J., (1b) $1.40 (2b) $4 (3b) $18 (4b) $5.

Wis., Milwaukee—Central Bd. Purchases, Jan. 14, from Chapman Valve Mfg. Co., 111 West Washington St., Chicago, Ill., gate valves ten 4 in. at $16.25 each, three hundred and fifty 6 in. $26, one hundred and fifty 8 in. $38.75, and twenty-five 12 in. $77, also tapping valves, fifty 2 in. $19.65 each, twenty-five 3 in. $24.55, twenty-five 4 in. $30.25, and fifty 6 in. $44.60. Noted Jan. 8.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 83,000 ft. 60 in. welded or lockbar pipe or 62 in. riveted pipe laid in place, 3,000 lin.ft. 48 in. welded or lockbar pipe or 49 in. riveted pipe laid in place, 200,000 cu. yd. earth excav., 1,500 cu.yd. concrete, miscellaneous gate, blowoff and air valves, from B. Hays, Inc., Detroit, Mich., $1,800,495. Engrs. est. $1,991,000.

Calif., Newport Beach — City Trustees, Jan. 5, 20,465 ft. 6 in. Class B, and 30,634 ft. 6 in. Class C c.i. pipe, 8- to 18-in. c.i. pipe, 64 tons c.i. special fittings, one hundred twenty-seven 5 in. fire hydrants, 145,000 gal. reservoir, pumping plant, two 199 hp. Diesel engines, 2,800 g.p.m. 3 stage centrifugal pumps, etc., from C. Fisher, Chapman Bldg., Los Angeles, $404,885.

CONTRACTS AWARDED

O., Cleveland—For steel mains in Ridge and Pearl Rds., to D. Pfahl, Berea Rd. $110,693 and $67,748 respectively. Noted Dec. 18.

Mich., Detroit—Bd. Water Comrs., 1,000 tons 6 in. c.i. and 1,000 tons 8 in. Class B and 600 tons 12 in. Class C pipe to J. B. Clow & Sons, Franklin and Harrison Sts., Chicago, Ill., $46.35 per ton, 75,596 ft. 6 in. 26,325 ft. 8 in. centrifugal pipe to U. S. Cast Iron Pipe & Fdry. Co., Burlington, N. J., $0.735 and $1.0475 per ft. respectively.

Mich., Iron River—For 1,500 gal. centrifugal pump, to Allis Chalmers Mfg. Co., West Allis, Wis., $14,380.

Kan., Belpre — Waterworks, pumping equipment, pipe lines, etc., to Burt & Tripp, Hutchinson, $32,000. Noted Jan. 8.

Kan., McDonald — Tank on tower, to Omaha Steel Wks., 4803 Leavenworth St., Omaha, Neb., $6,000; pipe line, etc., to C. Robeck Constr. Co., 408 Securities Bldg., Omaha, Neb., $12,008; well pump and meter, to E. C. Archibald, Council Bluffs, Ia., $4,923; pump house, to W. W. B. Steller, St. Francis, $3,485. Noted Dec. 25.

Tex., Brownsville—Cameron Co. Water Impvt. Dist. 4, excavating 21.6 mi. ditch, 210,000 yd. excav., to J. W. Ballenger, San Benito, $24,570 plus.

Tex., Dallas—F. G. Jester, Southwestern Life Bldg., waterworks for developing 120 acres into residential district to Janes Contg. Co., Southwestern Life Bldg., $20,000.

Wash., Seattle — Bd. Pub. Wks., c.i. mains in 22nd Ave., et al., to F. Arcorace, Seattle, $25,794. Engrs. est. $27,391. Noted Jan. 15.

Wash., Seattle—Bd. Pub. Wks., 3,900 ft. 20 in. c.i. mains in West Nickerson St., et al., to V. Ramagalla, 4515 1st St. N. E., $30,713. Engrs. est. $37,276. Noted Jan. 15.

Que., Hull—Will lay 300 ft. main in St. Lawrence St., 200 ft. in Delandaudiere St., 250 ft. in Marquette St., 600 ft. in DeBienville St., and 800 ft. in Barette St., by day labor. $15,000. T. Lanctot, city engr.

Sewers

PROPOSED WORK

N. J., Margate—Plans extending sewerage and water systems, $100,000. J. Bisley, mayor. Engineer not selected.

O., Akron—Plans 2nd section of Hawkins Ave. intercepting sewer, $300,000, and Sect. 5 of Mellon Run Trunk Sewer, $150,000. W. F. Peters, serv. dir.

Ill., Highland—Plans 6- to 16-in. sanitary sewers, 2 septic tanks, etc. $75,000. C. E. Wilson, Marion, engr. L. Day, 24 East Grand Ave., St. Louis, Mo., consult. engr.

Ill., Quincy—Soon takes bids sanitary sewers for Jefferson St. Sewer Dist. $30,000. W. P. Bushnell, City Hall, engr.

Wis., Milwaukee — Budget for 1925 adopted and includes $2,000,000 bonds for sewers.

Wis., White Fish Bay — Making preliminary plans storm sewer in various streets. $60,000. T. F. Buckley, Village Hall, engr.

Minn., Hutchinson—Plans sewage disposal plant, $100,000. E. L. Higgins, city engr.

Tex., Weslaco—Election Feb. 9, $25,000 bonds sanitary sewerage system, incl. complete collecting system and disposal plant. $25,000. H. E. Bennett, Mercedes, engr.

Okla., Quinton—Defeated $47,000 bonds, new sewerage system. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 18.

Calif., Brea—Voted $60,000 bonds to finance sewer improvements. Noted Dec. 25.

Calif., Santa Barbara—Plans extending sewers in various streets. $350,000. G. D. Morrison, city engr.

Calif., Santa Monica—Plans storm drainage system in East Santa Monica Dist. and territory east of 7th St. $100,000 or more. H. R. Carter, city engr.

BIDS DESIRED

N. C., Cary—See "Waterworks."

N. C., Siler City—See "Waterworks."

O., Portsmouth — Jan. 28, by Director Pub. Serv., sanitary sewers in Dist. of Sciotoville, known as Div. A, Sewerage System. C. S. Stevenson, city engr.; adv. E. N.-R. Jan. 22.

Mich., Grand Rapids—Feb. 18, by Director Pub. Serv., City Hall, constructing Logan St. Relief Sewer Project, Contr. J-2. F. H. Locke, city mgr.; adv. E. N.-R. Jan. 22.

Mo., St. Louis—Feb. 10, by Bd. Pub. Serv., 208 City Hall, Oleatha Ave. Joint Dist. Sewer, 2,310 lin.ft. 12- to 42-in. vitr. clay or cement pipe, $17,480; Glaise Creek Dist. Sewer 15, 3,425 lin.ft. 8- to 24-in. vitr. clay pipe, etc., $14,000; Rock Creek Dist. Sewer 9, 3,895 lin.ft. 8- to 24-in. vitr. clay pipe, $16,280. W. W. Horner, city engr.

BIDS RECEIVED

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall (**e. e. means engineer's estimate**), from B. Picone & Son, 18th St., sewers in Kings Highway, 74 per cent. e.e. $152,745; from A. W. Matarazzo, sewer in East 42nd St., 72.99 per cent e.e. $7,745; Ovington Ave., 67.23 per cent e.e. $4,578, 7th Ave. 74.23 per cent e.e. $350. Noted Jan. 8.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro. Queens Subway Bldg., sewers in (1) Queens Blvd., (2) Laburnum Ave., from Necaro Co., Inc., 97 Court St., Brooklyn, (1A) $147,365; from J. Gallo, 203 Division St., Brooklyn, (1B) $138,103, (2A) $199,849; from Kennedy & Smith, 93 Amity St., Flushing, (2B) $168,793. Noted Jan. 15.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., from Anita Constr. Co., 2975 Marion Ave., sewers in Wilcox Ave. $27,819, East 233rd St. $124,387; from J. V. Timoney Constr. Co., 220 East 201st St., Hobart Ave. $2,790, East 172nd St. $25,902, Cruger Ave. $5,185, Strang Ave. $1,770, Mace Ave. $19,563; from Spadaro & Turriamo Co., 3185 East Tremont Ave., Sands Pl. $3,710, Yates Ave. $36,830; from Slack & Slack Corp., Ftele Ave., $30,468. Noted Jan. 8.

Md., Baltimore—Bd. Awards, 9,000 ft. 8- to 72-in. sewers in Dist. H-6, Contr. 70, from Aiello Constr. Co., Gough and 4th Sts., $75,411. Noted Jan. 8.

CONTRACTS AWARDED

Mich., Detroit—Dept. Pub. Wks., vitr. crock sewers in Lateral 4252, to H. Ponterelli, 3536 St. Aubin St., $29,700; Lateral 4284 to J. Brogan & Sons, Detroit, $1,530; Laterals 4280 and 4291 to A. Rossi, 1337 Brady St., $1,129 and $655 respectively.

Mich., Royal Oak—For 14,225 ft. 8 in. vitr. sewer in Lateral 45, to R. D. Baker, 1631 Elmhurst Ave., Detroit, $49,425.

Sewers (Continued)

Wis., Madison—H. C. Buser, city clerk, force mains for new sewage disposal plant, to J. R. Cullinore, 618 West Dayton St., $87,000.

Okl., Oklahoma City—See "Streets and Roads."

Calif., Los Angeles—Cement sewer in Central Ave. between Florence and Manchester Sts., to F. L. Dunagan, 233 West 55th Pl., $132,000. Noted Jan. 15.

Que., Hull—Jan. 22, by T. Lanctot, city engr., 15,000 ft. main and secondary sewers in various streets. $200,064.

Waste Disposal

PROPOSED WORK

Wis., Milwaukee — Budget for 1925 adopted and includes $500,000 bonds to purchase site and construct garbage incinerator, foot of Erie St. M. C. Cutler, City Hall, engr.

BIDS RECEIVED

Minn., Minneapolis—For garbage incinerator, 210 ton daily capacity, from Goder Incinerator Co., 323 North Michigan Bldg., Chicago, Ill., $204,100. Noted Dec. 18.

Bridges

PROPOSED WORK

New York and New Jersey—States of New York and New Jersey, c/o Port Authority, 11 Bway., New York City, soon take bids 9,000 ft. bridge from Tottenville (Sta. Staten Island) N. Y. to Perth Amboy, N. J., and 7,200 ft. bridge from Howland Hook, N. Y., to Elizabeth, N. J., both 60 ft. wide, over Arthur Kill. $12,000,000. J. A. L. Waddell, 111 Bway., New York City, engr. W. H. Burr, consult. engr.

N. Y., Long Beach—Bd. Supervs. Nassau Co., Mineola, soon takes bids constructing bridge on Long Beach Rd. over Barnum Island Creek, here. $140,000.

Pennsylvania—Comrs. Centre Co. (Bellefonte), 120 ft. concrete and steel bridge, 30 ft., on Bald Eagle trail between Milesburg and Tyrone, also plans 3 smaller bridges on same road. $75,000. J. S. Spearley, pres.

Pa., Pittsburgh — Alleghany Co., c/o Dept. Pub. Wks., City County Bldg., making preliminary plans Liberty Bridge, 2,600 ft. long, 38 ft. roadway, over Monongahela River. $3,771,000. V. R. Covell, 514 Smithfield St., ch. engr. Div. Bridges.

N. C., Raleigh—See "Unclassified."

Fla., West Palm Beach—Palm Beach Co. plans election $40,000 bonds for bridge over Lake Worth in Special Road and Bridge Dist., Kelsey City, at Shermans Point. F. C. Feno, co. clk.

Wisconsin—See "Streets and Roads."

Wis., Monroe—Green Co. appropriated $48,000 for bridge work. C. J. Smith, comr.

Wis., Prairie Du Chien — See "Streets and Roads."

Minnesota — State Hy. Dept., St. Paul, plans concrete bridge over Mississippi River, on Trunk Highway 3, between Anoka and Champlin, $250,000. Eng. Dept. of State Hy. Dept., 1246 University Ave., St. Paul, engrs.

Mo., Clayton—See "Streets and Roads."

Tex., Brownsville — See "Streets and Roads."

Tex., Sanderson — See "Streets and Roads."

Tex., Waxahachie—Made plans viaduct over tracks of Missouri Kansas & Texas R.R. and Texas & Brazos Valley R.R., on Elm St. $123,000. Engineer not announced.

Okla., Baron—Adair Co. voted $55,000 bonds 4 span 180 ft. steel bridge. J. M. Page, Capitol Bldg., Oklahoma City, state highway engr. Noted Jan. 8.

Calif., Santa Monica—Plans 80 ft. concrete bridge, 41 ft., etc., over Pacific Electric Ry. tracks in Santa Monica Canyon. H. B. Carter, city engr.

Que., Montmorency — Dept. Provincial Highways, Quebec, soon takes bids 1 span 300 ft. steel and concrete bridge over Montmorency River. $300,000. I. E. Vallee, Quebec, ch. engr.

BIDS DESIRED

N. J., Hackensack—Feb. 9, by State Hy. Dept., Trenton, repairing and reconstructing center timber fender, 200 ft. long, 40 ft. wide, and north end of east timber fender, 92 ft. long, 10 ft. wide, incl. removing existing masonry, pier, etc., of bridge over Hackensack River, on Lincoln Highway, State Route 1, Hudson Co. W. G. Sloan, Trenton, state engr.; adv. E. N.-R. Jan. 22. Noted Dec. 4.

North Carolina—Jan. 27, by State Hy. Comn., Raleigh, rein-con. bridges and culverts on State Project 284, Wayne Co., $38,000; and on State Project 642, Iredell Co., $52,000. C. M. Upham, Raleigh, engr.

Miss., Summer—Feb. 2, by Bd. Supervs. Tallahatchie Co., two 60 ft. steel span bridge. H. L. French, Summer, engr.

Louisiana—See "Streets and Roads."

Missouri—Jan. 31, by State Hy. Comn., Jefferson City, 24 rein.-con. slab spans, etc., over overflow Medicine Creek, one 80 ft. steel truss span and four 20 ft. I-beam spans, etc., over Medicine Creek, one 80 ft. steel truss span and four 30 ft. I-beams, etc., over Medicine Creek D. D., all Livingston Co.; three 18 ft. rein.-con. slab spans, etc., over Culp Branch, and three 35 ft. rein.-con. deck girder spans, etc., over Piney Creek, both Oregon Co.; four 24 ft. and three 20 ft. rein.-con. slab spans, etc., over stream, Shannon Co.; one 80 ft. steel truss span, etc., over Sugar Creek, Lewis Co. B. H. Piepmeier, ch. engr.

Missouri—Jan. 31, by State Hy. Dept., Jefferson City, two 10 ft. rein.-con. slab spans, etc. over stream, one 20 ft. rein.-con. arch span, 20 ft. roadway, etc. over Ervin Creek, and one 80 ft. rein.-con. arch span, 20 ft. roadway, over Barren Creek, all on Bolivar-Stockton Rd., Route 13, Sect. 52, Polk Co.; one 130 ft. steel truss span, 20 ft. roadway, etc., over Bear Creek, on Bolivar-Stockton Rd., Route 66, Cedar Co. B. H. Piepmeier, ch. engr.

Kan., Wichita—Jan. 26, by City Clerk, for 5 span rein.-con. deck girder bridge, 40 ft. roadway, two 12 ft. walks, solid piers, gravity abutments, over Little River on Murdock Ave., $90,000. P. L. Brockway, City Hall, engr. Noted Nov. 20.

Tex., Baird—See "Streets and Roads."

Tex., Brownsville — See "Streets and Roads."

Tex., Jacksboro—See "Streets and Roads."

California—Feb. 9, by State Hy. Comn., Sacramento, grading 16.3 mi. road between Arroyo Sequit and Las Flores Canyon, Los Angeles Co. R. M. Morton, state highway engr.

> ***From Seattle***
>
> **"Building permits in first eleven months of 1924 totaled $28,000,000. Authorities state that 1925 will exceed this figure."**
>
> ***Construction News Correspondent***

BIDS RECEIVED

N. Y., New York—W. W. Mills, comr. Plants & Structures, Municipal Bldg., Jan. 20, constructing Roosevelt Ave. Bridge over Flushing River, from A. MacMullen Co., Howard Beach, $2,625,000. Noted Jan. 1.

Tex., Sanderson — See "Streets and Roads."

CONTRACTS AWARDED

Pennsylvania — Allegheny Co. (Pittsburgh), bridge over Charters Creek, between Pittsburgh and McKees Rocks, to W. S. Rae, Oliver Bldg., Pittsburgh, $114,621. Engrs. est. $125,000.

Alabama—State Hy. Comn., Montgomery, several small concrete bridges on Birmingham-Montgomery Rd., Chilton Co., to C. B. Cox, Clanton, $52,440. Engrs. est. $53,000. Noted Dec. 18.

Ia., Davenport—Scott Co. Primary Bridge Project 293, 1 arch span, to Federal Bridge Co., 1002 B. T. Bldg., Des Moines, $6,761; 1 arch span and 8 culverts, to W. D. Phelan & Co., Davenport, $13,412; 1 girder and 1 I-beam span, to H. Gertz, Eldridge, $8,695.

Kan., Lyndon—See "Streets and Roads."

Texas—See "Streets and Roads."

Wash., Seattle — King Co., bridge over Stuck River, to J. H. Collins & Co., Spokane, $55,609.

Ore., Portland — Multnomah Co., Sellwood Bridge and approaches over Willamette River, to Gilpin Constr. Co., Worcester Bldg., $445,570. Noted Dec. 11.

Calif., Los Angeles—Bd. Pub. Wks., eight 34 ft. rein.-con. span bridge over Pacific Electric Ry. tracks at State St., to Kinne & Waterhouse, H. W. Hellman Bldg., $46,539. Noted Jan. 15.

B. C., Marpole—Provincial Government, Victoria, constructing one 134 ft. and one 154 ft. swing span bridges over north arm of Fraser River, here, to Hamilton Bridge Co., Hamilton, $42,875. Engrs. est. $45,000.

Dams

PROPOSED WORK

Conn., Rainbow—See "Buildings—Industrial."

N. C., North Wilkesboro—See "Unclassified."

N. C., Saluda—See "Unclassified."

Tex., Sherman—T. G. Blocker & R. M. Carter (owners), and O. J. S. Ellington, engr., Sherman, soon take bids 660 ft. earth dam to make 22 acre lake, beach, club house and golf links. $50,000.

Wash., Aberdeen—See "Waterworks."

Railways

PROPOSED WORK

Texas—Missouri, Kansas & Texas R.R., St. Louis, Mo., making plans enlarging yards and roundhouse, etc., at Katy Yards in Fort Worth, Tex. $1,000,000. F. Ringer, c/o owner, ch. engr. K. H. Hanger, Dallas, engr. M. W. This corrects report in Jan. 8 issue.

Ontario — Canadian Natl. R.R., New Union Sta., Toronto, making surveys 40 mi. road from northern Treouscon line to Rouyn gold fields, of Quebec. $2,000,000. T. T. Irving, ch. engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Miss., Charleston—Patterson Bayou D. D., c/o M. E. Miller, Charleston, takes bids about Feb. 5, 540,000 cu.yd. levee work and 80,000 cu.yd. drainage canals for protection of 25,000 acres. $167,000. H. L. French, Summer, engr. A. L. Dabney, 2245 Court St., Memphis, Tenn., consult. engr. Noted Nov. 6.

Miss., Charleston—Tillatoba D. D., R. Denman, atty., Charleston, takes bids about Feb. 15, system drainage canals, laterals, levees, etc., for protection of 10,000 acres. H. L. French, Summer, engr., A. L. Dabney, 2245 Court St., Memphis, Tenn., consult. engr. Noted Jan. 15.

Tex., Edinburg — Hidalgo Co. making plans and takes bids probably in March flood control along Sardinas Resaca. $1,000,000. Devine & Pharr, c/o Courthouse, engrs.

Tex., McAllen—I. G. Cook, pres. Water Impvt. Dist. 3, Hidalgo Co., and E. M. Card, engr., c/o owner, soon take bids main and lateral open ditches, also some tile drains for water improvements. $50,000.

Calif., San Mateo—Peralta Cement Co., 110 Sutter St., San Francisco, plans 4,000,000 cu.yd. dredging, to depth 17 ft. below mean low water, 3 mi. northeast of here.

BIDS DESIRED

Calif., Martinez — Feb. 2, by Supervs. Contra Costa Co., improving 2 mi. O'Hara Ave. near Oakley, 7,600 cu.yd. embankment, 12,000 cu.yd. overhaul. R. R. Arnold, Martinez, co. surv.

Calif., San Diego—Feb. 4, by W. H. Cameron, city purch. agt., 850,000 cu.yd. dredging from bottom of bay and filling back of bulkhead and constructing 3470 lin. ft. concrete bulkhead.

CONTRACTS AWARDED

Mo., New Madrid—New Madrid Dist. 35, approximately 52,959 cu.yd. excav., to F. M. Robbins, New Madrid. Noted Dec. 18.

Calif., Los Angeles—Supervs. Los Angeles Co., to J. Phillips, 637 Santa Ray Ave., drainage system in Drainage Impvt. Dist. 9, 41,865 cu.yd. excav. at $0.40 per cu.yd., 6,750 ft. 8 in. drain tile $1.05, 840 ft. 12 in. drain tile $1.15, 80 ft. 24 in. rein.-con. pipe $3.50, etc. Noted Jan. 15.

Calif., Martinez—See "Unclassified."

Streets and Roads

PROPOSED WORK

Mass., Boston—City Planning Bd., City Hall, plans widening Exchange St. $1,500,000. F. H. Fay, chn.

Mass., Medford—Willard-Welsh Realty Co., 209 Washington St., Boston, making plans and laying out 3,000 ft. new boulevard, also constructing side streets, sidewalks and curbings, etc. $100,000. A. C. Peters, 19 Pearl St., Boston, engr.

Mass., Wakefield—Bd. Alderman, A. L. Gardner, chn., plans rebuilding Salem St., macadam, $25,000.

Streets and Roads (Continued)

N. C., Ahoskie—Sold $65,000 bonds for paving various streets. L. C. Williams, Ahoskie, mayor.

N. C., Raleigh—See "Unclassified."

Fla., Davenport — Plans paving with sheet asphalt, alternate proposals, Chipalo Ave. $25,000, Suwanee Ave. $25,000, Escambia Ave. $32,067, Maple Ave. $25,000, Cypress Ave. $25,000; Miami Ave. $50,000, Magnolia and portion of Pine St. $30,000, Orange and Bay Sts. $30,000, Bay and Lemon Sts. $35,000, Palmetto Ave. $25,000, Allapoha Ave. $25,000, North Blvd. and Pine St. $30,000, Holly Hill Dr. $25,000, portion of Dixie Highway $25,000, improving Miami, Kissimmee, Chipola, Suwanee, Escambia, Allapoha and Manatee Aves., also Dixie Highway, $28,599; sidewalks on Lemon, Palmetto, Pine, Magnolia, Palm, Orange, Bay, Maple and Cypress Sts., South, North and East Blvds., $55,000. E. V. Camp and associates, Hill Bldg., Jacksonville, engrs.

Fla., West Palm Beach—Palm Beach Co. plans election $100,000 bonds paving, shell or rock and oiled surfacing roads in Special Road and Bridge Dist., Kelsey City-Roads. $100,000. F. C. Feno, co. clk.

Miss., Jackson—Hinds Co. election Jan. 29, $2,000,000 bonds for road work.

La., Baton Rouge — Election Feb. 12, $200,000 bonds, hard-surfacing drive through new City Park.

Tenn., Nashville — Plans surfacing, mostly asphalt on macadam, Fatherland St., 3rd Ave. S., 18th Ave. S., 13th Ave. N., Wedgewood and Harding Aves., 17th Ave. N., from Church St. to Harding Ave., and 17th Ave. N. from Harding Ave. to Jefferson St. W. W. Southgate, City Hall, engr.

Tenn., Nashville—Plans election $500,000 bonds for street and sewer improvements in suburbs soon annexed to city. W. W. Southgate, City Hall, engr.

O., Canton—Stark Co. plans improving 4 mi. Paris-Harrisburg Rd. N., 16 ft., $100,000. A. M. Wise, co. engr.

O., Canton—Stark Co. plans concrete paving 1.25 mi. Salem-Deerfield Rd., 18 ft. $50,000. A. M. Wise, co. engr.

O., Cleveland—Cuyahoga Co., plans repairing brick pavement on 7 mi. West Lake Rd., $90,000; brick paving 2.5 mi. Bliss Rd., $299,000; concrete paving 2 mi. Akins Rd., $83,200, and 1 mi. Bishop Rd. $58,700. F. Lander, Court House, engr.

O., Cleveland—Cuyahoga Co. plans brick paving 1 mi. Chardon Rd. $142,500, and 1¼ mi. East 185th St. $266,000; macadam paving 2 mi. Edgerton Rd., $90,000; paving 4 mi. Cedar Rd., 20 ft., $322,200. F. Lander, Court House, engr.

O., Cuyahoga Falls—Takes bids in spring improving 18th St. $25,000, and ¾ mi. Highbridge Rd. $30,000, both 30 ft. G. Ranney, Cuyahoga Falls, engr.

O., Lisbon—Columbiana Co., takes bids in spring brick paving 1.25 mi. Lisbon-Elkton Rd. $25,000; improving 4.25 mi. Wellsville-Salineville Rd. $120,000, 2 mi. North Georgetown-Salem Rd. $27,500, 2 mi. East Liverpool-Youngstown Rd., known as I. C. H. 502 $60,000, and Rogers-Clarkson Highway $45,000. L. C. Kirk, Lisbon, engr.

O., Zanesville — Muskingum Co. plans improving 2 mi. Marysville Pike, 16 ft., $50,000-$60,000, and 6 mi. South River Rd., $150,000. B. Connar, Zanesville, engr.

Ill., Bridgeport—Making preliminary plans grading, curbing and concrete surfacing various streets. $80,000. E. F. Mail, Robinson, engr.

Ill., Oblong—Making preliminary plans grading, curbing and concrete surfacing various streets. $80,000. E. F. Mail, Robinson, engr.

Ill., West Chicago—See "Bids Desired."

Wisconsin—State Hy. Comn., Madison, **(F. A. P. means Federal Aid Project)**, improving Plymouth-Chilton Rd., F. A. P. 346-A, Calumet Co., Stanley-Thorp Rd., F. A. P. 1010, Chippewa Co., and Shawano-Bonduel Rd., F. A. P. 345-A, Shawano Co.; crushed stone surfacing 9.4 mi. Boscobel-Fennimore-Lancaster-Dubuque Rd., F. A. P. 376-A, Grant Co.; shale and gravel surfacing 2.6 mi. Middleton-Black Earth-Spring Green Rd., F. A. P. 410-A, Iowa Co. and New Lisbon-Sparta Rd., F. A. P. 325-B, Monroe Co.; concrete surfacing 1.2 mi. Winona Dump Rd., F. A. P. 340-A, Buffalo Co., 1.23 mi. Menomonie-Elk Mound-Eau Claire Rd., F. A. P. 381-B, Chippewa Co., 0.93 mi. Thorp-Stanley Rd., F. A. P. 301, and 2.35 mi. Stanley-Owen-Abbotsford Rd., F. A. P. 403-A, both Clark Co., Menomonie-Elk Mound-Eau Claire Rd., F. A. P. 381-A, Dunn Co., 6.27 mi. Menomonie-Elk Mound-Eau Claire Rd., F. A. P. 381-C, Eau Claire Co., 3 mi. Fond du Lac-Oshkosh Rd., F. A. P. 364-A, Fond du Lac Co., 2.75 mi. Shullsburg-Monroe Rd., F. A. P. 374-B, Green Co., Marshfield-Ashland Rd. F. A. P. 224-S, Marathon Co., Atwater Rd. and bridge, F. A. P. 349-B, Milwaukee Co., Point of Rocks and Sumpter Hill, F. A. P. 355 and 356, Sauk Co., Milwaukee-Richfield-Fond du Lac Rd., F. A. P. 389-A, Washington Co., and Milwaukee-West Bend Rd., F. A. P. 352-A, Waukesha Co.; gravel surfacing 7 mi. St. Croix Falls-Frederic Rd., F. A. P. 407-A, Burnett Co., Black River Falls-Alma Center Rd., F. A. P. 1012, and 15.6 mi. Black River Falls-Humbird-Augusta-Eau Claire Rd., F. A. P. 395-A, both Jackson Co., 7 mi. Antigo-Eagle River Rd., F. A. P. 380-A, Oneida Co., 1.93 mi. Durand-Ellsworth (Lowrie Hill) Rd., F. A. P. 401-A, and 6 mi. Prentice-Ladysmith Rd., F. A. P. 371-A, both Pierce Co., 1.5 mi. Hudson-River Falls-Ellsworth Rd., F. A. P. 399-A, St. Croix Co., Ashland-Hayward-Trego Rd., F. A. P. 406-A, Sawyer Co., 1 mi. Shawano-Antigo Rd., F. A. P. 386-A, Shawano Co., 2.25 mi. Ashland-Hayward-Trego Rd., F. A. P. 406-B, Bayfield Co., 3 mi. Spring Green-Wauzeka-Prairie du Chien Rd., F. A. P. 416-A, Crawford Co., and project on S. T. H. 33, Columbia Co. Total allotment $2,077,100. J. T. Donaghey, highway engr.

Wis., Janesville — Making plans paving 5.5 mi. Pease Court, Prospect, 5th, Garfield and St. Lawrence Aves., Madison, North Terrace, Racine, Galena, South High, Walker, Glen, North 1st, Caroline, Augusta, East, South Wisconsin, South 2nd, South 3rd, Racine, Logan, Wheeler and South Jackson Sts. C. V. Kerch, City Hall, engr.

Wis., La Crosse — Bd. Pub. Wks., W. Fries, secy., soon takes bids paving 30,000 sq.yd. Monitor, Redfield, 15th and 16th Sts., rein.-con., brick, vibrolithic, asphaltic, concrete or asphaltic macadam. C. C. Congdon, City Hall, engr.

Wis., Monroe—Green Co. appropriated $214,999 for county and state road work. C. J. Smith, comr.

Wis., Prairie Du Chien—Crawford Co. appropriated $69,377 for county and state road work, and $16,033 for county and state aid bridge construction. J. N. Campbell, Bell Center, comr.

Wis., Racine—Plans one course concrete paving West and Harriet Sts., Clayton and Roe Aves., Frank Ave. between end of present pavement to Jefferson St. and Frank Ave. between West 6th and terminal. To exceed $25,000. J. W. Beaugrand, City Hall, engr.

Minn., Austin—Mower Co. takes bids in February, gravel surfacing 54 mi. various roads. $84,000. A. C. White, Austin, co. engr.

Kan., Oswego—See "Contracts Awarded."

Missouri — State Hy. Dept., Jefferson City, rejected bids Dec. 19, grading and asphaltic concrete surfacing 8.113 mi. St. Joseph-Grayson Rd., Clinton Co.; 18 ft. asphaltic concrete surfacing 0.423 mi. road from Trenton east and west, Grundy Co.; 18 ft. penetration macadam surfacing 5.69 mi. St. Joseph-Grayson Rd., Clinton Co., 2.423 mi. road from Trenton east and west, Grundy Co.; 18 ft. rock asphalt surfacing 1.715 mi. St. Joseph-Grayson Rd., Clinton Co., and 2.423 mi. road from Trenton east and west, Grundy Co. B. H. Piepmeier, ch. engr. Noted Jan. 8.

Mo., Clayton—E. Davis Realty & Mortgage Co., 1101 Locust St., St. Louis, making preliminary plans constructing streets, alleys, etc., also install water, sewer and gas mains in 120 acre tract on Clayton North and South Rds., etc. $400,000.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids concrete paving and granite curbing 4,135 sq.yd. Nagel St., $23,800, 3,910 sq.yd. Spring St., $18,200; bitulithic paving and granite curbing 3,105 sq. yd. San Francisco St., $20,800; asphalt paving and granite curbing 9,365 sq.yd. Eichelberger St., $64,000. W. W. Horner, city engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, takes bids in March, bitulithic paving 10,450 sq.yd. De Tonty St., $50,900, and 4,200 sq.yd. Lake St., $19,000; asphaltic concrete paving and concrete curbing 615 sq.yd. Pennsylvania St., $5,800, and 1,515 sq.yd. Frederick St., $8,100; asphaltic concrete paving and granite curbing 2,940 sq. yd. Robert St., $21,700; brick paving, granite curbing 2,040 sq.yd. West Park St., $11,600; Willite paving and granite curbing 2,910 sq.yd. Euclid St., $23,500; asphaltic concrete paving and granite curbing 2,030 sq.yd. Concord St., $13,100. W. W. Horner, city engr.

Tex., Alice—Jim Wells Co. plans hard surfacing State Highway 12. State Hy. Dept. granted application for $800,000 allotment. Address L. W. Mantel, Alice, Co. engr.

Tex., Anson—Jones Co. making plans grading and permanent paving 15 mi. Stanford-Albany Rd., 18 ft. $353,500. J. W. Puckett, Stamford, co. engr.

Tex., Brownsville—Cameron Co. making plans grading and concrete surfacing 7 mi. State Highway 12, 16 ft. $50,000. W. O. Washington, Brownsville, co. engr.

Tex., Brownsville—Cameron Co. making plans grading, concrete surfacing and bridging lateral roads leading into Highway 12. $50,000. W. O. Washington, Brownsville, engr.

Tex., Cameron—Milam Co. making plans gravel surfacing 7.2 mi. State Highway 95, Federal Aid Project 359, 18 ft. $50,000. A. F. Mitchell, Cameron, engr.

Tex., Corsicana—Navarro Co. plans election $6,000,000 bonds, hard surfacing roads radiating from here. B. W. George, Corsicana, co. judge. Engineer not selected.

Tex., Houston—H. L. Washburn, and Travis Co., soon takes bids 20 ft. concrete road on Federal Aid Project 466-A and D, $250,000. Howe & Wise, 1st Natl. Bank Bldg., engrs.

Tex., Post City—R. N. Smith, city secy., takes bids about March 1, paving various streets. $50,000 bonds voted. Elrod Eng. Co., 3124 Main St., Dallas, engrs. Noted Jan. 1.

Tex., Sanderson — Terrell Co. making plans grading and bridging 7.77 mi. State Highway 3, extending west from Valverde Co. line. $78,500. J. Stovall, Sanderson, engr.

Okla., Kingfisher—Kingfisher Co. election Feb. 24, $650,000 bonds for roads. Noted Dec. 11.

Okla., Pauls Valley—Garvin Co. voted $720,000 bonds, for 100 mi. roads, 30 ft. J. M. Page, Capitol Bldg., Oklahoma City, engr. Noted Dec. 25.

Okla., Oklahoma City—M. Peshek, city clk., takes bids about Feb. 3, grading, paving, curbing, etc., Ave. E from Robinson St. to Shields Blvd. B. M. Hart, City Hall, engr.

Okla., Wilburton—Plans grading and concrete surfacing 10,300 sq.yd. Main St. $35,300. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Los Angeles — Los Angeles Co. plans repairing streets in San Fernando Valley Section. $1,000,000 available. H. A. Van Norman, city engr.

Calif., Mountain View—Made plans improving various streets, 495,800 sq.ft. 1.5 in. Warrenite-bituminous on 2.5 in. asphaltic concrete, 15,351 cu.yd. grading, etc. C. C. Kennedy, Call Bldg., San Francisco, engr. Noted Oct. 23.

Calif., Oroville—Plans paving streets in Park Addition. To exceed $25,000. S. J. Norris, city engr.

Calif., Pasadena—Plans election $850,000 bonds improving streets in Linda Vista Dist.

Calif., Stockton—San Joaquin Co. plans constructing and repairing 52 mi. roads in Dists. 1, 2 and 3. $325,000. F. E. Quail, Stockton, co. surv.

Ont., Sandwich — Essex Co. plans concrete paving 100,000 sq.yd. Talbot Rd. $250,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Toronto—York Twp., 40 Jarvis St., plans extending Dunraven Dr., Aileen and Kersdale Aves., $3,000; grading Morningside Ave. $2,600; widening and grading Scarlett Rd. $17,000; concrete sidewalks on St. Johns Rd. $2,525. F. B. Goldike, 40 Jarvis St., engr.

BIDS DESIRED

N. Y., Brooklyn — Jan. 28, by J. A. Guider, boro pres., Boro Hall, asphalt repaving Gold St., New York and Ridgewood Aves.

N. Y., New York—Jan. 29, by J. Miller, pres. Manhattan Boro., widening and wood block repaving Columbus Circle, 1st Ave. and Wooster St.

N. Y., Peekskill—Feb. 2, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading and improving State Parkway, here. J. Downer, ch. engr.; adv. E. N.-R. Jan. 22.

N. J., Trenton—Jan. 27, by Bd. Freeholders Mercer Co., 50,000 gal. tar cold patch road material. H. F. Harris, Court House, engr.

Pennsylvania—Feb. 6 and 7, by State Dept. Hys., Harrisburg, bituminous on concrete or rein.-con. surfacing 132 mi., 22 Projects in 18 counties. W. H. Connell, engineering executive and deputy secy. of highways; adv. E. N.-R. Jan. 22.

North Carolina—Jan. 27, by State Hy. Comn., Raleigh, grading and concrete or asphalt paving 11.14 mi. State Project 642, Iredell Co., $397,000; also 13.8 mi. State Project 284, Wayne Co., $447,000. C. M. Upham, Raleigh, Engr.

Miss., Philadelphia — Feb. 3 (extended date), by Bd. Supervs. Neshoba Co. at office Chancery Clerk, grading, bridging, sand-clay surfacing, etc., 6.2 mi. Philadelphia-DeKalb Rd. H. C. Dietzer, Jackson, engr. Noted Dec. 18.

Louisiana—Feb. 10, at office State Hy. Dept., Reymond Bldg., Baton Rouge, furnishing gravel and surfacing 4.73 mi. State Project 436 A, Monroe-Jonesboro Highway, Ouachita Parish. W. B. Roberts, state engr.

Streets and Roads (Continued)

Louisiana—Feb. 12, at office State Hy. Dept., Reymond Bldg., Baton Rouge, furnishing gravel and surfacing 2.92 mi. State Project 431, Robelin-Many Highway, 2.52 mi. Sect. A1, and 3.79 mi. Sect. D, Natchitoches-Leesville Highway, State Project 315, 7.2 mi. State Project 425 A, Campti-Goldonna Highway; and constructing Black Lake Bridge, 400 ft. long, on State Project 425 B, all in Natchitoches Parish. W. B. Roberts, state engr.

Ind., Peru — Feb. 24, by City Council, paving approximately 33,910 sq.yd., North Miami, Bayless, West 7th, Miami, Canal, East 2nd and Wabash Sts. P. Shadlinger, city civil engr.

Michigan—Jan. 22, by State Hy. Dept., at office Comrs. Monroe Co., Monroe, grading 26,624 cu.yd. Federal Aid Project 73, Sect. G. G. C. Dillman, Lansing, ch. engr.

Ill., Quincy—Feb. 10 (extended date), by Bd. Local Impvts., 84,345 sq.yd. asphalt and concrete paving. W. P. Bushnell, city engr.; adv. E. N.-R. Jan. 22. Noted Jan. 8.

Ill., St. Charles—Jan. 27, by City Clerk in Council Chambers, City Hall, grading, concrete surfacing, etc., 23,000 sq.yd. Anderson Blvd., 3rd St. Project. Wells Eng. Co., Geneva, engrs.

Ill., Urbana—Feb. 4, by Township Hy. Comrs. Champaign Co., 2½ m.g. road oil. Separate bids for oil and spreading of same. Former bids rejected. Noted Jan. 8.

Ill., West Chicago — Jan. 28, by City Clerk, grading and vibrolithic concrete surfacing, etc., 35,000 sq.yd. various streets, also made plans vibrolithic surfacing 30,000 sq.yd. various streets on which bids will be taken later. Wells Eng. Co., Geneva, engrs.

N. D., Ellendale—Feb. 6, by C. C. Misfeldt, aud. Dickey Co., and State Hy. Dept., Bismarck, improving 12 mi. Federal Aid Project 211, Sect. B, 71,346 cu.yd. earth and 1,640 cu.yd. rock excav., 8,893 cu.yd. overhaul, 2,716 lin.ft. 18 in. and 340 ft. 24 in. corrugated metal or concrete pipe culverts; subgrade 4.6 mi., etc., $25,000; also 15.5 mi. Federal Aid Project 261, 113,765 cu.yd. earth and 2,000 cu.yd. rock excav., 10,443 cu.yd. overhaul, 3,354 lin.ft. 18- to 36-in. corrugated metal or concrete pipe culverts, etc., $31,000.

Missouri—Jan. 31, by State Hy. Comn., Jefferson City, grading 4.898 mi. Warrensburg-Higginsville Rd., Johnson Co., 2.936 mi. road from Savannah west, Andrew Co., 3.454 mi. St. Joseph-Chillicothe Rd., Livingston Co., 1.454 mi. road from Thayer south, Oregon Co., 1.614 mi. Summerville-Mt. View Rd., Texas Co., 4.711 mi. St. Joseph-Grayson Rd., Buchanan Co.; 12 ft. gravel surfacing 7.583 mi. road from Elsinore south, Carter Co., 2.596 mi. road from Gainesville east, Ozark Co.; 16 ft. gravel surfacing 3.864 mi. Canton-Monticello Rd., Lewis Co., 0.257 mi. road from Diehlstadt south, Scott Co.; 18 ft. penetration macadam surfacing 4.711 mi. St. Joseph-Grayson Rd., Buchanan Co.; 18 ft. asphaltic concrete surfacing 4.711 mi. St. Joseph-Grayson Rd., Buchanan Co.; 18 ft. rock asphalt surfacing 4.711 mi. St. Joseph-Grayson Rd., Buchanan Co. B. H. Piepmeier, ch. engr.

Missouri—Jan. 31, by State Hy. Dept., Jefferson City, grading 28.083 mi. roads in Clinton, Grundy, Livingston, Oregon and Shannon Counties; 12 ft. gravel surfacing 11.509 mi. roads in Cedar, Clark and Polk Counties; 18 ft. asphaltic concrete surfacing 17.14 mi. roads in Clinton and Grundy Counties; 18 ft. penetration macadam surfacing 17.13 mi. roads in Clinton and Grundy Counties; 18 ft. rock asphalt surfacing 17.14 mi. roads in Clinton and Grundy Counties. B. H. Piepmeier, ch. engr.

Mo., St. Louis — Feb. 10, by Bd. Pub. Serv., 208 City Hall, resetting curbs, asphalt on cement paving 5,155 sq.yd. Delmar Blvd. $43,600; granite curbing, asphalt on concrete paving 2,010 sq.yd. Tennessee St. $14,000, 6,625 sq.yd. Theodore St. $53,120, 1,865 sq.yd. Eastgate St. $6,725, 2,150 sq. yd. Montana St. $14,200, 2,405 sq.yd. Elmbank St. $18,600, 2,550 sq.yd. Francis St. $18,920, 1,470 sq.yd. Garner St. $11,000, 1,600 sq.yd. Bancroft St. $12,120; willite on concrete paving 8,745 sq.yd. St. Louis St. $43,200; Trinidad asphalt paving, granite curbing, etc., 2,550 sq.yd. Francis St. $18,920; brick on concrete paving, granite curbing, etc., 3,310 sq.yd. Garner St. $24,725. W. W. Horner, city engr.

Mo., St. Louis — Feb. 17, by Bd. Pub. Serv., 208 City Hall (Willite process) asphalt paving 4,870 sq.yd. 14th St. viaduct, $7,500; wood block, granite and miscellaneous brick paving, and granite sidewalks on 14th St. viaduct, $40,000. W. W. Horner, city engr.

Tex., Baird — Jan. 30, by V. Gilbert, judge Callahan Co., grading, bridging and concrete paving 8.39 mi. State Highway 1, between Clyde and Taylor Co. line, Federal Aid Project 52 E, 26 ft. $36,400. T. H. Webb, Baird, co. engr.

Tex., El Paso—Feb. 10, by E. B. McClintock, judge El Paso Co., grading 2 in. bituminous surfacing, etc., 15.62 mi. State Highway 1, Federal Aid Project 439-E, 17 and 30 ft. F. E. Wilson, El Paso, co. engr. Noted Jan. 8.

Tex., Jacksboro—Jan. 30, by H. C. McClure, judge Jack Co., grading, bridging, concrete paving 1,339 sq.yd. State Highway 25, Archer City Rd., State Aid Project 568. $55,000. G. R. Johnston, Jacksboro, engr.

Tex., San Antonio — Feb. 7, by W. F. Huston, div. engr., 201 City Hall, repairing bituminous topped highways within 40 mi. radius, also 2,000 tons or more rock asphalt for same. $126,000.

Arizona — Feb. 2, by W. C. Lefebvre, state engr., c/o Apache Co. Hy. Comn., St. Johns, grading and graveling 19,000 cu.yd. St. Johns-Springerville Highway, Federal Aid Project 68-B.

California—Feb. 9, by State Hy. Comn., Sacramento, five 30 ft. span rein.-con. girder bridge, 21 ft., over San Gorgonio Wash, Riverside Co., also concrete paving and grading approaches. R. M. Morton, state highway engr.

California—See "Bridges."

Calif., Fresno—Supervs. Fresno Co. taking bids 4 in. asphaltic concrete paving, curbing, guttering, etc., Rd. Impvt. Dist. 6, $40,000 or more; 4 in. asphaltic concrete paving, etc., Rd. Impvt. Dist. 7, $200,000 or more. A. M. Jensen, Fresno, engr. Noted Dec. 11.

Calif., Inglewood — City Council taking bids improving Centimela Ave. between Redondo and Eucalyptus Aves., 173,115 sq.ft. grading, 5,300 ft. curbs, 26,043 sq.ft. sidewalks, 131,165 sq.ft. 6 in. concrete paving, etc.

Calif., Martinez — See "Excavation, Drainage, Irrigation, Levees."

Calif., San Mateo—City Trustees taking bids improving Edgewood and Glendale Rds., 22,000 sq.ft. 4 in. concrete paving on 1.5 in. Topeka surface, 1,050 lin.ft. concrete curbs, 1,000 cu.yd. excav., etc. C. L. Dimmitt, city engr.

From Pittsburgh

"Quite a number of the industrials and steel plants are starting to run full time, the outlook for 1925 is very bright, and the unemployed list will be short."

Construction News Correspondent

BIDS RECEIVED

N. Y., Brooklyn—J. A. Guider, boro pres. Boro Hall, from Borough Asphalt Co., 1301 Metropolitan Ave., restoring and repaving various streets $50,972; from Brooklyn Alcatraz Co., 407 Hamilton Ave., curbing and paving Ave. K $10,000, East 36th St., $879, 76th St., $4,079; from Connor Bros., 629 Albany Ave., grading, curbing and flagging Lefferts Ave, $10,994; from Galco Contg. Co., 745 Dean St., East 36th St. $2,573, 62nd St. $4,126, 20th Ave. $985, 76th St. $1,252, from W. J. McHale Contg. Co., 1250 Jefferson St., Maple St. $5,429; from F. C. Kohart, Rutland Rd. $6,440; from M. J. O'Hara, 1228 Park Ave., New York City, asphalt paving 15th Ave. $1,214; from Cranford Co., 52 9th St. paving and repaving 20th Ave. $8,424. Noted Jan. 8.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Jan. 19, grading, curbing and sidewalks on Anable Ave., from Highway Impvt. & Repair Co., 501 Bloomfield Ave., Montclair, N. J., $12,564, Cypress Hills Rd., from Raniere & Soviero, $1,870, Roosevelt Ave., from Pegno Constr. Co., 380 Freeman Ave., Astoria, $29,298, Suwanee Ave., from Sicilian Asphalt Paving Co., 41 Park Row, New York City, $7,175, 91st Ave., from H. J. Mullen Contg. Co., Jamaica Ave. and 144th St., Jamaica, $28,547; paving 91st Ave. from Uvalde Asphalt Paving Co., 1 Bway., New York City, $59,077. Noted Jan. 15.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Jan. 14, from M. Del Balso, 660 East 221st St., grading, curbing and sidewalks on East 243rd St., $6,189; from I. F. Cavaluzzo, 1538 Walton Ave., Adee Ave. $31,638; Pelham Parkway $12,547, Hermany Ave. $14,862; East 213th St. $7,159; from L. DiMinna, 2366 Lorrilard Pl., Quimby Ave. $3,770, East 172nd St. $1,399, East 195th St. $6,491; from S. Nugent, 285 West 150th St., Liebig Ave. $26,754, West 255th St. $2,144; from Bronx Sewer Co., 375 East Fordham Rd., Randall Ave. $8,415. Noted Jan. 8.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Jan. 13, from Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., asphalt guttering and granite curbing 6,075 sq.yd. 18th St., $25,950, asphalt paving, curbing and guttering 4,015 sq.yd. Fairfax St., $27,540, 1,240 sq.yd. Potomac St., $6,128, 14,910 sq. yd. Franklin Ave., $102,547; from Webb-Boone Paving Co., 5927 Fyler Ave., asphalt paving, concrete curbing and guttering 6,735 sq.yd. Macklind Ave., $37,541; from Granite Bituminous Paving Co., Railway Exch. Bldg., Warrenite paving, concrete guttering and granite curbing 10,090 sq.yd. Bell Ave. $51,998, 2,608 sq.yd. Dickson St. $14,083; from Skrainka Constr. Co., Security Bldg., brick paving and granite curbing 8,365 sq.yd. Marine Ave., $54,376. Noted Dec. 18.

Tex., Sanderson—Terrell Co., grading, caliche surfacing and bridging 25.07 mi. State Highway 12, Federal Aid Project 324-C, 18 ft., from W. T. Montgomery, Hayner & Burns, Alamo Bank Bldg., San Antonio, $95,495. Engrs. est. $100,373. Noted Dec. 25.

Colorado — State Hy. Dept., Denver, gravel surfacing 2.973 mi. Federal Aid Project 243 B, east of Piedra, Archuleta Co., from Eugler & Tessyier, Durango, $44,025; 3.143 mi. Federal Aid Project 265A, between Durango and Bayfield, La Plata Co., from Blackwell & Butler, Box 575, Grand Junction, $31,286.

Calif., Los Angeles—Improving Seville St., from J. Farquhor, Los Angeles, $1,094; grading, asphaltic concrete paving, etc., Saratoga St. from Baker & Vigis, Los Angeles, $6,681; grading, curbing, sidewalks, etc., on Clinton St., from J. R. McKnight, 360 South Reno St., $8,415, Herkimer St., from C. W. Shafer, 3301 South Hill St., $9,037; grading, curbing, warrenite bitulithic paving, etc., Harvard Blvd., from G. R. Curtis Paving Co., 2440 East 26th St., $27,410, Cypress Ave., from Warren Constr. Co., 2221 East 25th St., $7,863; grading and sidewalks on Kerchoff Ave. and grading and asphaltic macadam paving Menlo Ave., from Griffith Co., Railway Bldg., $1,993 and $9,067 respectively.

Calif., Hanford — Supervs. Kings Co., Jan. 5, improving Hanford-Riverbend Gap Rd., 4,722 cu.yd. concrete paving, 284,620 sq.ft. 1.5 in. Topeka or 284,620 sq.ft. 3.5 in. asphalt on concete, from A. J. Crocker Co., 58 2nd St., San Francisco, $53,728. Noted Dec. 18.

Calif., San Diego—Common Council, Jan. 5, from Pioneer Truck Co., 954 3rd St., improving Myrtle St., 110,077 sq.ft. 1.5 in. Topeka on 4 in. concrete at $0.207 per sq. ft., 12,072 sq.ft. concrete sidewalks $0.22, 2,623 lin.ft. concrete curb $0.65, total $27,147. Noted Nov. 27.

CONTRACTS AWARDED

Alabama—State Hy. Dept., Montgomery, grading 7 mi. Birmingham-Montgomery Rd., to Gills Constr. Co., Brewton, $84,753, engrs. est. $85,000; asphalt on concrete surfacing 7 mi. Birmingham-Montgomery Rd., to Morgan-Hill Constr. Co., Woodward Bldg., $229,814, engrs. est. $230,000, state furnishes cement at $106,874, both 18 ft., Chilton Co. Noted Dec. 4 and Jan. 8.

Miss., Corinth—Grading, curbing, asphalt surfacing, etc., 30 blocks various streets, 24 and 26 ft., to Carey Reed Co., Lexington, Ky.

Miss., Iuka — Tishomingo Co., grading, clearing, etc., 9 mi. Iuka-Tishomingo Rd., to E. H. Gravette, Iuka.

Miss., Vicksburg—Bd. Supervs. Warren Co., gravel surfacing 5 mi. Oak Ridge-County line Rd., to Owens Constr. Co., Vicksburg, $28,000.

La., Homer — Claiborne Parish Police Jury, grading and gravel surfacing 14.51 mi. Sects. A, B and C, Junction City-Homer Rd., and Sect. A, Homer-Oldfield Rd., to F. D. Harney & Co., Memphis, Tenn. Noted Jan. 1.

Michigan — State Hy. Dept. at office Comrs. Lapeer Co., Lapeer, grading and gravel surfacing 2.967 mi. Assessment Dist. Rd. 460, to Poyer & Hawkins, Bay City, $41,562. Noted Jan. 8.

Kan., Columbus—Cherokee Co., grading, chats surfacing, etc. Federal Aid Project 255-A, to Shultz & Shultz, Harper, $59,372. Engrs. est. $65,591. Noted Dec. 18.

Kan., Eldorado—Butler Co., grading, etc. 7.144 mi. Federal Aid Project 239-A, B and C, 28 ft., to Maney Bros., Empire Bldg., Oklahoma City, $54,418. Noted Dec. 25.

Kan., Lyndon—Osage Co., grading, concrete surfacing, etc. 1.647 mi. Federal Aid Project 266-B, to M. M. Penny Constr. Co., Ponca City, Okla., $85,857; 2 bridges

Streets and Roads (Continued)

on Federal Aid Project 266-D, to Silver Constr. Co., Osage City, $17,113. Noted Nov. 13.

Kan., Oswego—Labette Co., grading, etc. Federal Aid Project 214-A, to Cook & Waddell, Ottawa, $34,626. Engrs. est. $39,361. Rejected bids gravel surfacing same road, and work will be done by day labor. Noted Dec. 18.

Kan., Oswego—Labette Co., grading, etc., 6.751 mi. Federal Aid Project 214-A, to Cook & Waddell, Ottawa, $40,189. Rejected bids surfacing same road. Will re-advertise. Noted Dec. 4.

Kan., Paola—Miami Co., grading Federal Aid Project 213-A and 293-A, to Tibbetts & Pleasants, Olathe, $20,905 and $20,847 respectively; culverts and bridges on Federal Aid Project 213 A, to Yancey Constr. Co., $15,946 and $9,258 respectively; culverts on Federal Aid Project 293 A, to A. L. Cook, Ottawa, $7,849. Noted Jan. 15.

Missouri—State Hy. Comn., at Hotel Jefferson, St. Louis, to J. Stanton, Leavenworth, Kan., concrete surfacing 4.374 mi. road in Marion Co., $67,965, state to furnish material $63,106, 5.766 mi. road in Ralls Co. $115,817, state to furnish material $87,121; to Cook-O'Brien Constr. Co., 305 Railway Exch. Bldg., Kansas City, grading 10.64 mi. road in Platte Co. $101,868, state to furnish material $5,853; to J. H. Stephens, Mansfield, grading and graveling 2.321 mi. road in Camden Co., $6,472, 6.571 mi. road in Cole Co. $22,647, to Talbert Bros., Fordland, 7.31 mi. road in Dent Co. $47,175, to Summerfield-Jones Co., Billings, 3.875 mi. road in Douglas Co. $51,485, state to furnish material $1,465, to J. A. Kerr, Ozark, 4.116 mi. road in Lawrence Co. $36,747, state to furnish material $1,938, to F. Kersting Co., Jefferson City, 5.839 mi. road in Montgomery Co. $78,709, state to furnish material $40,566, to Kiefner & Geile, Perryville, 1.163 mi. road in St. Francois Co. $5,663, to S. J. Chaney, Bronson, 8.383 mi. road in Texas Co. $52,216, state to furnish material $1,297.

Texas—San Benito & Rio Grande Ry. Co., San Benito, grading and bridging 15 mi. road between end of track near Hidalgo and Santa Maria, to W. H. Nichols & Co., Dallas, $49,082.

Tex., Carrizo Springs — Dimmitt Co., grading, gravel caliche, crushed rock and macadam surfacing 12.27 mi. road between here and Maverick Co. line, to Buchanan & Veasley, Temple $97,416; 11.69 mi. same road to D. H. Buchanan, Temple, $102,147, both 18 ft. Noted Dec. 25.

Tex., San Antonio—Will widen approximately 6 blocks South Flores St., 35 ft., by day labor. $200,000. I. Ewig, c/o City Hall, engr.

Tex., Sweetwater—Nolan Co., grading, bituminous surfacing on sledged stone and bridging 12.48 mi. State Highway 70, to C. C. O'Neal, Dallas, $131,413. Engrs. est. $145,000. Noted Jan. 8.

Okla., Checotah—Vertical fibre brick resurfacing 19,000 sq.yd. Bway., Gentry and West 2nd Sts., to Dougherty-Nichols Co., 416 Equity Bldg., $64,192. Engrs. est. $69,000.

Okla., Oklahoma City—Grading, curbing and 6 in. 2 course Willite asphalt surfacing 15,700 sq.yd. 18th St., to Western Paving Co., Tradesmens Bldg., $89,954; 8- to 15-in. sanitary sewers at Capitol Hill, to J. Tiley & Sons, $882. Noted Jan. 1.

Okla., Wetumka—Grading, curbing, brick on concrete paving, etc., 5,500 sq.yd. Dist. 4, to Park & Moran, Okmulgee, $27,265. Noted Jan. 1.

Wash., Seattle—King Co., to J. H. Collins & Co., Spokane, paving 1.25 mi. Highway 28, Auburn South, 15,477 sq.yd. concrete $2.25 per sq.yd., 1,950 cu.yd. earth excav. $0.75, etc., total $95,898; to Adams, Hancock & Adams, Renton, 2 mi. Perm Highway 36, Benson Rd. from Renton south, 28,987 sq.yd. concrete $2.30, 9,446 cu.yd. earth excav. $0.70, etc., total $77,470; to R. L. Rowland, Seattle, 2 mi. Perm Highway 37, Renton-Maple Valley Rd., 15,470 sq.yd. concrete $2.08, 1,962 cu.yd. earth excav. $0.45, etc., total $64,825.

Calif., Burbank—Grading, curbing, sidewalks, lighting system, concrete and oil macadam paving, Benmar Hills Tract, to G. A. Simpson, Olson Bldg., approximately $350,000.

Calif., Chico—City Trustees improving Normal Ave., Hazel St., etc., 581,040 sq.ft. grading, 575,200 sq.ft. 5 in. asphaltic concrete paving, etc., to J. E. Johnston, 315 Stockton Savings & Loan Bank Bldg., Stockton, $114,580. Noted Dec. 25.

Calif., El Cerrito — Improving various streets, incl. Lincoln, Eureka Sts., etc., 240,000 sq.ft. 1.5 in. Warrenite-bituminous on 2.5 in. asphaltic concrete, 15,246 lin.ft. curbing, 26,221 sq.ft. grading, etc., to A. J. Crocker, 58 2nd St., San Francisco, $79,965. Noted Jan. 8.

Calif., Hanford—Supervs. Kings Co., improving Hanford-Riverbend Gap Rd., 4,722 cu.yd. concrete paving, 284,620 sq.ft. 1.5 in. Topeka or 284,620 sq.ft. 3.5 in. asphalt on concrete, to A. J. Crocker Co., 58 2nd St., San Francisco, $53,728. Noted Dec. 18.

Calif., Huntington Park—To Gibbons & Reed, 905 South Olive St., Los Angeles, paving Santa Ana St., approximately 120,000 sq.ft. 6 in. concrete at $0.20 per sq.ft. Noted Dec. 25.

Calif., San Diego—A. H. Wright, city clerk, improving Ibis, Ingalls and four other streets, to G. R. Daley, 4430 Boundary St., $26,951. Noted Jan. 8.

Calif., Santa Ana—To Griffith Co., Railway Bldg., Los Angeles, improving Orange and portions of Cypress Aves., 110,328 sq. ft. 5 in. concrete paving at $0.173 per sq.ft., 110,954 sq.ft. 6 in. concrete paving $0.196, etc., total approximately $42,000.

Calif., Seal Beach—Curbing, 5 in. concrete paving, Topeka surface, etc., portions of 5th, 6th and 7th Sts., to Griffith Co., Railway Bldg., Los Angeles, $33,560. Noted Jan. 15.

Calif., Stockton—Supervs. San Joaquin Co. improving Boberg Rd., 5,000 cu.yd. grading, 9,550 tons base and 2,930 tons top rock, 1,350 tons screenings or pea gravel, 1,220 bbls. asphaltic oil, to I. H. Cupps, 136 St. Roses Ave., San Francisco, $38,285. Noted Jan. 15.

Calif., Stockton — Supervs. San Joaquin Co., improving 17,916 lin.ft. Stanislaus River Rd., 4,000 cu.yd. grading, 8,200 tons base and 2,350 tons top rock, 1,180 tons screenings, 970 lbs. asphaltic oil, etc., to Freeman & Whiting, Redwood City, $29,998.

Calif., Torrance—Grading, 1 in. Willite on 3 in. asphaltic concrete paving 4 in. side sewers, etc., in alleys in Torrence Tract, to Dunkle & Phillips, San Fernando Bldg., Los Angeles, $41,827.

Que., Trois Pistoles—Dept. Provincial Highways, Quebec, macadamizing Tobi Hill, here to T. E. Rousseau, 48 2nd Ave. Limoilou, $62,000. Engrs. est. $60,000.

Buildings—Industrial

PROPOSED WORK

Me., Camden—Mill—Seabright Woven Felt Co., Camden, plans 4 story, 55 x 115 ft. addition. $300,000. Engineer and architect not selected.

Me., Madawaska—Plant—Fraser Companies, Edmunston, N. B., soon takes bids for large paper plant, here. $1,000,000.

Conn., Rainbow—Power Plant—Stanley Works, Grove Hill, New Britain, plans power plant, incl. an artificial lake and dam adjacent to Farmington River Waterway, 8,000 kw. capacity. $1,000,000.

N. J., Trenton—Bakery—General Baking Co., 564 Perry St., plans 1 story, 93 x 100 ft. bakery, Brunswick Ave. $40,000.

N. C., Ashboro—Mill—Parks Hosiery Mills, Inc., plans 2 story, 60x100 ft., brick mill, $75,900. H. Parks, Ashboro, pres.

N. C., Asheville—Plant—Sayles Finishing Co., Saylesville, R. I., plans finishing plant, near here. $2,000,000. J. E. Sirrine, Greenville, S. C., engr.

N. C., Saluda—Power House—See "Unclassified."

O., Cleveland—Factory, etc.—J. Kinsner & Son Co., 8710 Blaine Ave., having plans prepared by K. I. Best & E. G. Hoefler, B. F. Keith Bldg., 1 story, 100 x 200 ft., brick and steel factory and warehouse, West 114th St. $60,000.

O., Cleveland—Plant—Bryant Heaters & Mfg. Co., 952 East 72nd St., having plans prepared by G. Fox, c/o owner, 1 and 2 story,, brick and steel, East 179th St. and St. Clair Ave. $200,000.

Mich., Port Huron—See "London, Ont."

Wis., Milwaukee—Plant—Everpure Ice Co., 1500 Walnut St., had plans prepared by and soon takes bids 2 story, 30 x 100 ft., brick and timber addition, plain foundation, Walnut St. $40,000. G. B. Wright Co., 103 Marquette Bldg., Detroit, Mich., engr.

Wis., Two Rivers—Plant—Kahlenberg Bros. Co., W. Kahlenberg, pres., soon takes bids 1 story, 60 x 152 ft., brick and steel addition, plain foundation. $45,000. Private plans. Noted Nov. 13.

Ia., Sioux City—Machine Shop—Albertson Co., 3100 Floyd Ave., having plans prepared by Colby & Westerlind, 108 War Eagle Bldg., 2 story, 150 x 165 ft., rein.-con. and brick addition. $50,000.

Mo., St. Louis—Factory, etc.—Phelan-Faust Paint Mfg. Co., 1215 Pine St., having preliminary plans prepared factory and general office building, brick and concrete, Blow and Loughborough Sts. $200,000.

Tex., Dallas—Plant—M. Hahn, pres. M. Hahn Packing Co., North Alamo St., having plans prepared and soon takes bids packing plant, smoke houses, etc., rein.-con. and brick, plain foundation. $80,000. M. P. Burt, Dallas, engr.

Tex., Houston—Plant—See "Building—Commercial."

Okla., Frederick—Compress—R. A. Harrison making preliminary plans 1 story, 300 x 450 ft., timber, plain foundation. $100,000. Engineer and architect not selected.

Wash., Aberdeen — Power House — See "Waterworks."

Wash., Vancouver — Mill — Washington Oregon Linen Mills, plans 2 story, 80 x 450 ft., and 200 x 450 ft. steel and brick buildings. $600,000. Address A. L. Miller, Vancouver, secy.

Ore., Camas—Mill—Owner, c/o F. W. Leadbetter, pres., 795 Park St., plans mill buildings, west of here. $1,000,000.

Que., Thurso—Plant—Singer Mfg. Co., St. Johns, plans factory. $1,000,000. Engineer and architect not selected.

Ont., Humberstone—Distillery—Highland Scotch Distillers, Ltd., plans concrete and brick distillery, incl. tanks, stills, pumps, etc.

Ont., London—Plants—Cunningham Furnace & Mchy. Co., 1 York St., plans remodeling plant, and opening branch plant in Port Huron, Mich. $100,000.

Ont., Owen Sound—Northern Bolt, Screw & Wire Co., plans rebuilding factory, recently destroyed by fire. Loss $75,000.

Ont., Toronto—Factory—E. and S. Currie Ltd., 50 York St., having plans prepared by W. Steele & Sons Co., 31 Bloor St. E., 6 story and basement, rein.-con., brick and steel, plain foundation, Spadina Ave. $200,000. Noted Jan. 15.

Ont., Toronto—Refinery—McColl Bros., 114 Don Esplanade Ave., plans oil refinery, incl. steel tanks, steel stills, etc., here. $150,000.

Man., Winnipeg — Refinery — Dyer Co., 2031 Euclid Ave., Cleveland, O., plans sugar refinery, here. $2,000,000.

BIDS DESIRED

Mass., Watertown—Factory—Jolly Ice Cream Co., Main St., taking bids 2 story, 45 x 50 ft., and 50 x 60 ft., rein.-con. and brick, Main and Westminster Sts. $40,000. W. H. Haines, 32 Riverview Ave., Waltham, archt.

CONTRACTS AWARDED

Md., Sparrows Point—Mill—Bethlehem Steel Co., will build 2 story, steel mill, plain foundation, by day labor. $300,000. Private plans.

O., Defiance—Factory—Page Organ Co., c/o O. M. Samson, 1 story, 23 x 133 ft., brick, steel and concrete, to Austin Co., 16112 Euclid Ave., Cleveland. Archts. est. $40,000.

Ill., Rockford—Factory—Rockford Paper Box Board Co., Catherine St., 3 story, 70 x 100 ft., brick and concrete factory, to Holm-Page Co., Kishwaukee St. Archts. est. $75,000.

Wis., Navarino — Feed Mill—Fenn & Meyer, will build 2 story, brick feed mill, plain foundation, by day labor. $40,000. Private plans.

Wash., Tacoma—Sub-Station—Commissioner Light & Water, concrete substation proper, tunnels, footings for oustide equipment and steel structures to support heavy bus connections, for Cushman power project, to Dougan & Chrisman, Hinckley Bldg., Seattle, $166,471. Noted Dec. 25.

Calif., Los Angeles—Factory—McClellan Mfg. Co., 951 South Los Angeles St., 1 story, 50 x 100 ft., and 1 story, 200 x 235 ft., both brick and steel, South Park Ave., to Austin Co. of California, 777 East Washington St.

Calif., Los Angeles—Laundry—H. Pierce, archt., Wright-Callendar Bldg., 3 story, brick laundry, Main St., to Lynch Constr. Co., Central Bldg., for Peerless Laundry Co., 5826 South Main St., $75,000. Noted Jan. 15.

Calif., Los Angeles—Sub-Station—Los Angeles Gas & Electric Co., 645 South Hill St., 1, 2 and 3 story, 155 x 236 ft., rein.-con., Velasco St., to D. P. Robinson & Co., Union Oil Bldg.

Ont., Niagara Falls—Factory—Burgess Battery Co., Niagara Falls, concrete, brick and steel addition, to Robertson Constr. Co., Ltd., Niagara Falls. Archts. est. $60,000.

Buildings—Commercial

PROPOSED WORK

N. H., Concord—Temple and Theatre—Tash Real Estate Assn., c/o C. R. Whitcher, archt., 814 Elm St., Manchester, having plans prepared 3 story and basement, brick and steel temple and theatre. To exceed $150,000.

N. H., Manchester—Society—Bek Tash Temple having plans prepared by C. R. Whitcher, 814 Elm St., 3 story and basement, 100 x 150 ft., rein.-con. and brick. $250,000.

Buildings—Commercial (Continued)

Mass., Boston — Station—Commonwealth of Massachusetts, having preliminary plans prepared for elevated station, Charles and Cambridge Sts. $600,000, legislation appropriation. Boston Transit Dept., 1 Beacon St., engrs.

Mass., Fitchburg — Hospital — Trustees Burbank Hospital, J. H. Delaney, chn., plan altering and constructing 2 story and basement wing addition, $350,000.

Mass., Lynn—Hospital—Lynn Hospital, H. M. Hoague, pres., 528 Broad St., having plans prepared by Kendall, Taylor & Co., archts., 142 Berkley St., Boston, and Sanborn & Weed, associated archts., 38 Exchange St., for hospital. Noted Dec. 4.

Mass., Newton—Hospital—New England Home for Crippled Children, Newton Centre, having sketches made by Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., Boston, orthopedic surgery hospital for treatment of infantile paralysis, etc., in Oak Hill Center, here. $150,000. Noted Dec. 4.

Mass., Pittsfield — Office and Store — Sweeney & Farrell Corp., c/o G. E. Haynes, archt., 184 North St., having revised plans prepared 4 story and basement, 50 x 130 ft., brick and steel, North St. $175,000.

Mass., South Boston (Boston P. O.)—Garage—J. D. Marr, c/o E. N. Adams, archts., 86 Everett St., Arlington, takes bids about Feb. 1st, 2 story, 100 x 200 ft., rein.-con., Old Colony Ave. and D Sts., here. $175,000. Noted Oct. 30.

Mass., Worcester—High School—School Comn., City Hall, plans commercial high school and manual training school, Walnut St. $500,000.

R. I., Cranston—City Hall—City, D. D. Waterman, city clk., having preliminary plans prepared by W. R. Walker & Son, 49 Weybosset St., Providence, for city hall, Park Ave. $300,000.

R. I., Cranston—High School—City having preliminary plans prepared by W. R. Walker & Son, 49 Weybosset St., Providence, for high school. $400,000. Noted Dec. 25.

Conn., Hartford — Exchange — Southern New England Telephone Co., Pearl St., plans brick and steel addition to central exchange, Pearl St. $200,000. R. W. Foote, 185 Church St., New Haven, archts.

N. Y., Buffalo—Memorial Home—American Legion, V. G. Hart, commander, Ellicott Sq. Bldg., plans memorial home. $1,000,000.

N. Y., Freeport—Bank—Freeport Bank having plans prepared by Purdy & Davis, archts. and engrs., 350 Madison Ave., New York City, 1 story, brick, steel and stone, plain foundation. $150,000.

N. Y., Hamilton—Hotel—Colgate Inn, Inc., Hamilton, having plans prepared by J. G. White Eng. Corp., 43 Exch. Pl., New York City, 48 room hotel, Payne and Madison Sts.

N. J., Jersey City—Y. W. C. A., 43 Belmont Ave., having plans prepared by J. T. Rowland, 100 Sip Ave., 7 story, brick, steel and stone, plain foundation, Fairmont Ave.

N. Y., New York—Apartment—Central Park West Impvt. Co., c/o H. Wolff, archt., 30 East 23rd St., having plans prepared 9 story, 60 x 85 ft., brick, steel and stone, plain foundation, 15 West 65th St. $800,000.

N. Y., New York—Apartment—F. H. Realty Corp., c/o E. Roth, archt. and engr., 119 West 40th St., having plans prepared 15 story, brick, steel and stone, plain foundation, Amsterdam Ave. $1,200,000.

N. Y., New York—Apartment—M. T. K. Building Co., c/o Rotholz & Golden, archts. and engrs., 311 Lenox Ave., having plans prepared 6 story, 155 x 205 ft., brick, steel and stone, plain foundation, East 176th St. $600,000.

N. Y., New York—Hotel—Cornish Arms Hotel Co., c/o W. H. Jackson, archt. and engr., 1834 Bway., having plans prepared 12 story, brick, steel and stone, plain foundation, 323 West 23rd St. $1,000,000.

N. J., Audubon—High School—Bd. Educ. plans new high school. $500,000. Engineer and architect not selected.

N. J., Camden—Hospital—Bd. Freeholders Camden Co. plans to expend $485,550 for addition to insane hospital; $51,304 for connecting builcings; $132,251 for nurses' home; $174,900 for infirmary; $32,470 for corridor and $52,470 for other improvements. J. J. Albertson, Camden, archt.

N. J., Princeton—Engineering—Princeton University having plans prepared by Day & Klauder, Franklin Bldg., Phila., Pa., 3 story engineering building. $1,000,000.

N. J., Trenton—Temple—Masonic Home Assn., having plans prepared by Hill & Gollner, Broad St. Bank Bldg., constructing new temple, East Front St. $750,000.

Pa., Punxsutawney—School—School Dist. plans 3 story, 100 x 200 ft., brick and steel school. $300,000. Engineer and architect not selected.

Pa., Upper Darby (branch of Phila.)—Apartment and Store—W. A. Hall, archt., P. O. Bldg., preparing plans 4 story and basement, 135 x 160 ft., brick and steel, plain foundation. $300,000. Owner's name withheld.

Va., Richmond — Church — Woodland Heights Methodist Church having plans prepared new church, McDonough and 32nd Sts. $150,000. E. P. Smith, chn. building com.

Va., Virginia Beach — Hotel — Virginia Beach Hotel Corp. having plans prepared by McLanahan & Beacker, Bellevue Ct. Bldg., Phila., Pa., 315 room hotel, fireproof, on 60 acre tract, also 18 hole golf course. $1,800,000.

N. C., Durham—Hospital-Durham Co. plans tuberculosis hospital. $200,000. H. L. Carver, Rougemont, chn.

N. C., Durham—Hospital-Watts Hospital plans enlarging facilities, incl. addition to hospital $150,000, also enlarging dining room and nurses home $50,000. J. Spount Hill, chn. bd. trustees.

N. C., Winston-Salem—City Hall—City had plans prepared new city hall, Main St. $400,000. Engineer and architect not announced.

S. C., Greenville — Theatre — W. H. Kieth, having plans prepared by Beecham & Le Grand, North St., 2 story, rein.-con., plain foundation, Main St. $150,000.

Fla., Homestead—Hotel—Homestead Development Assn., W. D. Horn, pres., having plans prepared by W. C. DeGarmo, Fidelity Bank Bldg., Miami, 4 story hotel, Krome and Kings Aves. $300,000.

Fla., Miami—Hotel—Melrose Hotel Corp. had plans prepared by H. G. Fink, Miami, 4 story hotel, North West 27th St. $750,000.

Fla., Miami—Office—P. J. Davis & Associates having plans prepared by Robertson & Patterson, Calumet Bldg., 12 story, 100 x 300 ft. office building, North East 1st St. $2,500,000.

Tenn., Nashville — Office, Store and Garage—H. G. Hill, 500 2nd Ave. N., having plans prepared by Marr & Holman, Stahlman Bldg., 4 story, 82 x 125 ft., rein.-con. and brick office and store building, Church St. and 9th Ave., also garage in rear. $200,000.

Ky., Ashland—City Hall—City Council having sketches made 3 story and basement, concrete, brick and stone. $200,000. Engineer and architect not selected.

Ky., Ashland—Temple—Masonic Temple Assn., having sketches made 4 story and basement, concrete, brick and steel. $250,000. Engineer and architect not selected.

O., Ashland—Home—Bd. Comrs. Richland Co. having plans prepared by V. Redding and associates, Bird Bldg., Cleveland, 2 story and basement, 38 x 40 x 72 x 104 ft., concrete, brick and steel. $200,000.

O., Belmont — School — Bd. Educ., C. Powell, clk., having sketches made 3 story and basement, brick, concrete and terra cotta, grade and high school, $325,000 bonds voted. Engineer and architect not selected.

O., Chillicothe—School—Bd. Educ., E. Hess, secy., having sketches made 2 story and basement, brick and concrete school. $200,000. Engineer and architect not selected.

O., Cleveland—Church and School—St. Emericks Church, J. Hartel, pastor, 1924 West 22nd St., had plans prepared by H. Kling & Son, archts., Youngstown, and A. F. Foose, consult. archt., 212 Auditorium Garage Bldg., 2 story and basement, concrete, brick and steel, West 22nd St. $150,000.

O., Cleveland—Church, School, etc.—First Magyar Reformed Church, 2854 East 79th St., plans 2 and 3 story, brick church, school and parsonage, East Blvd. and Buckeye Rd. $200,000. Engineer and architect not selected.

O., Cleveland — Commercial, Apartment and Theatre—H. Feigenbaum, Inc., Williamson Bldg., having plans prepared by A. W. Harris, Discount Bldg., 1 and 3 story, brick, steel and concrete, on 125 x 159 ft. site, North Woodland Ave. and North Morland Blvd. $200,000.

O., Cleveland—Store, Office and Apartment—S. Silberman, East 93rd St. and Nevada Ave., plans 2 story and basement, brick and steel, Coventry and Mayfield Rds. $350,000. Engineer and architect not selected.

O., Cleveland—Store—S. S. Kresge Co., c/o H. Holmes, construction engr., Kresge Bldg., Detroit, Mich., plans 2 story and basement, concrete, brick and steel, on 35 x 300 ft. site, 5706 Bway., here. $150,000.

O., Cleveland—Store and Apartment—Syndicate, c/o L. Abrams, Engineers Bldg., having plans prepared by J. F. Steffens, Fidelity Mortgage Bldg., 3 story and basement, brick, steel and concrete, Superior Ave. and East 124th St. $150,000.

Ill., Harrisburg—Church—First Methodist Congregation, c/o W. H. Whitlock, pastor, 122 West Poplar St., plans 2 story and basement, rein.-con., brick and stone. $125,000-$150,000.

Ill., Joliet — Church and Community House—First Baptist Congregation, 1508 East Washington St., soon takes bids 2 and 3 story and basement, 125 x 126 ft., brick and concrete, Eastern and Clinton Sts. $200,000. J. R. Morison, 64 West Randolph St., Chicago, archt. Noted July 10.

Ill., La Grange—Church—Emanuel Congregation, c/o I. Goddard, pastor, 213 South Kensington Ave., making preliminary plans brick, concrete and stone church. $250,000. E. S. Humphreys, 211 South Waiola Ave., secy. building com. Engineer and architect not selected.

Wis., Milwaukee — Police Station and Schools—Budget for 1925 adopted and includes $1,400,000 bonds for central police station, also $1,000,000 bonds for schools.

Mo., St. Louis—Hotel—Local Syndicate, c/o Hitzman Realty Co., 401 Times Bldg., making preliminary plans 9 story and basement, 90 x 120 ft., rein.-con., brick, stone and steel, Washington and 18th Sts. $2,000,000. Private plans.

Ark., Little Rock—Office—G. W. Donaughey, c/o Bankers Trust Bldg., having preliminary plans prepared by H. McDonnell, 247 Park Ave., New York City, and will build 14 story and basement, 100 x 140 ft., rein.-con., brick and steel, 7th and Main Sts., by day labor. $1,000,000.

Tex., Houston — Office, etc. — Houston Printing Co., Houston, plans 16 story and basement, rein.-con., brick and steel, office and plant, plain and concrete pile foundation, Texas and Fannin Sts. $1,250,000. Engineer and architect not announced. R. S. Sterling, 4515 Rossmoyne Blvd., chn.

BRIDGE—PENNSYLVANIA

Bids were opened (lowest 3) by Delaware River Bridge Joint Comn., Widener Bldg., Phila., for Camden Approach to bridge over Delaware River connecting Philadelphia and Camden, Contr. No. 20, (A) O'Neill Co., 231 Spring Garden St. (awarded contract); (B) Frederick Snare Corp., Weightman Bldg.; (C) F. J. Boas, 201 North Broad St. The unit bids are as follows:

	A	B	C
2,320,000 lb. carbon steel	$0.06	$0.0576	$0.055
420,000 lb. silicon steel	.0725	.0670	.065
60,000 lb. cast steel	13.00	.1025	.11
500,000 lb. reinforcing steel	.049	.05	.045
2,400 cu.yd. excavation	2.00	4.00	2.50
300 cu.yd. fill	5.00	3.00	3.00
10,000 lin.ft. reinforced concrete piles	1.85	1.90	2.00
10,000 lin.ft. driving reinforced concrete piles	1.15	.40	1.08
3,120 cu.yd. concrete masonry, grade "A"	22.55	24.00	29.00
960 cu.yd. concrete masonry, grade "B"	16.00	20.00	19.00
290 cu.yd. granite masonry, rockface ashlar	91.95	108.00	90.00
320 cu.yd. granite masonry, four cut	149.85	154.00	150.00
500 lin.ft. 2 ft. 6 in. diameter brick sewer	12.00	18.00	15.00
25 lin.ft. 2 ft. 6 in. x 1 ft. 8 in. brick sewer	8.50	18.00	12.00
115 lin.ft. 24 in. diameter vitrified clay pipe sewer in concrete cradle	15.00	13.00	13.00
20 lin.ft. 12 in. diameter vitrified clay pipe	3.00	8.00	8.00
5 brick manholes with covers and frames	125.00	180.00	155.00
20 cu.yd. rubble (French) drains	4.50	6.00	5.00
100 sq.yd. damp-proofing	.40	1.50	.50
500 lin.ft. test borings	1.65	2.00	1.70
Extended totals	$408,161	$414,377	$414,950

Buildings—Commercial (Continued)

Tex., Houston — Office — Houston Post-Dispatch Printing Co., R. S. Sterling, chn., 602 Travis Bldg., having plans prepared by Sanguinet, Staats, Hedrick & Gottlieb, 204 2nd Natl. Bank Bldg., 16 story, reni.-con., steel, Bedford limestone, terrazzo, tar and gravel, Texas Ave. and Fannin St. $1,500,000.

Wash., Seattle—Apartment—E. A. Roberts, archt., Burke Bldg., takes bids about Feb. 10, 3 story, 103 x 160 ft. apartment, East 43rd and Brooklyn Sts., for Hartland Investment Co., Burke Bldg. $225,000.

Wash., Seattle—Apartment Hotel—L. N. Rosenbaum & Co., 130 West 42nd St., New York City, takes bids about Feb. 10, 10 story, concrete and steel, Pike St. and Hubbell Pl., here. $300,000.

Wash., Seattle—Office and Showroom—Lawton & Moldenhour, archts., Alaska Bldg., take bids about Feb. 15, 6 story, rein.-con. and brick, 9th Ave. and Stewart St., for L. N. Rosenbaum & Co., 130 West 42nd St., New York City. $160,000.

Calif., Long Beach — Club — Curlett & Beelman, archts., Union Bank Bldg., Los Angeles, soon takes bids 14 story and basement, approximately 150 x 250 ft., rein.-con., Ocean Ave., for Interests represented by D. M. Smith, c/o architects. $850,000 or more.

Calif., Los Angeles—Hospital—Walker & Eisen, archts., Great Republic Bldg., soon takes bids (1st unit) 8 story and basement, approximately 45 x 220 ft. hospital, 8 story and basement service building, and 50 x 80 ft. powerhouse, etc., Hope St., for California Lutheran Hospital Assn., 1414 South Hope St. $1,250,000. Noted Aug. 7.

Calif., Los Angeles—Mercantile—Western Constr. Co., 129 North Larchmont Blvd., plans mercantile building, Wilshire Blvd. $1,000,000.

BIDS DESIRED

Me., Orono — Armory and Gymnasium, etc.—University of Maine, taking bids 1 and 2 story, 118 x 318 ft., brick and timber armory, gymnasium and indoor base ball field. $500,000. Little & Russell, 45 Bronfield St., Boston, Mass., archts. Noted Aug. 21.

N. H., Nashua—Nurses Home—Jan. 26, by Nashua Memorial Hospital, A. Shea, chn., 3 story and basement, 40 x 100 ft. nurses home, brick and stone. $150,000. Stevens & Lee, 45 Newberry St., Boston, Mass., archts. Noted Jan. 15.

Mass., Boston — Garage — State Street Garage, Inc., c/o S. S. Eisenberg, archt., 46 Cornhill St., taking bids 6 story, 80 x 100 ft., rein.-con. and brick, 200 Cambridge St. $250,000. Noted Jan. 15.

Mass., Boston—Store—Kakas Bros., Inc., 72 Chauncy St., taking bids remodeling 4 story and basement, brick and stone, 93-95 Newbury St. $150,000. Kilham, Hopkins & Greeley, 9 Park St., archt. Noted Dec. 25.

Mass., Brookline—Apartment—M. Miller, 130 Callender St., Boston, taking bids 3 story and basement, 100 x 120 ft., brick and stone, Winchester St., here. $150,000. S. S. Levy, 35 Court St., Boston, archt.

Mass., Dorchester (Boston P. O.) — Apartment—D. Feldman, c/o S. S. Levy, archt., 35 Court St., Boston, taking bids 3 story and basement, 80 x 90 ft., rein.-con. and brick, plain foundation, Wellington Hill St., here. $150,000.

Mass., Jamaica Plain (Boston P. O.)—High School—Jan. 30, by Schoolhouse Dept., Boston, 3 story and basement, 70 x 130 ft., brick and stone addition, Elm St. $185,000. Andrews, Jones, Biscoe & Whitmore, 50 Congress St., Boston, archts. Noted Sept. 25.

Mass., New Bedford—High School—City, Municipal Bldg., taking bids 3 story and basement, 160 x 225 ft., brick and limestone addition, Court St. $500,000. Brown & Poole, 688 Pleasant St., archts.

Mass., New Bedford—Theatre and Office—Z. Ray, 1527 Acushnet Ave., taking bids 2 story and basement, 72 x 130 ft. theatre, and 62 x 130 ft. office building, Acushnet Ave. $250,000. O. Crapo, 1428 Acushnet Ave., archt. Noted Dec. 25.

Mass., Newtonville—High School—Jan. 29 (change of date), by City of Newton, H. Fitts, chn., City Hall, Newton, 3 story and basement, brick and stone high school and gymnasium, Elm St., here. $600,000. Haven & Hoyt, 220 Devonshire St., Boston, engrs. W. A. Richardson, 80 Boylston St., Boston, archts. Noted Jan. 15.

Mass., Pittsfield—Store—England Bros. Dept. Store, North St., taking bids altering and constructing 3 story and basement, 50 x 100 ft., brick addition. $150,000. G. E. Haynes, 184 North St., archt. Noted July 10.

N. Y., Akron—High and Grade School—Feb. 10, by Bd. Educ., 2 story and basement, 100 x 125 ft., rein.-con. and brick school. To exceed $175,000. M. C. Miller, Root Bldg., Buffalo, archt.

N. Y., Brooklyn — Office and Store — Esthetic Building Corp., c/o Seelig & Finkelstein, archts. and engrs., 44 Court St., will build 12 story, brick, steel and stone, plain foundation, Joralemon St. $1,500,000. Work will be done by separate contracts under supervision of architects.

N. Y., Brooklyn—School—Feb. 5, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., general construction P. S. 207, Fillmore Ave., for Bd. Educ., 500 Park Ave., New York. Former bids rejected. Noted Jan. 8.

N. Y., Utica—Bank and Office—Jan. 20, by First Natl. Bank & Trust Co., 14 story, 80 x 151 ft., brick, steel and stone, Genesee and Elizabeth Sts. York & Sawyer, 100 East 42nd St., New York City, archts. and engrs.

N. J., Caldwell—High School—Jan. 25, by Bd. Educ., 3 story and basement, 55 x 62 x 67 x 173 ft., brick and steel, plain foundation. $250,000. Starrett & Van Vleck, 8 West 40th St., New York City, archts.

Pa., State College—Store—Montgomery & Co., H. A. Leitzell, G. Smith, and C. Schlow, taking bids rebuilding 3 story and basement, 100x210 ft., brick and steel, College Ave. and Allen St., recently destroyed by fire. $175,000.

Del., Wilmington—School—Feb. 17, at office Bd. Pub. Educ., City Hall, W. R. Bancroft School, Lombard St. between 7th and 8th Sts. F. E. Booth, bus. mgr.; adv. E. N.-R. Jan. 22.

D. C., Wash.—Gymnasium, etc.—Jan. 24, by Secretary Dept. Interior, constructing gymnasium and armory building, etc. at Howard University. $200,000.

O., Cleveland — Church — Nativity of Blessed Virgin Mary Roman Catholic Church, c/o V. A. Chaloupka, pastor, 9614 Aetna Rd., taking bids and opens same about Feb. 2, 1 story and basement, 70 x 154 ft., brick, steel and concrete, Aetna Rd. $150,000. W. C. Jansen, 1227 Prospect Ave., archt. Noted July 31.

O., Cleveland—Store, Apartment and Office—Arden Realty Co., c/o P. F. Price, 12919 St. Clair Ave., taking bids 2 story and basement, 60 x 74 x 144 ft., brick and timber, East 131st St. and Miles Ave. $150,000. Allen-Osborn Co., Rose Bldg., archts.

O., Cleveland—Store, Office and Loft—Syndicate of Investors, c/o M. S. Koblitz, 424 Leader-News Bldg., taking bids 4 story and basement, brick, steel and concrete 1102 Superior Ave. $250,000. A. W. Harris, Discount Bldg., archt.

Mich., Albion—Gymnasium—Feb. 5, by Albion College, R. Stewart, bus. mgr., 1 and 2 story, brick and tile, plain foundation. $175,000. J. D. Chubb, 109 North Dearborn Ave., Chicago, Ill., archts.

Mich., Eloise—Infirmary—Jan. 28, by H. H. Prenzlauer, secy. Wayne Co. Supts. of Poor, 3 story and basement, 143 x 160 ft., rein.-con., brick and steel, plain foundation. McFarlane, Maul & Lenz, 1259 David Whitney Bldg., Detroit, archts.

Wis., Fond du Lac—High Schools—Feb. 4 (extended date), by Bd. Educ., c/o J. Hohensee, secy., 2 story and basement, brick and tile additions to Roosevelt Junior and Fond du Lac High Schools, plain foundations. $200,000 each. Noted Jan. 15.

Mo., St. Louis—Theatre and Office—Skouras Bros. Enterprises, Grand Central Bldg., taking bids 22 story and basement, 127 x 165 ft., rein.-con., brick, stone and steel, Locust and 7th Sts. $2,300,000. C. W. and G. L. Rapp, 190 North State St., Chicago, Ill., archts. Noted Nov. 6.

Ark., Little Rock—Store—J. D. Back & Bro., 410 Main St., and Mann & Stern, archts., A. O. U. W. Bldg., taking bids and open same about Feb. 10, 4 story and basement, 50 x 140 ft., rein.-con., brick, steel and stone, Main and 5th Sts. $150,000.

Tex., Corpus Christi—Office and Bank—City Natl. Bank, taking bids 6 story and part basement, brick and stone, addition, plain foundation. $160,000. R. H. Cameron, 1116 City Natl. Bank Bldg., San Antonio, Tex., archt. Noted Jan. 1.

Tex., Dallas—Apartment—J. M. Westbrook, archt., 407½ North Bishop St., taking bids 3 story and basement, 70 x 170 ft., brick, stone, tile, steel and rein.-con., Marsalis St., for J. R. Hill, 824 North Marsalis St. $150,000.

Tex., Dallas—Office and Store—A. A. Brown, archt., Western Indemnity Bldg., taking bids and opens same about Feb. 5, 2 story and part basement, 148x176 ft., brick and steel, plain foundation, Young & Browder Sts., for Gray & Clark Co., c/o architects. $160,000.

Calif., Huntington Park—Theatre, Store and Apartment—Lindley & Selkirk, archts., Amer. Bank Bldg., Los Angeles, taking bids 2 story, 115 x 150 ft., rein.-con., for West Coast Theatres, Inc., 643 South Olive St., Los Angeles. $150,000.

Calif., Los Angeles—School—Jan. 28, by Bd. Educ., Eschelman School, 2 story, 154 x 178 ft., rein.-con. and brick, Orange St. H. Hasenerger, 1110 Insurance Exch. Bldg., archts.

Calif., Los Angeles — Store, Office and Garage — Morgan, Walls & Clements, archts., Van Nuys Bldg., taking bids 1 and 2 story, 200 x 200 ft., brick, Western Ave. and Sierra Vista St., for P. R. Meyer, c/o architects. Noted Dec. 25.

Calif., Pomona—Dormitory—Jan. 27, by G. B. McDougall, state archt., Forum Bldg., Sacramento, two 1 story, 77 x 166 ft., rein.-con. and hollow tile, here, for State Building Comn. Noted July 31.

Calif., San Francisco—Club—Meyer & Johnson, archts., 742 Market St., taking bids 4 story and basement, rein.-con., Sacramento St. near Grant Ave., for Chinese Y. M. C. A., c/o architects. $200,000.

Ont., Collingwood—High School—Feb. 17, by E. Ward, secy. Bd. Educ., 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation. $160,000. J. Wilson, Collingwood, archt.

Ont., Ottawa—Orphans Home—Burritt & Kingston, archts., King Edward Ave., taking bids 2 story and basement, brick, plain foundation, Carling Ave., for Protestant Orphans Home. $150,000.

BIDS RECEIVED

N. J., New Brunswick—School—Building Comn. Bd. Educ., general contract alterations and additions to Bayard School, Bayard St., from J. L. Snitzler, 189 Easton Ave., $112,682. Noted Jan. 15.

Pa., Dormont—School—Bd. Educ. general contract 1 story and basement, 56 x 200 ft. school, from J. G. Fullman Co., E. E. Savings & Trust Bldg., Pittsburgh, $132,714.

Pa., West View—High School—Bd. Educ. general contract 2 story and basement, 68 x 110 ft. junior high school with two 25 x 62 ft. wings, from Rose & Fisher, Martin Bldg., Pittsburgh, $115,943. Noted Dec. 11.

Wis., Wauwatosa—Dormitory—W. Coffey, mgr. Bd. Trustees Milwaukee Co. Institutions, Jan. 14, 3 story and basement, brick and concrete dormitory addition at asylum for chronic insane, plain foundation, from Immel Constr. Co., Dana Bldg., Fond du Lac, $794,000. Noted Dec. 18.

CONTRACTS AWARDED

N. H., Woodsville—Hotel and Office—New Henderson Hotel Corp., 3 story, 60 x 130 ft., brick and steel, plain foundation. Main St., to R. E. Henderson, c/o owner. Archts. est. $175,000. Noted Dec. 25.

Mass., Boston — Apartment — Maryland Apartments, Inc., 31 Milk St., 10 story and basement, 70 x 100 ft., brick and steel, 510-516 Beacon St., to Boyle-Robertson Constr. Co., 370 Commonwealth Ave., Boston. Archts. est. $750,000.

Mass., Dorchester (Boston, P. O.)—Garage—M. A. Berman, 22 Fabyan St., 2 story, 100 x 150 ft., rein.-con. and brick, 995 Blue Hill Ave., to Hub Constr. Co., 333 Washington St., Boston. Archts. est. $160,000.

Mass., Gardner — Apartment — Frissell Eng. Co., 177 West St., will build 4 story and basement, 70 x 100 ft., brick and steel, plain foundation, West Lynde St., by day labor. $160,000. Private plans.

Mass., Salem—School—St. Joseph's Parish, c/o P. H. Grenier, pastor, Lafayette St., 3 story and basemen,t 75 x 135 ft., brick and cast stone, Lafayette St., to J. Goudeau, 69 Ocean Ave. Archts. est. $300,000. Noted Nov. 27.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York City, P. S. 105, Ft. Hamilton Ave. between 58th and 59th Sts., here, general contract, to T. A. Clarke Co., 122 Livingston St., $836,700; plumbing and drainage, to E. Harley, 885 New York Ave., $44,900; heating and ventilating, to D. J. Rice, 606 1st Ave., New York City, $112,787; electric work, to Cleveland & Ryan, 26 Cortlandt St., New York City, $26,649. Noted Dec. 18.

N. Y., New York—Apartment—Beldor Constr. Co., c/o J. M. Felson, archt. and engr., 250 West 57th St., will build 6 story, 105 x 150 ft., brick, steel and stone, plain foundation, Sherman Ave., by day labor. $300,000.

N. Y., New York—Apartment—Gartel Holding Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, 85 x 125 ft., brick, steel and stone, plain foundation, Woodycrest Ave. near 168th St., by day labor. $250,000.

N. Y., New York—Apartment—Hymor Realty Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, 95 x 122 ft., brick, steel and stone, plain foundation, Allerton Ave., by day labor. $250,000.

N. Y., New York—Office—Equitable Trust Co., 37 Wall St., 34 story, brick, steel and stone, plain foundation, 15 Broad St., to Thompson-Starrett Co., 49 Wall St. Archts. est. $12,000,000.

Buildings—Commercial (Continued)

N. J., Delanco—School—Bd. Educ. Beverley Twp., general contract 1 story and basement, 67 x 76 ft., and 103 x 239 ft., to J. E. Kalster, Beverly, $94,500. Noted Jan. 1.

Pa., Easton—Club House—Loyal Order Moose, 2 story and basement, 60 x 158 ft., brick and steel, plain foundation, South 4th St., to Butz & Clader, Allentown.

Pa., Edge Hill—Church—Carmel Presbyterian Church, stone church, plain foundation, to Bowden Constr. Co., 1935 Chestnut St., Phila. Archts. est. $150,000.

Pa., Phila.—School—Bd. Educ., 19th and Chestnut Sts., general contract 3 story and basement, 80 x 145 ft., rein.-con. and brick addition to Walton School, plain foundation, Huntingdon Ave., 27th and 28th Sts., to W. Langhorne Co., 10 South 18th St., $246,972; heating, to S. Faith & Co., 2427

Pa., Pittsburgh — Court House — Allegheny Co., Court House, general contract alterations and additions to court house, to Landau Bros., 3rd Ave., $241,262.

Louisiana — Passenger Station, etc. — Louisville & Nashville R.R., Louisville, Ky., 100 x 140 ft. passenger station, round house, 63 x 68 ft. machine shop, 2 story, 38 x 50 ft. store and office building, locker building, etc., at Gentille Sta., New Orleans, La., to W. H. Williams Co., Inc., 816 Howard Ave., New Orleans, $150,000 plus.

Ala., Montevallo — Dormitory, etc. — Trustees Alabama College, general contract 2 story and basement, 75 x 150 ft. dormitory and 50 x 75 ft. residence, to Baston & Cook, West Point, Ga., $173,000.

O., Canton—Club—H. L. Porter & R. McNally, archts., 330 Euclid Ave., Cleveland, 4 story and basement, 50 x 113 ft., brick, steel and concrete, 6th St. N. W., here, to E. J. Landor Co., Renkert Bldg., for Knights of Columbus. Archts. est. $200,000. Noted Oct. 2.

O., Cleveland—Restaurant and Office—Childs Co., 200 5th Ave., New York City, 2 story, 66 x 280 ft., brick, steel and stone, plain foundation, to Crowell & Little Constr. Co., 3751 Prospect Ave., Cleveland. Noted Oct. 23.

O., Cleveland—Store and Commercial—Colonial-Taylor Impvt. Co., c/o L. Abrams, Engineers Bldg., 2 story, brick and steel, 615 Prospect Ave., to Super-Built Constr. Co., 1836 Euclid Ave. Archts. Estimated cost $150,000. Noted Oct. 30.

Mich., Highland Park (Detroit P. O.)—Library—Library Comn., 20 Gerald Ave., 2 story and basement, rein.-con., brick, steel H. Prenzlauer, secy. Wayne Co. Supt. of Ave. to Martin Krausmann Co., 501 Guarantee Trust Bldg., Detroit. $278,000. Noted Dec. 18.

Mich., Pontiac — School — R. Hazelton, bus. mgr. Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation, Summitt St., to Pryale Constr. Co., Commercial Bank Bldg., about $150,000. Noted Dec. 18.

Ill., Carbondale—Gymnasium—Bd. Pub. Wks., Springfield, at Southern Illinois State Normal University, Carbondale, 2 story and basement, 90 x 126 ft., rein.-con., brick and stone, to J. H. Hunzinger, 409 Security Bldg., Davenport, Ia. Archts. est. $150,000. Noted Nov. 13.

Ill., Normal—Gymnasium—Normal State University, 1 story and basement, brick and rein.-con. gymnasium, to Lind Constr. Co., 6404 South State St., Chicago. Archts. est. $150,000.

Ill., Waukegan—Office, etc.—J. A. Miller, 206 Washington St., 2 story and basement, 100 x 137 ft., rein.-con., brick and stone, Water and Genesee Sts., to R. E. Maki, 627 McAllister St. Archts. est. $175,000. Noted Nov. 6.

Wis., Antigo—Hotel—S. J. McMahon, 425 East Water St., Milwaukee, will build 3 story and basement, 77 x 140 ft., brick, tile and concrete addition to Butterfield Hotel, plain foundation, by day labor. $200,000. Smith & Brandt, Dempsey Bldg., Manitowoc, archts. Noted Jan. 1.

Wis., Eau Claire—Theatre—Eau Claire Theatre Co., 409½ South Barstow St., 2 story and basement, brick and concrete, plain foundation, East Grand Ave., to Hoeppner-Bartlett Co., 414 Grand Ave. Archts. est. $150,000. Noted Nov. 27.

Wis., Kohler—Warehouse—Kohler Co., 4 story, 82 x 140 ft., brick and timber, plain foundation, to F. Radloff Co., Plymouth. Archts. est. $150,000.

Tex., Houston — Library—City, O. F. Holcombe, Mayor, 3 story, brick and steel library addition, plain and concrete pile foundation, Smith and McKinney Sts., to Tellepsen Constr. Co., Rice Institute, $150,000. Noted July 21.

Wash., Seattle—Apartment—H. Smith, c/o E. A. Roberts, archt., Burke Bldg., 7 story and basement, 80 x 102 ft., rein.-con., 4002 15th St. N. E., to Walter & Brady, Hoge Bldg. Archts. est. $350,000.

SEWER—LOUISVILLE, KY.

Bids were opened (lowest 3) by Comrs. of Sewerage for constructing Central Relief Drain, Contr. No. 16, (A) Hammen Constr. Co., 4612 Woodward Ave., Detroit, Mich. (awarded contract); (B) Wenzel-Henoch Co., Milwaukee, Wis.; (C) Walb Constr. Co., LaGrange, Ind. The unit bids are as follows:

	A	B	C
4,243.95 lin.ft. earth excavation and backfill	$45 50	$60 00	$53 60
225.05 lin.ft. earth excavation and backfill	44 55	100 00	79 62
590 cu.yd. earth excavation and backfill	9 45	20 00	9 00
335 cu.yd. earth excavation and backfill	6 75	20 00	13 75
210 cu.yd. earth excavation and backfill	6 75	10 00	5 00
100 cu.yd. earth excavation and backfill	9 45	20 00	7 50
5,315 cu.yd. class "A" concrete masonry	35 10	25 00	28 30
325 cu.yd. class "A" concrete masonry	27 00	30 00	38 30
30 cu.yd. class "A" concrete masonry	33 75	30 00	48 00
55 cu.yd. class "A" concrete masonry	94 50	30 00	48 00
200 cu.yd. class "C" concrete masonry	18 90	20 00	22 50
325 cu.yd. hydrated lime class "A"	1 35	1 00	1 25
15 cu.yd. brick masonry	27 00	35 00	25 00
440,900 lbs. reinforcing bars	0 054	0 06	0 10
4,800 lb. reinforcing bars	0 054	0 06	0 10
17,400 lb. reinforcing bars	0 054	0 06	0 10
6 tons steel shee piling	135 00	300 00	150 00
120 cu.yd. earth excavation below sewer	6 75	20 00	15 00
120 cu.yd. gravel refill below sewer	6 75	5 00	15 00
$450.00 A.S.T.M. clay pipe	32%	50%	25%
100 lin.ft. laying with cement mortar	0 67	4 00	2 25
100 lin.ft. laying with plastic comp	0 67	6 00	4 00
700 ft. 4 in. laying underdrain	1 69	2 00	4 80
600 ft. 8 in. laying underdrain	1 69	2 50	4 80
5,700 lin.ft. timber piles	1 35	1 00	1 40
10,500 ft. B.M. sheeting bracing	81 00	60 00	75 00
45 sq.yd. vitrified block paving	5 40	5 00	8 40
295 sq.yd. asphalt paving	5 40	5 00	8 40
70 sq.yd. granite block paving	5 40	6 00	9 00
Cleaning up (lump sum)	$2,700	$2,500	$2,500
Extended totals	$462,957	$496,828	$501,700

Calif., Beverly Hills — Hotel — Boyce-Seeley Constr. Co., Pacific Finance Bldg., Los Angeles, will build 3 story, 115 x 135 ft., brick hotel, by day labor. $200,000.

Calif., Los Angeles—Apartment—H. R. Palmer, 4374 West 3rd St., will build 4 story and basement, 76 x 125 ft., brick, San Marino and Elden Sts., by day labor. $150,000.

Calif., Los Angeles—Loft—Sun Realty & Finance Co., 11 story, basement and subbasement, 107 x 330 ft., steel and rein.-con., 7th St., to Scofield Eng. & Constr. Co., Pacific Finance Bldg., $1,905,000. Barker Bros. Furniture Co., Los Angeles, lessee.

Calif., Los Angeles—Office—Seventh & Main Building Co., c/o Curlett & Beelman, archts., Union Bank Bldg., steel contract for 13 story and basement, 80 x 175 ft., rein.-con. office building, 7th and Main Sts., to Baker Iron Wks., 912 North Bway., approximately $125,000. Noted May 1.

Calif., Los Angeles—Store and Apartment—E. D. Henderson, 1241 North Vine St., 5 story and basement, 110 x 290 ft., brick and concrete, North Vine St., to Bard & Co., 421 Union Oil Bldg., approximately $400,000.

Calif., Los Angeles—Store, Office and Theater—F. A. Miller, general contract 3 story, 115 x 140 ft., rein.-con., stone and brick, Figueroa St. and Santa Barbara Ave., to Winter Constr. Co., 200 Los Angeles Ry. Bldg., $300,000.

Calif., Los Angeles—Store and Loft—Birkel Co., 446 South Bway., 5 story, 50 x 150 ft., rein.-con., 15th and Los Angeles Sts., to W. D. Lee, 401 Sun Bldg.

Calif., Los Angeles—Store and Office—Pacific Finance Corp., c/o Curlett & Beelman, archts., Union Bank Bldg., 12 story and basement, 100 x 165 ft., brick and steel, Hope St., to Scofield Eng. & Constr. Co., Pacific Finance Bldg., $1,500,000; steel contract, to Llewellyn Iron Wks., Main and Redonda Sts. Noted Jan. 15.

Calif., Oakland—Office and Store—R. H. Howden & Son, 1117 Webster St., 2 story and basement, 68 x 150 ft., concrete and tile, 17th and Webster Sts., to McWethy & Greenleaf, 2910 Telegraph Ave., $155,000.

Calif., San Bernardino—Warehouse—Associated Truck & Warehouse Co., 2 story, 125 x 200 ft., rein.-con., E St., to G. Herz Co., 8th and E Sts., approximately $150,000.

Calif., San Francisco — Apartment — Matthies & Gale, 180 Jessie St., will build 6 story and basement, rein.-con., Green and Webster Sts., by day labor. $150,000 or more.

Calif., Santa Monica—Club—Edgewater Club, 7 story and basement, rein.-con., Pico Bldg., to Winter Constr. Co., 2400 West 7th St., Los Angeles, $425,000.

Federal Government Work

PROPOSED WORK

Calif., San Francisco—Barracks—U. S. Government, having plans prepared by Constructing Quartermaster, Fort Mason, 2 story and basement, rein.-con. barracks, Presido St.

BIDS DESIRED

Mass., Boston—Seawall and Breakwater—Feb. 16, by Treas. Dept. at office Supervising Archt., Wash., D. C., rebuilding seawall, constructing breakwater and dredging and replacing fender piles at U. S. Quarantine Sta., here; adv. E. N.-R. Jan. 22.

Pa., Phila.—Steel Hull—Mar. 6, by U. S. Engineer Office, 1505 Race St., constructing one steel hull, 20 in. pipe line dredge; adv. E. N.-R. Jan. 22.

Pa., Pittsburgh—Deck Barges—Feb. 14, by U. S. Engineer Office, three 80 ft. steel deck barges; adv. E.N-R. Jan. 22.

Del., Wilmington—Dredging—Feb. 10, by U. S. Engineer Office, War Dept., Wash., D. C., dredging in Tuckerton and Absecon Creeks, and Tom's River, N. J.

Md., Baltimore—Dredging—Feb. 20, by U. S. Engineer Office, dredging in Baltimore Harbor and channels; adv. E. N.-R. Jan. 22.

Mich., Saginaw—Post Office—Feb. 13, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and extending post office, here; adv. E. N.-R. Jan. 22.

Ill., Oak Park — Storage — Feb. 9, by Treas. Dept. at office Supervising Archt., Wash., D. C., constructing new storage room, etc., at Post Office, here.

Virgin Island, St. Thomas—Oil Engine—Feb. 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., oil engine, here. Noted Jan. 8.

BIDS RECEIVED

N. Y., Brooklyn—Incinerator—Spec. 5052—Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing incinerator plant and chimney from Ballard Sprague & Co., 200 5th Ave., New York City, (1) $37,875 (4) $575 (5) $14,590. Noted Dec. 11.

N. Y., New York—Dredging—Spec. 5060—Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at Navy Yard, here, from Morris & Cumings Dredging Co., 15 Moore St., (1) $0.285 (2) $0.244. Noted Jan. 8.

Va., Norfolk—Alterations—Spec. 5061—Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to cafeteria in hospital, here, from J. Tevos, 116 West 20th St., $1,075. Noted Jan. 8.

O., Cincinnati—Towboats—U. S. Engineer Office, 405 Customhouse, two 70 ft. Diesel electric sternwheel towboats, from Nashville Bridge Co., Nashville, Tenn., $127,480. Noted Dec. 11.

Tex., Galveston—Radio Station—Spec. 5036—Bureau Yards & Docks, Navy Dept., Wash., D. C., naval radio compass station, here, from J. E. Lingo & Son, foot of Elm St., Camden, N. J., $1,640. Noted Jan. 1.

CONTRACTS AWARDED

Mass., South Boston (Boston P. O.) — Sewerage System — Spec. 5043 — Bureau Yards & Docks, Navy Dept., Wash., D. C., sewerage system at Dry Dock, here, to Walworth English Flett Co., 81 Commercial Wharf, Boston, $27,157 (210 days).

Pa., Phila.—Storehouse—U. S. Engineer Office, War Dept., Wash., D. C., constructing storehouse at Ft. Mifflin, to W. L. Morrison, 613 15th St. N. W., Wash., D. C., $22,400. Noted Dec. 25.

Federal Government Work (Continued)

Fla., Miami—Post Office, Court House, etc.—Treas. Dept. at office Supervising Archt., Wash., D. C., extending and remodeling post office, to W. P. Thurston Co., Inc., Richmond, Va., $21,635. Noted Jan. 8.

Ala., Florence—Steel, etc.—U. S. Government, P. F. Samuel, chief of Supply Div., approximately 140 tons reinforcing, various lengths and sizes, to Knoxville Iron Co., Lonsdale St., Knoxville, Tenn., $9,628; 537 transite asbestos wood doors, to Johns-Manville Co., Madison Ave. and 41st St., New York City, $3,400.

Unclassified

PROPOSED WORK

Ferry Improvements—Boston, Mass.—City Planning Bd., City Hall, plans ferry improvements. $1,000,000. F. H. Fay, chn.

Stadium—Phila., Pa.—City having plans prepared stadium. $2,000,000. Simon & Simon, 249 South Juniper St., archts.

Golf Course—Virginia Beach, Va.—See "Buildings—Commercial."

Underpass—Durham, N. C.—R. W. Rigsbee, city mgr., Southern Seaboard Air Line, and Norfolk & Western Rys., having plans and surveys made underpass on Chapel Hill St. beneath above railroad tracks, here.

Power Development—North Wilkesboro, N. C.—Central Power Co., Chamber of Commerce, plans hydro-electric development on New and Reddie Rivers, about 14 mi. from here, incl. 1 or more dams, diversion of New River into Reddie River, tunnel, etc.

Suburban Development—Raleigh, N. C.—Wilson Park, Inc., Raleigh, plans developing Fisher property as suburb in northeastern part of city, incl. sewers, water lines, streets and sidewalks. $125,000. D. F. Fort, Jr., 557 Newbern Ave., pres.

Power Development — Saluda, N. C. — Blue Ridge Power Co., c/o J. A. Law, managing dir., Spartanburg, S. C., plans hydro-electric power development, dam across Green River, 13,000 ft. tunnel, power house, two 35,000 hp. electric generators, 4 mi. east of here. $3,500,000. Mees & Mees, Kinney Bldg., Charlotte, engrs.

Underpass — Spencer, N. C. — Southern R.R., 13th St. Pennsylvania Ave., Wash., D. C., plans underpass here to connect with East Spencer. $64,000. H. Miller vice pres.

Sea Wall—Mississippi—Harrison Co. Sea Wall Comn., Gulfport, plans 14 mi. sea wall along the beach from Biloxi to Pass Christian. $2,000,000 bonds sold. Engineer not selected.

Electric Light System—Jonesville, La.—See "Waterworks."

Aviation Field, etc.—Nashville, Tenn.—Tennessee Aero Squadron and various civic organizations raising $100,000 funds for aviation flying field, club house, buildings, etc., to be known as "John Harding" aviation field. H. E. House, City Hall, mayor.

Transmission Lines—Ohio—Ohio Serv. Co., Coshocton, plans transmission line from Dover to New Comerstown, connecting up at Dover and extending via Sugar Creek to Millersburg; another line from Dover extending to East Sparta and Mineral City; and a new line from Dover to New Philadelphia. $280,000. J. J. Dolan, mgr.

Elimination of Grade Crossing—Wisconsin — State Hy. Comn., Madison, plans grade crossing separation, on Federal Aid Project 280, Juneau Co. $43,000 allotted.

Fish Pond, etc.—Duck Creek (Green Bay P. O.), **Wis.**—H. Pohtomki, approximately 700 x 800 ft. fish pond, 5 ft. deep, incl. 70,000 cu.yd. excav., two 12 in. wells to be drilled, and crane and weighing machine installed, to C. B. Rasmussen, New London, Wis. Engrs. est. $70,000.

Harbor Improvements, Park, etc.—Milwaukee, Wis. — Budget for 1925 adopted and includes $1,500,000 bonds for harbor improvements; $1,000,000 bonds for grade crossing abolition; $250,000 bonds to purchase land and improve park, and $80,000 bonds for extending street lighting system.

Gas System—Comanche, Tex.—Voted $50,000 bonds to supply fuel gas system and laying mains, laterals, etc. J. R. Eaves, mayor. Engineer selected soon. Noted Dec. 25.

Grain Elevator—Houston, Tex.—Turning Basin Navigation Dist., c/o H. L. Washburn, having revised plans prepared and soon takes new bids rein.-con. grain elevator. $1,000,000. Former bids rejected. J. A. Schiller, Court House, and J. S. Metcalf Co., 608 South La Salle St., Chicago, Ill., engrs.

Golf Links, etc.—Sherman, Tex.—See "Dams."

Stadium — Palo Alto, Calif. — Stanford University plans enlarging stadium. To exceed $150,000.

Pier Extension—San Francisco, Calif.—State Bd. Harbor Comrs., Ferry Bldg., making plans 250 ft. extension to Pier 40, incl. installation 2 railroad tracks. F. G. White, Ferry Bldg., ch. engr.

Sea Wall—San Francisco, Calif.—State Bd. Harbor Comrs., Ferry Bldg., soon takes bids loose rock seawall, etc. F. G. White, ch. engr. Noted Oct. 30.

Power Development—Valleyfield, Que.—Montreal, Cotton Co., Valleyfield, plans power development, incl. 4 wheels 5,000' hp. and concrete dam. $750,000. Beaubien, Busfield & Co., 2 Place D'Armes, Montreal, engr.

BIDS DESIRED

Tunnels, etc.—Providence, R. I.—Jan. 29, by Narragansett Electric Light Co., Turks Head Bldg. intake and discharge tunnels, screen well, sewers, turbine hall foundations, etc. Jenks & Ballou, 10 Weybosset St., engrs.

Street Lighting System — Los Angeles, Calif. — Bd. Pub. Wks. taking bids 143 pressed steel standards on Highland Ave. between Cahuenga Ave. and Santa Monica Blvd. To exceed $25,000.

Bulkhead—San Diego, Calif.—See "Excavation, Drainage, Irrigation, Levees."

Excavation and Piling — San Francisco, Calif.—C. Werner, archt., Santa Fe Bldg., taking bids for excavation and piling for Embarcadiro Club, 8 story and basement, rein.-con., for Army and Navy Y. M. C. A., Golden Gate Ave. and Leavensworth St. $1,000,000. Noted July 31 under "Buildings—Commercial."

BIDS RECEIVED

Station Finish, etc.—New York, N. Y.—Bd. Transportation, 49 Lafayette St., Jan. 15, station finish work for part of Rapid Transit R.R., from Charles Meads & Co., 217 West 14th St., $96,449; also removal of elevated railroad columns at Bway. and Spuyten Duyvil Parkway, Bronx Boro., from Buckingham Steel Co., Inc., 5718 2nd Ave., Brooklyn, $1,255.

Ornamental Street Lighting System—Los Angeles, Calif.—From J. C. Perry, 721 Detwiler Bldg., ornamental street lighting system on 6th St. between Vermont Ave. and Gramercy Pl. $40,940; from S. N. Prescott, 1030 Wilshire Blvd., Santa Monica, Beverly Blvd. between Vermont and Western Aves. $39,548, portions of 16th St. $20,178, Anaheim St. $16,833, Windsor Blvd. $10,932, Keniston Ave. $4,048, Mullen Ave. $3,245; from G. W. Kemper, P. O. Box 126, Alhambra, 16th St. between Normandie and Western Aves. $29,320, portion of Highland Ave. $16,000, McCadden Pl. $8,750, North Ave. $4,900, 3rd St. between Muirfield Rd. and La Brea Ave. $26,900. Noted Dec. 16.

Ornamental Street Lighting System—Los Angeles, Calif.—Supervs. Los Angeles Co., Jan. 5, 93 pressed steel posts, cables, conduits, etc., on Whittier Blvd. between Indiana St. and Pasadena Ave., from G. W. Kemper, P. O. Box 126, Alhambra, $39,400. Noted Dec. 25.

CONTRACTS AWARDED

Heating and Ventilating—Brooklyn, N. Y.—See "Buildings—Commercial."

Heating—Phila., Pa.—See "Buildings—Commercial."

Foundation — Cleveland, O. — W. S. Ferguson Co., archts. and engrs., 1900 Euclid Bldg., foundation for 10 story and basement, 135 x 320 ft., brick, steel and concrete office, auto sales and service building, Euclid Ave., to S. W. Emerson Co., 1836 Euclid Ave., for Motors Realty Co., c/o G. G. G. Peckham, pres., 1903 East 19th St. Noted Jan. 1.

Coal Handling Equipment—Detroit, Mich.—Pub. Lighting Comn., East Atwater St., coal handling equipment in and in connection with new power plant, to Link-Belt Co., 5938 Linsdale Ave., $75,927. Noted Jan. 15.

Culverts—Davenport, Ia.—See "Bridges."

Turbo Generator, etc.—Valley City, N. D.—One 1,000 kw. (Moore) turbo generator, switchboard, etc., to J. G. Robertson & Co., 2542 University Ave., St. Paul, $54,145.

Gas Pipe Line — Texas — Southern Natural Gas Co., Maverick Bldg., San Antonio, 20 mi. 10 in. and 10 mi. 8 in. gas pipe line from McMullen Co. end of present line to new gas fields in Live Oak and San Patricio Counties, to Hope Eng. Co., c/o R. B. Lloyd, supt., San Antonio. $200,000.

Dock—Seattle, Wash.—Amer. Can Co., foot Clay St., 200 ft. creosoted piling dock, 76 ft., and 2 story, 53x200 ft. timber warehouse, to A. W. Quist & Co., Hoge Bldg., $50,000.

Tunnels—Tacoma, Wash.—See "Buildings—Industrial."

Street Lighting System—Burbank, Calif.—See "Streets and Roads."

Bulkheads—Long Beach, Calif.—Southern Pacific R.R., 65 Market St., San Francisco, bulkheads around tract in Long Beach Harbor Dist., to Pan-Pacific Constr. Co., Citizens Natl. Bank Bldg., Los Angeles, approximately $250,000.

Arena—Los Angeles, Calif.—Olympic Athletic Club, c/o G. S. Underwood, engr., I. W. Hellman Bldg., 1 story, 168 x 240 ft., steel and rein.-con. arena, 18th St. and Grand Ave., to A. C. Pillsbury, 1717 Willshire Blvd., approximately $350,000.

Wharf—Martinez, Calif.—Associated Oil Co., 79 New Montgomery St., 50 x 75 ft. wharf and 1,400 ft. approach, 24 ft., 150,000 cu.yd. dredging for turning basin 1,200 ft. long, 400 ft. wide, to San Francisco Bridge Co., Nevada Bank Bldg., San Francisco, cost plus basis. Noted Jan. 15.

Material and Equipment

PROPOSED WORK

Snow Plow, etc.—Dodgeville Wis.—West End Transportation Co., plans to purchase rotary snow plow. $6,000.

Grading Outfit—Prairie Du Chien, Wis.—Crawford Co. voted $4,000 bonds to purchase road machinery, incl. 1 large grading outfit. J. N. Campbell, Bell Center, comr.

Crusher, Grader, etc.—Monroe, Wis.—Green Co. appropriated $10,000 to purchase 1 crusher, 1 large grader and small tools. C. J. Smith, comr.

BIDS DESIRED

Ties and Timber—New York, N. Y.—Jan. 30, by Bd. Transportation, 49 Lafayette St., ties and timber for use in construction of Rapid Transit R.R. J. H. Delaney, chn.

Barges—Mobile, Ala.—Jan. 30, by Alabama State Docks Comn., 200 State Office Bldg., Mobile, two 2,000 bbl. steel barges. W. L. Sibert, chn.

Gravel—Baton Rouge, La.—Feb. 2, at office State Hy. Comn., Reymond Bldg., 10,334 cu.yd. sand clay gravel and as alternate 3,448 cu.yd. washed gravel and 6,896 cu.yd. 40% sand clay gravel for surfacing State Project R-15, Orny-Frenier Highway, St. John the Baptist Parish. W. B. Robert, state engr.

Crane—Milwaukee, Wis.—B. E. Kaestner, pres., Clayton-Kaestner Sand & Gravel Co., 981 North Pierce St., taking bids 1 clam shell crane for loading gravel.

Paver—Wauwatosa, Wis.—H. Hohensee, Ludington Ave., in market for 2-bag gasoline full or ½ caterpillar paver.

Graders—Fairmont, Minn.—Feb. 4, by W. M. Canfield, aud. Martin Co., 8 patrol graders equipped with 8 ft. blades.

Tractors, etc.—Minneapolis, Minn.—Jan. 27, by F. S. Gram, city purch. agt., one 10 ton caterpillar tractor and five combination grader-scarifiers for 13th Ward, also 3 rotary fire pumps for Fire Dept. N. W. Elsberg, city engr.

Asphalt Surface Heaters—Los Angeles, Calif.—Jan. 28, by City Purchasing Agent, 1 or more asphalt surface heaters.

BIDS RECEIVED

Cement, Trucks, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., Jan. 19, 20,000 bbl. Portland cement, from Anderson Brick & Supply Co., 201 East 129th St., $13,750; 6 motor trucks, from International Harvester Co., Grand Central Palace, $27,270; 3 portable air compressors, from C. Hvass & Co., 508 East 9th St., $5,397; 3 tandem steam rollers, from Buffalo Springfield Roller Co., 150 Nassau St., $8,235; 14 steel dumping bodies, from Van Dorn Iron Wks., 318 Bway., $3,860. Noted Jan. 15.

Cluster Lights — Seattle, Wash. — For cluster lights on North and East 45th Sts., incl. 106 poles, 4,500 ft. No. 6, 600W Sgl-W., 24,300 ft. No. 8 600W Sgl-W., 200 ft. Duplex cable No. 6, and 36,600 ft. 1½ in. conduit, from Ne Page, McKenny Co., Armour Bldg., $25,938.

CONTRACTS AWARDED

Cement—Wisconsin—State Hy. Comn., Madison, 186,500 bbls. cement, to Universal Portland Cement Co., 210 South La Salle St., Chicago, Ill.; 53,700 bbls. to Lehigh Portland Cement Co., 111 West Washington St., Chicago, Ill.; 21,400 bbls., to Alpha Portland Cement Co., 140 South Dearborn St., Chicago, Ill.; 32,700 bbls., to Marquette Cement Mfg. Co., Marquette Bldg., Chicago, Ill.; 16,250 bbls., to Sandusky Cement Co., Engineers Bldg., Cleveland, O.; 60,600 bbls., to Western Lime & Cement Co., 130 1st Ave., Milwaukee; 92,800 bbls., to Manitowoc Portland Cement Co., Manitowoc; 956 bbls., to Northwestern States Portland Cement Co., Mason City, Ia.

Structural Shapes — Oakland, Calif. — General Petroleum Corp., 310 Sansome St., San Francisco, 200 tons structural shapes for plant at Parr Terminal, here, to Judson Mfg. Co., Atlas Bldg., San Francisco. Noted Nov. 13 under "Buildings—Industrial."

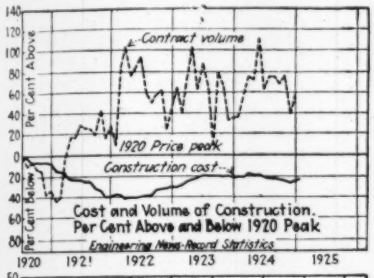
CONSTRUCTION NEWS

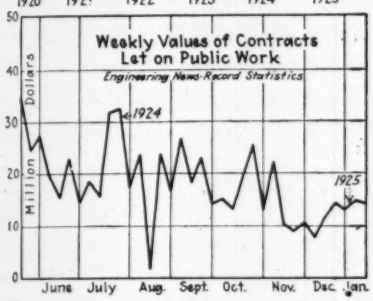
Engineering News-Record, January 29, 1925

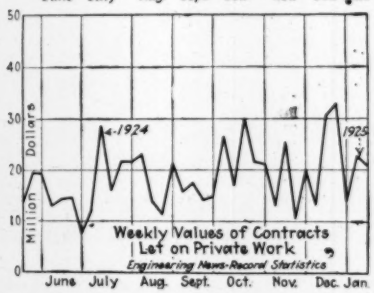
The Construction Barometer

Volume Increasing Despite Rising Cost—Building Outlook for 1925 Is One Of Activity in Industrial, Commercial, Institutional and Public Projects

AN INCREASE in the volume of construction in the presence of advancing cost, as shown by the accompanying chart, is taken as evidence of a construction demand that is by no means satisfied. In the Middle Atlantic states, particularly, there has been a steady gain in contract letting for industrial and private commercial buildings during the past three weeks; this trend will probably continue throughout the greater part of the year. The 1925 building outlook, for the various geographical divisions of the country, is as follows: New England, more commercial buildings; Middle Atlantic states, increased activity in residential and industrial work; the South, mainly institutional and residential building; the West, a greater volume of construction in industrial, recreational, educational, institutional and public projects.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

Value of Large Contracts Let In The United States

Week Ended	Public Work	Private Work	Total Contracts
Jan. 8	$14,802,000	$22,525,000	$37,327,000
Jan. 15	14,189,000	20,722,000	34,911,000
Jan. 22	7,940,000	24,281,000	32,221,000
3 weeks	$36,931,000	$67,528,000	$104,459,000

Large Building Contracts—Number and Value

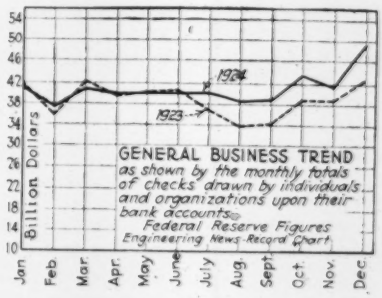
Week Ended	Commercial: Public No.	Commercial: Public Thousand	Commercial: Private No.	Commercial: Private Thousand	Industrial No.	Industrial Thousand
Jan. 8	23	$5,286	31	$15,385	21	$5,517
Jan. 15	11	3,149	45	13,346	15	2,051
Jan. 22	10	2,656	32	21,930	8	1,071
3 weeks	44	$11,091	108	$50,661	44	$8,639

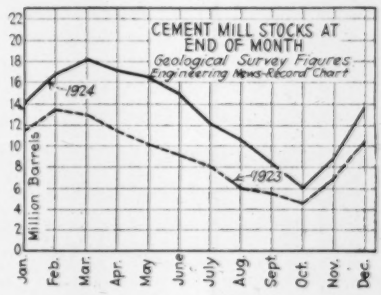
Number Of Large Jobs Now Out For Bids

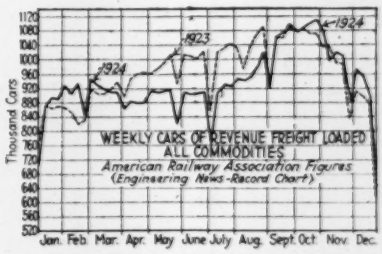
Week Ended	Private	Commercial Buildings	Streets and Roads	Waterworks and Sewers	All Public
Jan. 8	27	28	34	19	125
Jan. 15	27	37	27	36	140
Jan. 22	26	47	48	25	158

Few Changes in Prices of Basic Materials in Two Weeks

	Quoted on Jan. 29 at	Last Price Change Was	On
Structurals, Pittsburgh, 100 lb.	$2.00 @2.10	$1.85 @2.10	Dec. 4
Cement, Chi., net bbl.	2.20	2.10	Jan. 15
Pine, N. Y., M. ft.	60.00	57.00	Jan. 15
Fir., San Fran., M. ft.	29.00	31.00	Oct. 30
Common labor, hr.	.55¼	.56¼	Dec. 25







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
WATERWORKS		
Feb. 3	Buffalo, N. Y.	Jan. 15
Feb. 3	East Stroudsburg, Pa. Adv. Jan. 15 to 29.	Jan. 15
Feb. 3	New York Adv. Jan. 15 to 29.	Jan. 22
Feb. 3	New York, N. Y.	Jan. 29
Feb. 3	Long Island City, N. Y.	Jan. 29
Feb. 3	St. Paul, Minn.	Jan. 29
Feb. 5	Buffalo, N. Y.	Jan. 29
Feb. 5	Bloomfield, Mo.	Jan. 29
Feb. 6	Tarrytown, N. Y. Adv. Jan. 29.	Jan. 29
Feb. 9	Minneapolis, Minn.	Jan. 29
Feb. 11	Providence, R. I. Adv. Jan. 22 and 29.	Jan. 22
Feb. 15	Kansas City, Mo. Adv. Jan. 29.	Jan. 29
Feb. 16	Paducah, Tex.	Jan. 29
Feb. 18	West Jefferson, N. C.	Jan. 22
Feb. 24	Clinton, Mass.	Jan. 22
Mar. 3	Barberton, O. Adv. Jan. 29.	Jan. 29
SEWERS		
Feb. 3	Buffalo, N. Y.	Jan. 29
Feb. 4	San Francisco, Calif.	Jan. 29
Feb. 10	St. Louis, Mo.	Jan. 22
Feb. 16	New Orleans, La.	Jan. 15
Feb. 16	Paducah, Tex.	Jan. 29
Feb. 18	Grand Rapids, Mich. Adv. Jan. 22 and 29.	Jan. 22
BRIDGES		
Feb. 2	Seattle, Wash.	Jan. 29
Feb. 3	Louisiana	Jan. 1
Feb. 4	Alabama	Jan. 15
Feb. 4	Tacoma, Wash.	Jan. 29
Feb. 9	Hackensack, N. J. Adv. Jan. 22 and 29.	Jan. 22
Feb. 9	California	Jan. 22
Feb. 10	Annapolis, Md.	Jan. 15
Feb. 10	Brownsville, Tex.	Jan. 8
Feb. 17	Tampa, Fla.	Jan. 8

Bids Close — See Eng. News-Record

EXCAVATION, DRAINAGE IRRIGATION, LEVEES

Feb. 3 Trenton, N. J. ..... Jan. 15
Feb. 3 Palmdale, Calif. ..... Jan. 29
Feb. 6 Georgia ..... Jan. 29

STREETS AND ROADS

Feb. 2 Pauls Valley, Okla. ..... Jan. 29
Feb. 3 Philadelphia, Miss. ..... Jan. 22
Feb. 3 Shamrock, Tex. ..... Jan. 29
Feb. 4 Brooklyn, N. Y. ..... Jan. 29
Feb. 4 Nevada ..... Jan. 29
Feb. 5 Topeka, Kan. ..... Jan. 15
Feb. 6 Ellendale, N. D. ..... Jan. 22
Feb. 6 Pennsylvania ..... Jan. 22
Adv. Jan. 22 and 29.
Feb. 7 San Antonio, Tex. ..... Jan. 22
Feb. 7 Pennsylvania ..... Jan. 22
Adv. Jan. 22 and 29.
Feb. 9 California ..... Jan. 22
Feb. 10 Quincy, Ill. ..... Jan. 22
Adv. Jan. 22 and 29.
Feb. 10 El Paso, Tex. ..... Jan. 22
Feb. 10 St. Louis, Mo. ..... Jan. 22
Feb. 10 Louisiana ..... Jan. 22
Feb. 10 Houston, Tex. ..... Jan. 29
Feb. 10 Boston, Tex. ..... Jan. 29
Feb. 12 Louisiana ..... Jan. 22
Feb. 16 Peekskill, N. Y. ..... Jan. 22
Adv. Jan. 15 to 29.
Feb. 16 Paducah, Tex. ..... Jan. 29
Feb. 17 St. Louis, Mo. ..... Jan. 22
Feb. 17 Teague, Tex. ..... Jan. 29
Feb. 17 Fairfield, Tex. ..... Jan. 29
Feb. 18 Austin, Minn. ..... Jan. 29
Feb. 24 Peru, Ind. ..... Jan. 22
Feb. 24 Urbana, Ill. ..... Jan. 29
Feb. 25 Kernersville, N. C. ..... Jan. 29
Feb. 26 Philadelphia, Miss. ..... Jan. 29
Feb. 26 Kenosha, Wis. ..... Jan. 29

BUILDINGS—INDUSTRIAL

Feb. 2 San Bernardino, Calif. ..... Jan. 15
Mar. 1 Youngstown, O. ..... Jan. 15

BUILDINGS—COMMERCIAL

Jan. 30 Jamaica Plain (Boston P. O.), Mass. ..... Jan. 22
Jan. 30 Providence, R. I. ..... Jan. 29
Jan. 31 Phila., Pa. ..... Jan. 29
Feb. 2 Charlottesville, Va. ..... Jan. 29
Feb. 2 Lowell, Mass. ..... Jan. 29
Feb. 2 New Orleans, La. ..... Jan. 29
Feb. 3 Winston Salem, N. C. ..... Jan. 15
Feb. 4 Kings Park, N. Y. ..... Jan. 15
Adv. Jan. 15 to 29.
Feb. 4 Fond du Lac, Wis. ..... Jan. 22
Feb. 4 San Fernando, Calif. ..... Jan. 29
Feb. 4 Freehold, N. J. ..... Jan. 29
Feb. 5 Brooklyn, N. Y. ..... Jan. 22
Feb. 5 Albion, Mich. ..... Jan. 22
Feb. 5 Albany, N. Y. ..... Jan. 29
Feb. 6 Lomita, Calif. ..... Jan. 29
Feb. 7 Detroit, Mich. ..... Jan. 29
Feb. 9 Delanco, N. J. ..... Jan. 29
Feb. 10 Kearney, Neb. ..... Jan. 29
Feb. 10 Akron, N. Y. ..... Jan. 22
Feb. 15 Youngstown, O. ..... Jan. 15
Feb. 17 Collingwood, Ont. ..... Jan. 22
Feb. 17 Wilmington, Del. ..... Jan. 22
Adv. Jan. 22 and 29.
Feb. 19 Jamaica, N. Y. ..... Jan. 29

FEDERAL GOVERNMENT WORK

Jan. 30 Post Office—Fulton, N. Y. .. Jan. 8
Jan. 30 Stone — Newburyport, Mass. ..... Jan. 29
Jan. 31 Lock Gates—Florence, Ala. .. Jan. 1
Adv. Dec. 25 to Jan. 29.
Jan. 31 Jetty Repairs—Galveston, Tex. ..... Jan. 8
Adv. Jan. 8 to 29.
Feb. 2 Air Compressors—Detroit, Mich. ..... Jan. 29
Feb. 4 Repairs — Puget Sound, Wash. ..... Dec. 18
Feb. 4 Pier—Bremerton, Wash. .. Dec. 25
Feb. 6 Post Office—Clarksburg, W. Va. ..... Jan. 15
Feb. 7 Iron, Steel, etc.—Wash., D. C. ..... Jan. 29
Feb. 9 Storage—Oak Park, Ill. ... Jan. 22
Feb. 10 Filtration Plant—Tuskegee, Ala. ..... Jan. 15
Feb. 10 Dredging — Wilmington, Del. ..... Jan. 22
Feb. 11 Well Houses — Annapolis, Md. ..... Jan. 8
Feb. 11 Oil Engine—St. Thomas, Virgin Island ..... Jan. 22
Adv. Jan. 29.
Feb. 13 Post Office — Saginaw, Mich ..... Jan. 22
Feb. 14 Deck Barges—Pittsburgh, Pa. ..... Jan. 22
Adv. Jan. 22 and 29.
Feb. 16 Seawall and Breakwater — Boston, Mass. ..... Jan. 22
Feb. 17 Electric Wiring — Gulf, Miss. ..... Jan. 29
Feb. 18 Radio Tower—Cavite, P. I. ..... Jan. 15
Feb. 18 Extension—Keyport, Wash. Jan. 15
Feb. 20 Dredging—Baltimore, Md. . Jan. 22
Adv. Jan. 22 and 29.
Feb. 20 Extensions—Bloomington, Ill. ..... Jan. 29
Adv. Jan. 29.
Feb. 20 Roofings—Florence, Ala. .. Jan. 29
Adv. Jan. 29.
Feb. 24 Service—Memphis, Tenn. .. Jan. 29
Adv. Jan. 29.
Feb. 27 Towboat — Vicksburg, Miss. ..... Jan. 29
Adv. Jan. 29.
Mar. 6 Steel Hull—Phila., Pa. .... Jan. 22
Adv. Jan. 22 and 29.
Mar. 6 Pipeline—Phila., Pa. ..... Jan. 29

UNCLASSIFIED

Feb. 3 Borings—Phila., Pa. ..... Jan. 15
Feb. 4 Fire Sprinklers—Rochester, N. Y. ..... Jan. 15
Feb. 4 Heating Work—Ogdensburg, N. Y. ..... Jan. 15
Feb. 5 Steel—New Orleans, La. ... Jan. 29
Feb. 5 Landing Platform—New York, N. Y. ..... Jan. 29
Feb. 6 Subway, etc.—New York, N. Y. ..... Jan. 29
Feb. 6 Culverts—Georgia ..... Jan. 29
Feb. 24 Refrigeration Works, etc.—Auburn, N. Y. ..... Jan. 29
Adv. Jan. 29.

MATERIAL AND EQUIPMENT

Jan. 30 Ties and Timber—New York, N. Y. ..... Jan. 22
Jan. 30 Barges—Mobile, Ala. ..... Jan. 22
Feb. 3 Gravel—Baton Rouge, La. . Jan. 22
Feb. 3 Creosoted Wood Blocks, etc.—St. Paul, Minn. ..... Jan. 29
Feb. 4 Graders—Fairmont, Minn. . Jan. 22
Feb. 4 Conduit—Baltimore, Md. ... Jan. 29
Feb. 4 Pipe—Baltimore, Md. ..... Jan. 29
Feb. 4 Trucks—Minneapolis, Minn. ..... Jan. 29
Feb. 4 Portland Cement—Waukon, Ia. ..... Jan. 29
Feb. 6 Marker and Posts—Madison, Wis. ..... Jan. 29
Feb. 6 Trucks—Georgia ..... Jan. 15
Feb. 7 Sprinklers and Dump Wagon —Racine, Wis. ..... Jan. 29
Feb. 9 Pipe Line—Mobile, Ala. ... Jan. 29
Feb. 9 Pipe—Nelson, B. C. ..... Jan. 29
Feb. 9 Trucks, etc. — Memphis, Tenn. ..... Jan. 29
Feb. 9 Road Oil, etc.—Memphis, Tenn. ..... Jan. 29
Feb. 10 Tractor—Ballinger, Tex. ... Jan. 15
Feb. 10 Generator—New Orleans, La. ..... Jan. 29

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Bayville—Voted $122,500 bonds for water supply system. S. B. Bowne, Mineola, engr.

N. J., East Paterson—Takes bids about April 1, water distribution system and stand pipe. H. J. Harder, 129 Market St., Paterson, engr. Noted June 26.

W. Va., Westover—See "Sewers."

Fla., Miami—Election Jan. 29, $250,000 bonds for water softening and filtering plant. H. E. Ross, city clk.

Ala., Tuscaloosa — Sold $175,000 bonds, waterworks improvements. Noted Oct. 9.

Tenn., Milan—Plans election soon $50,000 bonds, extending waterworks and electric light plant.

O., Cincinnati—Hamilton Co. plans 7,778 ft. 6 and 8 in. c.i. mains in Water Supply Line 9, Dist. 1, Montgomery Rd. $18,837. L. C. Boyatt, Court House, engr.

O., Cleveland — Takes bids in spring, 5,160 ft., 36 in. c. i. or steel mains in West 105th and 106th Sts., $121,000; and 15,250 ft. 24 in. c. i. or steel mains in Euclid and Terrace Rds., $196,000. A. V. Ruggles, City Hall, engr.

Ill., Lebanon — Made plans distribution system, deep wells, pumping equipment, tank on tower, etc. $50,000. Caldwell Eng. Co., 502 Ayers Bank Bldg., Jacksonville, engrs.

Ill., Newton—Takes bids in June or July, filtration plant, equipment, etc. $50,000. Caldwell Eng. Co., 502 Ayers Bank Bldg., Jacksonville, engrs.

Ia., Ottumwa — Plans waterworks improvements, incl. main extensions, hydrants, etc. $20,000. H. A. Brown, supt. waterworks.

Neb., Bellevue—Defeated $27,300 bonds for waterworks, etc. Noted Jan. 1.

Neb., Omaha—Plans extending 21,000 ft. 48 in. mains from 28th Ave. and Plant St. to 30th and Hamilton Sts. $714,000. J. A. Bruce, city engr.

Ark., Foreman—Plans new waterworks. $30,000. Engineer not selected. O. W. Gillerman, mayor.

Ark., Prairie Grove—Making preliminary plans new waterworks. $35,000. Engineer not selected.

Tex., Amarillo—Election Mar. 7, $1,750,000 bonds for reservoir and distributing system. H. B. Jones, city engr. Noted Jan. 22.

Tex., Brady — Election Feb. 3, $100,000 bonds for waterworks extensions and improvements. E. L. Jones, mayor.

Tex., Greenville — Election Feb. 10, $400,000 bonds reservoir, intake, pipe line, filtration plant and extending distributing system. Elrod Eng. Co., 3124 Main St., Dallas, engrs.

Tex., Hillsboro—Election soon $25,000 bonds for water and sewer extensions. Engineer not announced.

Tex., Houston — Election soon $500,000 bonds for concrete and steel reservoir, 2 new pumping plants and equipment. J. C. McVea, city engr. Noted Jan. 15.

Tex., Lone Oak—J. E. Rabb, mayor, soon takes bids waterworks. $50,000. Municipal Eng. Corp., Praetorian Bldg., Dallas, engrs.

Tex., Roby—Voted $40,000 bonds improving waterworks, extending mains, pumping station, etc. Engineer not selected.

Okla., Claremore — Plans new supply mains, enlarging filter plant and additional pumping equipment. $60,000. Burns & McDonnel Eng. Co., Interstate Bldg., Kansas City, Mo., engrs. Noted Jan. 8.

Okla., Weleetka — Making preliminary plans new water softening plant and equipment. $7,000. F. Harding, Weleetka, engr.

Wash., Aberdeen—City Council ordered immediate survey of site to provide additional 15 m.g. reservoir.

Wash., Tacoma—City Water Dept. plans expending $300,000, for replacing 60 in. wooden stave pipe on granity line between Palmer Junction and headworks on Green River with steel pipe, also replacing wooden mains throughout city with steel pipe, etc.

Calif., Eureka—Bd. Pub. Wks., J. Griffiths, supt., plans to purchase 10,000 ft. 2 in. standard black or standard galvanized pipe, random lengths, 2,500 ft. 3 in. standard or standard galvanized pipe, for Water Dept.

Calif., Los Angeles — Voted $1,300,000 bonds, water system, incl. reservoirs to 1,450 ft. elevation or 600 ft. higher than at present, in Laurel Canyon Water Dist. Noted Dec. 25.

Calif., Perris—Plans 500,000 gal. reservoir for water system. J. P. Flynn, city engr.

Calif., Riverside—City plans to appropriate $200,000 or more funds for 20 m.g. reservoir.

Calif., Sacramento — Making plans concrete chamber wall 25 ft. high, 190 ft. long, for filtration plant, one hundred and seventy-five 50 ft. concrete piles, 2,400 cu. yd. concrete. A. J. Wagner, city engr.

Ont., Tilbury—Michigan Central Ry., St. Thomas, plans heavy steel waterworks system between tracks, here. $30,000. A. Leslie, St. Thomas, engr.

BIDS DESIRED

N. Y., Buffalo — Feb. 5, by Comn. Pub. Wks., 1,633 tons 4- to 16-in. c.i. pipe, 107 tons c.i. specials, 150 hydrants, five hundred eighty-three 4- to 16-in. gate valves. G. C. Andrews, Ward Pumping Sta., engr.

N. Y., Long Island City—Feb. 3, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Wolley and 150th Places, Queens Lane, Little Neck and Kendrick Rds., Skillman, 4th, Gould, Griffith, Stafford, Locke and 62nd Aves., Bliss, Carolin, Saunders, Troutman, Wade, 88th, 101st, 165th and 168th Sts., here.

N. Y., New York—Feb. 3, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in White Plains Rd., Henwood Pl., Mosholu Parkway South, Barnes, Blondell, Brady, Cromwell, Duryea, Fowler, LaSalle, Manning, Matthews, Neill, Roberts Thieriot, 3rd and Walton Aves., Marine, Melville, Merrill, Palmer and East 153rd Sts., Bronx Boro.

N. Y., Tarrytown—Feb. 6, by Bd. Water Comrs. of Fairview Water Dist. at office Town Clerk of Greenburgh, 19 North Bway., Tarrytown, water supply system, pumping station, 12 mi. mains, etc. Wulff Eng. Co., Natl. Bank Bldg., engrs.; adv. E. N.-R. Jan. 29.

O., Barberton—Mar. 3, at office of J. T. Mentzer, dir. Pub. Serv., earth dam with instake spillway, gravity supply line, etc., to store and deliver water to water purifi-

Waterworks (Continued)

ation plant. W. G. Clark, 1046 Spitzer Bldg., Toledo, consult. engr.; adv. E. N.-R. Jan. 29.

Ill., Bartlett—Jan. 26, at Village Hall, distribution system, incl. 13,931 ft. 6 and 8 in. mains, nineteen 6 and 8 in. gate valves, 23 new fire hydrants, etc. Suhr & Berryman, Suite 309 Reaper Block, 105 North Clark St., Chicago, engrs.

Minn., Minneapolis — Feb. 9, by F. S. Gram, city purch. agt., 297 tons c.i. water pipe, 7,000 or more curb and corporations cocks, and about 8 to 10 venturi meters.

Minn., St. Paul—Feb. 3, by H. W. Austin, city purch. agt., 2,700 disc type cold water meters, concrete conduit, intake chamber and terminal chamber, for Water Dept.

Mo., Bloomfield — Feb. 5, by W. A. Humphrey, city clk., City Hall, 10,446 ft. 6 in., 12,000 ft. 4 in. and 700 ft. 2 in. c.i. pipe, 18,000 lbs. c.i. specials, twelve 6 in., six 4 in. and nine 2 in. valves and boxes, and 49 fire hydrants. J. P. Davies, Central Trust Bldg., Jefferson City, engr. Noted Dec. 11.

Mo., Kansas City—Feb. 15, by Bd. Fire & Water Comrs., additional water supply incl. river intake, 100 m.g.d. filter plant, pressure tunnels, steel pipe lines and pumping stations. Fuller & Maitland, engrs.; adv. E. N.-R. Jan. 29.

Tex., Claude—Taking bids new waterworks. $45,000. Gantt-Baker & Co., 1116 Main St., Oklahoma City, Okla., engrs.

Tex., Houston—O. F. Holcombe, mayor, taking bids 8 in. main in Almeda Rd. and Sul Ross Ave. to city limits, and 12 in. main in Heiner and Sabine Sts. with necessary stubs at street intersections. $30,000. J. C. McVea, city engr.

Tex., Paducah—Feb. 16, by P. E. Godfrey, city secy., waterworks, sewers, etc. $160,000. Gantt-Baker & Co., 1st Natl. Bank Bldg., Oklahoma City, engrs. Noted Jan. 1.

BIDS RECEIVED

N. Y., Buffalo—Commissioner Pub. Wks., Jan. 19, 5 surface condensers in Ward Pumping Sta., from Worthington Pump & Mchy. Co., 115 Bway., New York City, $69,250. Noted Jan. 15.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Jan. 20, mains in Duncan and East 213th Sts., Allerton, Arnow, Byron, Colden, Fish, Hill, Hering, Laconia, Lurting, Mace, Mickle, Needham, Nereid, Seymour, Throop, Tenbroeck, Waking and Yates Aves., from C. DeBlasio, 339 7th Ave., Mt. Vernon, $14,889. Noted Jan. 15.

Wis., Milwaukee—Central Bd. Purchases, Jan. 21, from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., 3,060 tons 54 in. straight c.i. pipe at $46.50 per ton, 21.75 tons 54 in. lugged pipe $66.50, and 32 tons special castings $160. Noted Jan. 15.

Wis., Milwaukee—Central Bd. Purchases, Jan. 23, from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., 125 tons special castings, consisting of 3 and 4 ways, curves, etc., at $90 per ton; from W. P. Taylor Co., 218 Ellicott Sq., Buffalo, N. Y., 50 D boxes at $4.90 each, 450 D.D. boxes $5.20, 100 covers $0.75, 300 top sections $1.75, 50 D.D. middle sections $1.40, and 500 extension pieces $0.82, 100 bases $1.45 each. Noted Jan. 15.

CONTRACTS AWARDED

Mass., Boston — Pub. Wks. Dept., City Hall, electrical equipment for 1 and 2 Pumping units at Calf Pasture, Pumping Station, Dorchester, to Westinghouse Electric Co., 10 High St., $41,840. Noted Dec. 18.

Pa., Phila.—Dept. Pub. Wks., Bureau Water, Contr. 724, to J. J. McHugh, 1617 Race St., $21,986; Contr. 732, to P. and A. J. Ellis, 5724 North Marshall St., $427,680. Noted Jan. 22.

Md., Baltimore — Bd. Awards, trench excav. for Water Dept., in North and Northeast Dists., to M. L. Quinn, 5307 York Rd., $28,470; in Northwest Dist., to M. and J. B. McHugh, 4105 Bellview Ave., $76,850; in Western and Southern Dists., to P. G. Ligon, Brighton, $50,075. Noted Jan. 22.

Wis., Janesville—City, 14,199 ft. 4- to 12-in. c.i. pipe to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, Ill.; will lay c.i. mains in Garfield Ave., Ravine, Pease, South High, Wheeler, Logan, North Terrace, Racine, South 3rd, East, North 1st, Wisconsin, Walker and Glen Sts., by day labor. To exceed $15,000.

Wis., Milwaukee—Central Bd. Purchases gate and tapping valves, to Chapman Valve Mfg. Co., 111 West Washington St., Chicago, Ill., $21,582. Noted Jan. 22.

Md., St. Louis—Bd. Pub. Serv., 208 City Hall, 83,000 ft. 60 in. steel pressure conduit and 3,000 ft. 48 in. pipe, from Howard Bend on Missouri River in St. Louis Co. to city of St. Louis, to B. Hayes, Inc., Detroit, Mich., $1,800,495. Engrs. est. $1,991,000. Noted Jan. 22.

Okla., Hollis—Waterworks and distribution system, c.i. mains, to U. S. Cast Iron Pipe & Fdry. Co., Magnolia Bldg., Dallas, Tex.; trench and backfill, to W. M. Edwards Co., Oklahoma City.

Okla., Wetumka—New purification and power plants, basins, 4,900 ft. 6- to 10-in. c.i. pipe, 14 valves, 4 motor driven pumps, two 400 hp. engines, etc., to Conner Constr. Co., Rialto Bldg., Kansas City, Mo., $105,-374. Engrs. est. $115,000. Noted Jan. 15.

Que., Hull—See "Sewers."

Sewers

PROPOSED WORK

Fla., Miami—Election Jan. 29, $100,000 bonds for sanitary sewers in various streets. H. E. Ross, city clk.

Mass., Boston—Plans extending and improving sewerage systems throughout city, $1,500,000 or more. F. H. Fay, City Planning Bd., chn.

W. Va., Westover—Soon takes bids sewer and water system, 34,690 ft. 8- to 8-in. pipe, 27 fire hydrants, etc. $95,000. J. V. Funderburk, Morgantown, engr.

Ill., Carterville—Takes bids in May complete sanitary sewerage system, incl. disposal plant, etc. $150,000. Caldwell Eng. Co., 502 Ayres Bank Bldg., Jacksonville, engrs. Noted Nov. 6.

Ill., Dallas City—Takes bids in March, sanitary and storm sewers in various streets, disposal plant, etc. $40,000. Caldwell Eng. Co., 502 Ayres Bank Bldg., Jacksonville, engrs.

Ill., Lebanon — Made plans sanitary sewerage system, disposal plant, etc. $75,-000. Caldwell Eng. Co., 502 Ayers Bank Bldg., Jacksonville, engrs.

Ill., Pittsfield—City Clerk takes new bids in March, complete sanitary sewerage system and disposal plant, etc. $83,000. Caldwell Eng. Co., 502 Ayres Bank Bldg., Jacksonville, engrs. Noted Nov. 13.

Ill., St. Elmo—Making preliminary plans disposal plant, sewer extensions, etc. $66,-000. Caldwell Eng. Co., 502 Ayres Bank Bldg., Jacksonville, engrs.

> ***From San Francisco***
>
> **"Construction very good, both large and small. No wage disputes in building trades and none looked for at present. Next year looks good from all sides."**
>
> ***Construction News Correspondent***

Mich., Sturgis — Made plans surface water sewers, incl. 2,080 ft. 54 in. tile sewer and 1,850 ft. open ditch in South Clay and Florence Sts. $35,000. O. O. Johnston, city mgr.

Wis., Cudahy—Making preliminary plans storm sewer outlet at east end of Van Norman Ave. R. A. Steinhagen, 845 38th St., Milwaukee, engr. Noted Oct. 30.

Minn., St. Paul—Received no bids constructing Bent Line, Phalen and Hazel Park sewerage system, Contr. B, Margaret-Minnehaha Branch. $275,000. H. W. Austin, city purch. agt. Noted Jan. 15.

Ark., Foreman — Plans 5 mi. sanitary sewers. District being organized. $25,000. Engineer not selected. O. W. Gillerman, mayor.

Tex., Crowell—Election Jan. 27, $50,-000 bonds for sewerage system. F. E. Devlin, 614 Bitting Bldg., Wichita, Kan., consult. engr.

Tex., Hillsboro—See "Waterworks."

Okla., Prague—Plans 5 mi. new sanitary sewerage system and disposal plant. $30,-000. Holway Eng. Co., Wright Bldg., Tulsa, engrs. Noted Nov. 20.

Calif., Anaheim—Made plans 12,433 ft. 6- to 10-in. vitr. sewer, etc., in Sewer Extension 35. J. W. Price, city engr.

Calif., Burbank — Plans approximately 100 blocks 8- to 10-in. vitr. sewers, etc. in territory above 3rd St. To exceed $25,-000. A. J. Rose, city engr.

Calif., Santa Monica—Making plans 8- to 10-in. vitr. sewer in Georgina St., etc. To exceed $25,000. H. B. Carter, city engr.

Calif., Vallejo—Making plans main outfall sewer in north section of city, approximately 4,000 lin.ft. 24 or 36 in. pipe, 3,000 lin.ft. 8 in. vitr. pipe, 10,000 cu.yd. excav., etc. T. D. Kilkenny, city engr.

BIDS DESIRED

N. Y., Buffalo—Feb. 3, by Commissioner Pub. Wks., 10- to 48-in. vitr. clay sewers in Starin Ave., St. Lawrence, O'Kell and Clayton Sts. To exceed $25,000. C. E. P. Babcock, Municipal Bldg., engr.

Tex., Paducah—Feb. 16, by Gantt-Baker Co., engrs., 1116-18 West Main St., Oklahoma City, Okla., extending storm sewers in various streets $40,000, sanitary sewerage system $35,000, and disposal plant $40,-000, here, for city.

Tex., Plano—See "Streets and Roads."

Calif., San Francisco—Feb. 4, Bd. Pub. Wks., outfall sewerage system in Great Highway and Vincente St., 330 lin.ft. 24 in. vitr. ironstone pipe encased in rein.-con., 1,396 lin.ft. 21 in. vitr. ironstone pipe with concrete foundation, 1 rein.-con. spillway, 600 lin.ft. 6 in. vitr. ironstone pipe under drain embedded in concrete or broken rock, etc. $35,000. M. M. O'Shaughnessy, city engr.

BIDS RECEIVED

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, Jan. 21, (**e. e. means engineer's estimate**), sewers in West 5th St., from C. F. Vacharas, 645 40th St., 71% e. e. $350; in Lefferts Ave. and 96th St., from Nazzarro & Guerriero, Inc., West 9th St., 69% e. e. $4,233, and 70% e. e. $1,348 respectively; Liberty Ave., from Tomasetti & Co., Inc., 1133 60th St., 78.78% e. e. $9,557; in Bergen Pl., from A. Ialenti, 67% e. e. $2,058.

CONTRACTS AWARDED

Conn., Hamden (New Haven P. O.) — F. W. Wright, town engr., Hamden Memorial, Town Hall, 8- to 24-in. sewer tile, house connections and manholes in Whitneyville Sect., to C. W. Blakeslee & Son, Waverly St., New Haven, $160,422. Engrs. est. $180,000. Noted Oct. 30.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, (**e. e. means engineer's estimate**) to B. Picone & Son, 18th St., sewers in Kings Highway, 74% e. e. $152,745; to A. W. Matarazzo, sewer in East 42nd St., 72.99% e. e. $7,745, Ovington Ave., 67.23% e. e. $4,578, 7th Ave. 74.23% e. e. $350. Noted Jan. 15.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., sewers in Pearson Ave., to Pegno Constr. Co., 380 Freeman Ave., Astoria, $5,134; 154th St., to J. F. Clancy, Inc., 460 Lockwood St., Astoria, $3,770; 116th St., to C. Petracca, 737 Cathleen Court, Brooklyn, $13,502. Noted Jan. 15.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., to Anita Constr. Co., 2975 Marion Ave., sewers in Wilcox Ave. $27,819, East 233rd St. $124,387; to J. V. Timoney Constr. Co., 220 East 201st St., Hobart Ave. $2,790, East 172nd St. $25,902, Cruger Ave. $5,185, Strang Ave. $1,770, Mace Ave. $19,563; to Spadero & Turriamo Co., 3185 East Tremont Ave., Sands Pl. $3,710, Yates Ave. $36,830; to Slack & Slack Corp., Ftele Ave., $30,468. Noted Jan. 15.

Md., Baltimore—Bd. Awards, 9,000 ft. 8- to 72-in. sewers in Dist. H-6, Contr. 70, to Aiello Constr. Co., Gough and 4th Sts., $75,-411. Noted Jan. 22.

Ill., Carbondale — Sanitary sewers for West Side Dist., to Hamilton-Hoffman Constr. Co., Carbondale, $17,986. Noted Nov. 6.

Mich., Pontiac—H. A. Maurer, city clk., 1,500 ft. 36 in. brick and vitr. trunk sewer from Mt. Clemons and Mill Sts. to Oakland Ave., to Walb Constr. Co., La Grange, Ind., $29,635. Noted Dec. 18.

Minn., St. Paul — H. W. Austin, city purch. agt., sewer in Otto Ave., to H. Huebscher, 736 Hamline Ave., $47,950. Noted Jan. 15.

Okla., Wetumka—H. Hamilton, city clk., Jan. 21, 15,600 ft. 6- to 15-in. vitr. clay mains, etc., in Benson, Clare, Porter, Tiger, Washita and Frisco Sts., to Park & Moran, Box 622, Okmulgee, $25,104. Engrs. est. $25,000. Noted Jan. 15.

Calif., Santa Barbara — Constructing trunk sewer in Garden and Quinenitos Sts., pre-cast pipe, to United Concrete Pipe Co., Ventura, $49,460; intercepting sewer in East Blvd., to Carreno-Bonilla Co., Santa Barbara, $17,650.

Que., Hull—T. Lanctot, city engr., sewers and water mains in various streets, to C. A. Leduc, City Hall, Hotel deVille Rue, Hull, $170,325. Engrs. est. $192,274.

Que., Hull—Will build 2,635 ft. sewers in Leduc and Tache Sts., by day labor. $33,879. T. Lanctot, city engr. Noted Jan. 1.

Waste Disposal

PROPOSED WORK

Fla., Miami—Election Jan. 29, $50,000 bonds for incinerators and garbage plants. H. E. Ross, city clk.

BIDS RECEIVED

N. Y., New Dorp (Sta. Staten Island)—J. A. Lynch, pres. Richmond Boro., Boro Hall, St. George, Jan. 21, garbage disposal plant, runway furnaces, etc., from M. Miller Constr. Co., 709 6th Ave., New York City, $265,000, deduct $34,000. Noted Jan. 15.

Calif., Los Angeles—Bd. Pub. Wks., Jan. 20, from F. L. Decarie, Portland, Ore., 200 ton incinerator, Locations 1-a and 2-b, $450,000 each, from Hiler Engr. & Constr. Co., Inc., New York City, Location 1-a, 8 bids ranging from $298,000 to $560,000; from Superior Incinerator Co., Dallas, Tex., Proposal 1 $335,600, Proposal 2 $240,551, Proposal 3 $192,425; from Nye Odorless Crematory Co., Macon, Ga., Location 1-a, $265,000. Noted Jan. 8.

CONTRACTS AWARDED

Minn., Minneapolis — For garbage incinerator with all equipment, 210 tons daily capacity, to Goder Incinerator Co., 323 North Michigan Bldg., Chicago, Ill., $204,-100. Noted Jan. 22.

Bridges

PROPOSED WORK

Miss, Biloxi—Harrison Co. made preliminary sketches, probably concrete bridge, with 24 ft. driveway and 5 ft. sidewalks, across Back Bay of Biloxi. $450,000 bond issue will be considered at next monthly meeting. I. Hedrick, Kansas City, Mo., engr.

Miss., Canton—See "Streets and Roads."

Miss., Gulfport — Clerk Harrison Co. takes bids about April 6, bridge across Bay of St. Louis. $435,000. Engineer not selected.

Wis., Beloit — Plans election in spring $100,000 to $135,000 bonds, for concrete or steel bridge over Rock River, at Portland Ave. G. E. Heebink, City Hall, engr. Noted Sept. 18.

Wis., Menasha—City, c/o J. DeCaro, city clk., making plans steel draw bridge over Government Canal, at Tayco St. $100,000. McMahon & Clark Eng. Co., Menasha, engrs.

Wis., Racine — Making plans steel and concrete bridge, at Mead St. $55,000-$60,-000. J. W. Beaugrand, City Hall, engr.

Kan., Abilene—See "Streets and Roads."

Kan., Iola — Allen Co. soon takes bids Bridge 1, two 60 ft. and one 70 ft. steel spans with 20 ft. roadway; Bridge 2, one 150 ft. steel span with 20 ft. roadway, on Federal Aid Project 283-B. A. R. Stroup, Iola, engr.

Kan., Oswego—See "Streets and Roads."

Kan., Paola — Miami Co. making preliminary plans one 20 ft., one 25 ft. and one 40 ft. span deck girder bridge, 20 ft. wide, on Federal Aid Project 289; two 18 ft. and one 20 ft. slab and one 100 ft. steel spans with two 50 ft. approaches on Federal Aid Project 288; one 120 ft. steel with 350 ft. viaduct, three 8 x 8 box culverts and one 120 ft. steel and two 50 ft. steel spans on Federal Aid Project 293.

Tex., Sanderson — See, "Streets and Roads."

Calif., Santa Barbara — Election about Feb. 24, $100,000 bonds constructing Carillo St. viaduct. G. D. Morrison, city engr. Noted June 5.

BIDS DESIRED

Tex., Boston—See "Streets and Roads."

Tex., Fairfield—See "Streets and Roads."

Tex., Houston—See "Streets and Roads."

Wash., Tacoma—Feb. 4, by Bd. Pub. Wks., 371 ft. single steel span bridge, 35 ft., with 20 ft. roadway and deck of 6 in. concrete slabs, over Puyallup River on Meridian St. C. H. Votaw, Tacoma, and M. M. Caldwell, Central Bldg., Seattle, engrs.

Wash., Whitney—Feb. 2, by Comrs. King Co. (Seattle), 180 ft. steel bridge with 90 and 30 ft. timbered approaches over Green River, near here. $25,000.. T. R. Beeman, 602 37th St., Seattle, engr.

BIDS RECEIVED

N. Y., New York—W. W. Mills, comr. Plant & Structures, Municipal Bldg., Jan. 19, constructing Roosevelt Ave. Bridge over Flushing River, from A. MacMullen Co., Howard Beach, $2,625,000.

Tex., Sulphur Springs—See "Streets and Roads."

CONTRACTS AWARDED

Idaho—Dept. Pub. Wks., Bureau Highways, Boise, 185 ft. concrete trestle over Butte branch of Oregon Short Line R.R. tracks, also grading and screen gravel surfacing approaches of same between Pocatello and Blackfoot, Federal Aid Project 78A, Bannock Co., to J. L. Griffith & Co., Salt Lake City, Utah, $31,209.

Oregon—State Hy. Dept., Salem, new bridge over Callipoosa River, on Pacific Highway, Douglas Co., to L. W. Metzger, Roseberg, $42,212.

Dams

PROPOSED WORK

Wis., Oconto Falls—See "Buildings—Industrial."

Wash., Seattle—See "Unclassified."

Calif., Richvale—See "Excavation, Drainage, Irrigation, Levees."

BIDS DESIRED

O., Barberton—See "Waterworks."

CONTRACTS AWARDED

Mo., Conowingo—See "Buildings—Industrial."

Railways

PROPOSED WORK

Florida—City of Miami, election Jan. 29, $75,000 bonds for extending and improving street railway system. H. E. Ross, Miami, city clk.

Texas — San Antonio Public Serv. Co., San Antonio, E. H. Kifer, vice pres. and genl. mgr., making plans laying new rails and paving between tracks, in San Antonio. $200,000. Private plans.

California—City of Eureka plans election $60,000 bonds or more, to purchase rails for municipal railway system. J. Griffiths, supt. Pub. Wks.

CONTRACTS AWARDED

Massachusetts — Eastern Massachusetts Street Ry. Co., 1 Beacon St., Boston, about 800 ft. tract on Hancock St. between Saville and Dimmock Sts., Quincy, to G. Ferullo Co., 31 North Sq., Boston. Noted Oct. 30.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Tex., Brownsville—Cameron Co. Water Impvt. Dist. 4, soon takes bids headwalls, siphons, pumping plant, etc. $40,000. A. E. Anderson, Brownsville, engr.

Tex., Dallas — Bois'd Arc Levee Dist., Dallas Co., election Feb. 7, $250,000 bonds new levee. T. C. Forrest, Jr., Waxahachie, engr.

Calif., Chico—F. Flowers made plans irrigation works, 2,000 lin.ft. 16 in. cement pipe, one 8 in. centrifugal pump, 4 sec.-ft. capacity, 20 ft. lift, 15 hp. motor. F. S. Robinson, 4814 5th St., Chico, engr.

Calif., Richvale — A. A. Bradford, Box 862, Chico, made plans irrigation works, 18,500 lin.ft. earth canal, 22 ft. wide on top., 6 ft. bottom, 4 ft. deep, small timber dam and timber head gate, 5 centrifugal pumps, 12 in. 50 sec.-ft., total capacity 4 ft. lifts, and 125 hp. gasoline engine. $15,-000. Private plans.

BIDS DESIRED

N. Y., Lawrence—Taking bids 2½ and 3 ft. sand fill over level meadow about 260 acres. E. R. Dunne, 216 West 34th St., New York City, engineer in charge; adv. E. N.-R. Jan. 29.

Georgia—Feb. 6, by State Hy. Dept., East Point, 32,567 cu.yd. earth embankment to approach to bridge over Chattahoochee River, also 1,180 cu.yd. surfacing, on Federal Aid Project 297, at Fort Gaines, Clay Co. W. R. Neel, East Point, engr.

Calif., Palmdale—Feb. 3, by G. A. Pyle, secy. Palmdale Irrigation Dist., Jones Bldg., enlarging and concrete lining 33,382 ft. main canal, repairing and enlarging 3 tunnels, extending distributing system, 44,340 lin.ft. 8- to 12-in. concrete pipe, stand pipes, division boxes, gates, etc. $100,000 or more.

CONTRACTS AWARDED

Ia., Council Bluffs—Pottawattamie and Harrison Counties, cleaning out Willow Creek Ditch, 93,000 cu.yd. excav., to W. G. Humphrey, 526 Securities Bldg., Omaha, Neb., J. J. Thompson, Omaha, at $0.149 per cu.yd. Noted Jan. 1.

Streets and Roads

PROPOSED WORK

Mass., Boston—Plans reconstructing and widening Lake St. from Commonwealth Ave. to Kendrick St., Brighton. $50,000. J. F. Sullivan, Street Laying Out Dept., City Hall, secy.

Mass., Boston—Plans widening Dock Sq. $700,000. F. H. Fay, City Planning Bd., City Hall, chn.

Mass., Dorchester (Boston P. O.)—City Planning Bd., City Hall, Boston, plans widening Morton St., here. $550,000. F. H. Fay, chn.

Mass., Dorchester (Boston P. O.)—City Planning Bd., City Hall, Boston, plans widening Oakland St., here. $135,000. F. H. Fay, City Hall, Boston, chn.

Mass., Medford — Plans reconstructing Fulton St. from Felsway West Parkway to Elm St., North Medford Dist. $25,000. F. R. Channock, Medford Bldg., city engr. Noted Dec. 4.

Mass., Middleboro — City plans reconstructing Plympton, Perry, Miller and Taunton Sts., Long Point and Marion Rds. $25,000. Engineer not selected.

New York—Erie Co. (Buffalo), making surveys 30 mi. highway from Buffalo to Irving, 16 and 18 ft. $4,000,000. G. C. Diehl, Ellicott Sq. Bldg., Buffalo, engr.

Pa., Phila.—Bureau Highways, Dept. Pub. Wks., rejected bids Jan. 19, redressed granite block repaving Frankford, Indiana, Spruce and 22nd Sts. Noted Jan. 15.

Pa., Renovo—Boro. Council, c/o F. E. Colony, boro. engr., takes bids in spring brick or concrete paving 4,000 ft. Huron Ave. from 8th to 15th Sts., 24 ft. $50,000.

Md., Baltimore—Making plans sheet asphalt paving Suburban Ave., Aisquith, Morley, Mt. Holly and Taylor Sts. S. L. Rowland, 214 East Lexington St., acting chn. Paving Comn.

W. Va., Grantsville—Washington Dist. election Feb. 7, $70,000 bonds for roads in Calhoun Co. J. M. McKinney, Grantsville, engr.

Miss., Canton—Madison Co. election Feb. 10, $25,000 bonds, repairing roads and bridges on Pickens Pike and Jeff Davies Highway.

Miss., Charleston—Tallehatchie Co. and State Hy. Dept., Jackson, making preliminary plans grading and concrete surfacing 14 mi. various roads, 9 ft. $150,000.

Miss., Grenada—Grenada Co. election Jan. 31, $40,000 bonds, improving roads in Dist. 4.

Miss., Gulfport — Harrison Co. plans graveling and hard surfacing roads in 7 projects. $500,000-$1,500,000.

Miss., Meridian — Lauderdale Co. voted $400,000 bonds for road improvements. J. W. Parker, mayor. Noted Dec. 25.

Miss., Yazoo City — Yazoo Co. making preliminary plans grading, bridging, hard-surfacing, etc., 6 mi. various roads, 18 ft.

Tenn., Columbia—Maury Co. plans grading and surfacing various roads, probably gravel and limestone macadam. $55,000. Work will probably be done by day labor under supervision B. Wilkes, co. engr., Court House.

O., Akron — Summit Co. takes bids in spring, improving 2.8 mi. Cuyahoga Falls-Tallmadge Rd., 16 ft. $75,000. R. E. Willems, Akron, engr.

O., Cincinnati—Hamilton Co. plans grading and rein.-con. paving 19,420 sq.yd. Wesselman Rd. $104,674. E. A. Gast, Court House, engr.

O., Cleveland — Comrs. Cuyahoga Co. take bids in summer, concrete paving 2 mi. Egypt Rd., $100,000; 1½ mi. Ford Dr., $64,-700. F. Lander, Court House, engr.

O., Cleveland—Cuyahoga Co. takes bids in summer, brick paving 1.5 mi. East 71st St. $300,000. F. Lander, Court House, engr.

O., Columbus—Franklin Co. plans water-bound macadam paving 1,344 ft. Roberts Ave., Cooper, Tuttle, Carl 2 and Cherry Bottom Rds., and 4.01 mi. Norton Rd., Berrel and Woodward Aves., all foregoing 16 ft., 658 ft. Livingston Ave. 2, Twp. Lines and Williams Rds., all 18 ft., and 3 mi. Joyce Ave., 24 ft.; also sheet asphalt paving 2.25 mi. Brookside Dr., Polo Pl., Broadmore and Medway Aves., Chesterfield, Elburn and Jellner Rds., all 26 ft. C. C. Lattimer, co. surv.

O., Medina—Takes bids in spring concrete paving 0.75 mi. East Smith Rd., $35,-000; concrete or waterbound macadam paving Mill St. $40,000. I. R. Ault, Medina, engr.

Wis., Cudahy — Plans concrete paving 20,000 to 25,000 sq.yd. Pulaski and Barnard Aves. To exceed $25,000. R. A. Steinhagen, 845 38th St., Milwaukee, engr.

Wis., White Fish Bay — Making plans concrete paving approximately 30,000 sq.

Streets and Roads (Continued)

yd. various streets. To exceed $25,000. T. F. Buckley, Village Hall, engr.

Ill., Carbondale—Soon takes bids grading and brick or concrete surfacing various streets. $25,000. P. B. Wilson, Marion, engr.

Ill., East St. Louis — Soon takes bids grading, asphalt on concrete surfacing, etc., 4 blocks 25th St. from State St. to Louisville & Nashville R.R. tracks. $29,900. W. McK. Brown, City Hall, engr.

Ill., Geneva—Kane Co. Hy. Dept. takes bids during spring and summer, concrete surfacing 4 mi. Route 7, Sect. 42-15-D, $125,000, 1.8 mi. Route 13, Sect. 43-15-D, $52,000, 1.2 mi. Route 13, Sect. 44-15-D, $36,000, 0.7 mi. Route 2-A, Sect. 45-15-D, $20,000, 0.6 mi. Route 13, Sect. 46-15-D, $19,000, 0.2 mi. Route 13, Sect. 47-15-D, $6,000, 0.7 mi. route 13, Sect. 48-15-D, $19,000, Routes 8 and 9, Sect. 49-15-D, $255,000, all 18 ft. with 6 ft. earth shoulders; also bridge on Route 7, Sect. 42-B-15-D, $6,000. C. L. Hanson, Court House, supt.

Ill., Pittsfield — Takes bids in May or June, grading, curbing, and concrete or brick on concrete paving 10,000 ft. various streets. $100,000. Caldwell Eng. Co., 502 Ayres Bank Bldg., Jacksonville, engrs.

Ia., Waterloo — Blackhawk Co. making preliminary plans grading, gravel surfacing, etc., 9 mi. Hudson-Cedar Falls Rd. W. D. Johnson, Court House, engr.

Kan., Abilene — Dickinson Co. making preliminary plans grading, etc., 16.5 mi. various roads, 28 ft., incl. 10 concrete bridges. C. Nickolay, Court House, engr.

Kan., Emporia—Plans grading, curbing and hard surfacing 24 blocks of 9th, 11th, Sylvan, Exchange, Lawrence, Union and South Commercial Sts.; also widening Commercial St. between 9th and 11th Sts. R. J. Paulette, city engr.

Kan., Independence — Montgomery Co. plans grading and bituminous macadam surfacing 8,500 ft. Federal Aid Project 121-J and K, 18 ft., also grading, etc., 15 mi. various roads. H. K. Hibbard, Court House, engr.

Kan., Oswego—Labette Co. soon takes bids grading and gravel surfacing, also one 16 ft. and three 20 ft. slab bridges on 5.13 mi. Sect. A, Edna Rd. H. K. Shidler, Oswego, engr.

Neb., Papillion—Sarpy Co. voted $32,000 bonds, graveling and grading 10 mi. trunk highways in Richland Precinct. Noted Dec. 18.

Mo., Flat River—St. Francis Co. takes bids about March 24, grading and 6 in. Bates type concrete surfacing 4 mi. Flat River Rd., 18 ft. Swank-Tanner Eng. Co., Charleston, engrs.

Ark., Little Rock—Making preliminary plans grading, hardsurfacing, etc., 10 blocks Dist. 400, West 4th St. from Bway. to State Capitol. M. M. Martin, Southern Trust Bldg., atty. for district.

Tex., Alpine — Brewster Co. takes bids after Feb. 2, improving and surfacing 5.13 mi. Federal Aid Project 378 E. $49,000. A. L. White, Alpine, engr.

Tex., Beaumont—City, c/o O. J. Bloyd, mayor, soon takes bids repairing and renewing paved streets also paving various streets. $150,000. R. C. Black, city engr.

Tex., Boston—Bowie Co. making plans clearing, grading, Bates section concrete surfacing, etc. 3.39 mi. State Highway 47, extending north from Texarkana, $100,000; and 3.31 mi. Federal Aid Project 479, $105,000, both 18 ft. D. K. Caldwell, Engr. Road Dist. 1, Texarkana, engr.

Tex., Munday—Election soon $30,000 bonds paving various streets. E. Davis, mayor.

Tex., San Antonio—See "Railways under Texas."

Tex., Sanderson—Terrell Co. takes bids after Feb. 2, grading and bridging 7.7 mi. on State Highway 3, Federal Aid Project 324 D. $78,000. J. Stovell, Sanderson, engr. Noted Jan. 22.

Tex., Stamford—Voted $70,000 bonds permanent paving various streets. Engineer not selected. Noted Dec. 25.

Tex., Snyder—A. C. Pruitt, city secy., soon takes bids paving, guttering, etc. 30,000 sq.yd. various streets. $75,000. Elrod Eng. Co., 3124 Elm St., Dallas, engr.

Tex., Vernon — Wilbarger Co. making plans Bates section concrete surfacing 6 mi. State Highway 28, north of Vernon, 18 ft. $160,000. J. O. Nabors, co. engr.

Tex., Waco—Plans election $250,000 bonds, paving various streets. V. G. Koch, Waco, engr.

Okla., Bartlesville—Takes bids in spring grading, curbing, and hard surfacing 7 blocks Cheyenne, Seneca and 7th Sts., and concrete alleys in Blocks 28, 50 and 5. W. J. Mullins, city clk.

Okla., Clinton—Plans grading and asphaltic concrete surfacing 8,600 sq.yd. Modell St. $51,000. B. M. Hart, City Hall, Oklahoma City, engr.

Okla., Cordell—Plans grading and asphaltic concrete surfacing 21,300 sq.yd. Main, Central, Jenkins and Chestnut Sts. $86,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr.

Okla., Norman—Plans grading and concrete surfacing 10,400 sq.yd. Dist. 54. $43,000. F. Cobb, Norman, engr.

Okla., Pauls Valley — Voted $27,000 bonds, grading and gravel surfacing 14,300 sq.yd. Pecan and Cherry Sts. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Jan. 1.

Okla., Shawnee—Plans grading, curbing and concrete paving 13,000 sq.yd. various streets in Impvt. Dist. 35. $41,000. F. D. Brown, Shawnee, engr.

Okla., Tulsa—Plans improving, grading, curbing and concrete paving 13,000 sq.yd. Oak Cliff addition. $65,000. C. Schultz, Tulsa, engr.

California — State Hy. Comn., Sacramento, making plans widening road between San Bruno and Daly City, San Mateo Co. To exceed $25,000. R. M. Morton, state highway engr.

Calif., Pomona — Plans extending Holt Ave. Los Angeles Co. (Los Angeles) to appropriate $58,000, Union Pacific R.R. Co., 58 East Washington St., Chicago, Ill., $24,000 and Southern Pacific R.R. Co., 65 Market St., San Francisco, $24,000 toward cost.

Calif., San Diego—Making plans improving Irving Ave. and N St., 211,319 sq.ft. 1.5 in. asphaltic wearing surface on 2.5 in. bitulithic, 588 cu.yd. excav., 389 lin.ft. concrete curbs, 1,788 sq.ft. concrete sidewalks. F. A. Rhodes, city engr.

Calif., San Francisco—See "Unclassified."

Quebec — Dept. Provincial Highways, Quebec, takes bids in early spring, paving 7 mi. Hull-Aylmer Highway, $55,000. G. St. Michel, c/o Dept. Pub. Wks. and Labor, Quebec, engr.

Ont., Ingersoll — Council plans cement paving Charles, Thames and Bell Sts. $35,000. M. E. Scott, Ingersoll, chn. com.

Ont., Simcoe—Plans cement paving Main St. $30,000. A. C. Burt, chn. com.

BIDS DESIRED

N. Y., Brooklyn—Feb. 4, by J. A. Guider, boro pres., Boro Hall, asphalt repaving East 5th St., Sumner and Wilson Aves.; asphalt resurfacing Adelphi, Duffield, Monroe, Pearl, Penn, 40th and 14th Sts., Carlton, Lafayette, Foster, Newkirk, Prospect and 8th Aves.

From Denver

"The outlook for next year is exceptionally good. Lumber dealers predict that 1925 will be the largest in the history of the city and state."

Construction News Correspondent

N. C., Kernersville—Feb. 25, by Town Trustees, approximately 40,000 sq.yd. paving various streets. Carolina Eng. Co., Johnston Bldg., Charlotte, engrs.

Alabama—Feb. 25, by State Hy. Comn., Montgomery, sand clay surfacing 10.3 mi. Georgiana-McKenzie-Conschu Co. line Rd., Butler Co., $175,000; bituminous macadam surfacing 3 mi. Huntsville Rd. to connect with Federal Aid Project, Madison Co., $125,000; gravel surfacing 18.8 mi. Fayette-New Lexington-Bankston Rd., Fayette and Tuscaloosa Counties, $150,000, and 13.5 mi. Moulton-Courtland Rd., Lawrence Co., $125,000, all 18 ft. W. S. Keller, highway engr.

Miss., Phila.—Feb. 26, by Bd. Supervs. Neshoba Co., grading and sand clay surfacing 10.5 mi. Philadelphia-Carthage Rd., 18 ft. H. C. Dietzer, Jackson, engr.

Ill., Urbana—Feb. 24, by Comrs. Champaign Co., furnishing and spreading 2½ m.g. road oil. R. F. Fisher, Urbana, supt. Noted Jan. 22.

Wis., Kenosha—Feb. 26, by C. M. Osborn, city mgr., vitr. and vertical fibre brick, asphaltic concrete, asphalt and rein.-con. paving Sheridan Rd., Belmont, Beverly, Kenwood and Pickwick Pls., 5th, 4th, 6th, Florence, Fremont, Greenwood, Germann-Marion, 2nd, Sherman, Marion and Warren Aves., Brockett, Cable, Charles, Edward, Engel, Erie, Grant, Herbert, Julia, John, South, Lyman, Pearl, Quince, Prairie, Ridge, Steinbach and Superior Sts. R. M. Smith, City Hall, engr.

Minn., Austin—Feb. 18, by C. M. Hubbard, aud. Mower Co., gravel surfacing 45.5 mi. Jobs 2501, 2502, 2503, 2504, 2505, 2506, 2508 and 2509. $75,000. A. C. White, co. highway engr. Noted Jan. 22.

Tex., Boston—Feb. 10, by I. J. Robinson, judge Bowie Co. grading, concrete surfacing and bridging 3.31 mi. Federal Aid Project 479, Texarkana-Index Rd., 18 ft., $100,000; grading, concrete and gravel bituminous paving and bridging 8.66 mi. State Highway 47, Federal Aid Project 475-A, Texarkana-Atlanta Rd., 18 ft., $250,000. D. K. Caldwell, co. engr. Noted Dec. 18.

Tex., Ennis—R. A. McCulloch, mayor, taking bids asphaltic concrete paving various streets. $50,000. H. McCanless, city engr.

Tex., Fairfield—Feb. 17, by J. S. Roper, judge Freestone Co., grading, bridging, rein.-con. surfacing, etc. 14.46 mi. State Highway 7, Fairfield-Turlington Rd., 26 ft., Federal Aid Project 450-A. $26,000. F. E. Wilson, Teague, co. engr.

Tex., Ft. Worth — Taking bids paving 8,000 yd. Ave. K to McKay St. $25,000. D. L. Lewis, city engr.

Tex., Houston—Feb. 10, by H. L. Washburn, aud. Harris Co., grading, bridging and 16,080 sq.yd. concrete paving Highway 6, in Harris and Galveston Counties. Howe & Wise, Houston, co. engrs.

Tex., Paducah—Feb. 16, by Gantt-Baker, Co., engrs., 1116-18 West Main St., Oklahoma City, Okla., permanent paving various streets, here, for city. $85,000.

Tex., Shamrock — Feb. 3, by F. Exum, mayor, improving various streets, 9,580 yds. vertical fibre brick paving, 2,485 combination curbing and guttering, 1,715 yds. excav. $40,000. F. F. DeBose, Colorado, engr.

Tex., Teague—Feb. 17, by J. E. Johnson, engr. Freestone Co., grading and bridging 6.59 mi. State Highway 7, Federal Aid Project 350 A, $40,000; and 4.27 mi. State Highway 14, Federal Aid Project 463 B, $25,000. J. F. Roper, judge.

Nevada—Feb. 4, by Directors Dept. Hys., Carson City, constructing 5.72 mi. Route 3, Sect. D 2 from Smiths Corners to West Co. line, Lyons Co., 25,000 cu.yd. excav., 8,100 cu.yd. load and screen gravel, 13,700 yd. mi. haul gravel, 8,100 cu.yd. spread gravel, etc. G. W. Borden, state highway engr.

BIDS RECEIVED

N. Y., Brooklyn—J. A. Guider, boro, pres. Boro Hall, Jan. 21, from Uvalde Asphalt Paving Co., 1 Bway., New York City, repaving Euclid Ave., $16,337; from G. M. Mandatto, 129 29th St., 3rd St., $24,252; from Brooklyn Alcatraz Co., 407 Hamilton Ave., 14th Ave. $19,633, asphalt paving 9th Ave. $8,751, and 80th St. $8,782.

Pennsylvania—State Dept. Hys., Harrisburg, Jan. 24, **(R. means Route and A. Application)** rein.-con. surfacing R. 241, Bradford and Wyoming Counties, from Public Service Production Co., 80 Park Pl., Newark, N. J., $642,462; R. 73, Mercer Co., from Allegheny Paving Co., 1204 Park Bldg., Pittsburgh, $37,870; R. 59, Elk Co., from W. C. Quick & Co., Brookville, $296,783; A. 985, Indiana Co., from Milligan & Ringler, Blairsville, $67,647; R. 204, Beaver Co., from McDermott Constr. Co., 414 Pratt St., Niles, O., $77,773; R. 17, Bradford Co., from Horn & Devling, Athens, $367,994; R. 84, Crawford Co., from Milliron Constr. Co., Inc., Deposit Natl. Bank Bldg., DuBois, $7,153; R. 219-313, Clearfield Co., from Avery & Bailey, Phillipsburg, $148,432; R. 234, Clearfield Co., from Lord Constr. Co., Hastings, $142,223; R. 31, Perry Co., from Swanger & White, 2nd and Canal Sts., Lebanon, $253,964; A. 3203, R. 206, Mercer Co., from DuBois Constr. Co., DuBois, $11,701; A. 3050, R. 52, Somerset Co., from McClure & Bingner Co., Inc., 1014 U. S. Bank Bldg., Johnstown, $146,960; R. 14, Bradford Co., from D. Schoentag, Inc., 68 Ulster Ave., Saugerties, N. Y. $460,218; A. 3158, R. 52, Somerset Co., from A. W. Hinaman, Mansfield, $40,952; R. 242, Washington Co., from Jones Constr. Co., Salem, O., $107,535; R. 62, Clearfield Co., from R. H. Cunningham & Sons Co., 617 Penn Ave., Turtle Creek, $673,572. Noted Jan. 8.

Pennsylvania—State Dept. Hys. Harrisburg, Jan. 23, **(R. means Route and A. Application)** rein.-con. surfacing R. 70, Allegheny Co., from Rinhart Bros., East Liverpool, O., $56,319; R. 48, Bedford Co., from Bester Long Co., Hagerstown, Md., $544,146; R. 174, Susquehanna Co., from J. Booth, Carbondale, $120,881; R. 10, A. 1067-976, Susquehanna Co., from Lane Constr. Corp., 35 Colony St., Meriden, Conn., $169,962; R. 50, A. 3049, Somerset Co., from McClure & Bigner Co., Inc., 1014 U. S. Bank Bldg., Johnstown, $168,592; R. 149, Berks Co., from Continental Contg. Co., Knickerbocker Bldg., Baltimore, Md., $74,616; R. 251, Butler Co., from Rood Constr. Co., Lyric Theatre

Streets and Roads (Continued)

Bldg., Butler, $210,754; R. 340, Franklin Co., from Souder Constr. Co., 349 Woolworth Bldg., Lancaster $271,264; R. 92, Clarion Co., from J. McCarty Co., Union City, $261,185; A. 550, York Co., from H. T. Campbell Sons Co., Inc., Towson, Md., $57,648; R. 88, Warren Co., from E. C. Jones, Great Valley, N. Y., $50,-555; R. 169, Luzerne Co., from R. Hopkins Co., Box 1025, Albany, N. Y., $318,950; R. 296, A. 1636, Susquehanna Co., from Holleran Bros., 901 Linden Pl., Elmira, N. Y., $102,107; R. 236, A. 3063, Potter Co., from United Constr. Co., Lock Haven, stone $108,445, gravel $101,602; R. 110, Greene Co. and R. 325, Greene and Washington Counties, from T. Cronin, South 18th and Fox Sts., Pittsburgh, $513,158 and $366,772 respectively. Noted Jan. 8.

Pa., Phila.—Bureau Highways, Dept. Pub. Wks., from R. B. Wenner, 2313 Walnut St., grading Clearview Ave. $1,235; from Union Paving Co., 30th and Locust Sts., asphalt paving Buckius Ave. $2,720, Magnolia Ave. $5,125, McMahon Ave. $4,188, 21st St. $3,448, asphalt repaving Wharton St. $24,985; from Barber Asphalt Paving Co., 239 North 30th St., asphalt paving Cleveland, Colorado, Pollock, 17th and 18th Sts. $29,538, Grays and 70th Sts. $17,597, Hope St. $1,676, asphalt repaving 18th St. $6,650; from Mack Paving & Contg. Co., Nicetown Lane and Luzerne St., asphalt paving Haworth and Pratt Sts., $15,087; from A. J. Henderson, 1311 Medary Ave., improving Springfield Ave., $1,577. Noted Jan. 15.

Louisiana—State Hy. Comn., Reymond Bldg., Baton Rouge, gravel surfacing 16.43 mi. Leesville-Natchitoches Highway, from Alexandria Constr. Co., Alexandria, $103,-927, 6.4 mi. Winnsfield-Olla Highway, from F. D. Harvey & Co., Memphis, Tenn., $28,-517; constructing 9.43 mi. Bastrop-Arkansas Highway, from Tansey Constr. Co., Shreveport, $40,770. Noted Dec. 18 and Jan. 8.

O., Cleveland—From Cleveland Trinidad Paving Co., The Arcade, improving Maple Ave. $9,563, Agnes Court $2,954, Olive Court $4,879, Bliss Ave. $4,653, Andover Court $7,873, Carnegie Ave. $135,526, East 102nd St. $21,561, East 142nd St. $27,934, West 24th St. $8,636, West 111th St. $32,-456, Jenne Ave. $16,852, Henninger Rd. $18,207. Work involves 32,905 sq.ft. vitr. brick, sheet asphalt or concrete paving, 19,400 lin.ft. stone curbing, 20,680 lin.ft. 4 in. drain tile guttering, and 36,960 cu.yd. earth excav.

Tex., Kaufman — C. Ashworth, judge Kaufman Co., Jan. 17, **(e.e. means engrs. est.)** from Smith Bros., Inc., Amer. Exch. Bank Bldg., Dallas, rein.-con. surfacing 103,393 sq.yd. State Highway 15, Federal Aid Project 130-D, $231,617, e.e. $260,000, 41,431 sq.yd. State Highway 15, Federal Aid Project 130-C, $92,698 e.e. $103,500, 69,951 sq.yd. State Highway 15, Federal Aid Project 130-A, $131,616 e.e. $175,000. Noted Jan. 8.

Tex., Sulphur Springs—R. E. Bertram, judge Hopkins Co., Jan. 13, grading, bridging and graveling 7.8 mi. State Highway 1, State Aid Project 501-D, 16 ft., and grading and bridging 15.62 mi. State Highway 11, 26 ft., from D. Word, Itaska, $48,704 and $65,629 respectively. Engrs. est. $55,-000 and $77,000 respectively. Noted Jan. 8.

Calif., Santa Monica—Grading, curbing, asphaltic concrete paving, etc., Arizona Ave. between 20th St. and east city limits, from S. Pearson, 3847 South Bway., Los Angeles, $78,811.

CONTRACTS AWARDED

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, to Brooklyn Alcatraz Co., 407 Hamilton Ave., curbing and paving Ave. K $10,000, East 36th St. $879, 76th St. $4,079; to Connor Bros., 629 Albany Ave., grading, curbing and flagging Lefferts Ave., $10,994, to Galco Contg. Co., 745 Dean St., East 36th St. $2,573, 62nd St. $4,126, 20th Ave. $985, 76th St. $1,252, to W. J. McHale Contg. Co., 1250 Jefferson St., Maple St., $5,429, to F. C. Kohart, Rutland Rd., $6,440; to M. J. O'Hara, 1228 Park Ave., New York City, asphalt paving 15th Ave. $1,214; to Cranford Co., 52 9th St. paving and repaving 20th Ave. $8,424. Noted Jan. 15.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., to M. Del Balso, 660 East 221st St., grading, curbing and sidewalks on East 243rd St., $6,189; to I. F. Cavaluzzo, 1538 Walton Ave., Adee Ave. $31,638; Pelham Parkway $12,547, Hermany Ave. $14,862; East 213th St. $7,159; to L. DiMinna, 2366 Lorrilard Pl., Quimby Ave. $3,770, East 172nd St. $1,399, East 195th St. $6,491; to S. Nugent, 285 West 150th St., Liebig Ave. $26,754, West 255th St. $2,144; to Bronx Sewer Co., 375 East Fordham Rd., Randall Ave. $8,415. Noted Jan. 15.

S. C., Greenville—Grading and concrete paving 4.754 mi. Laurens Rd., Federal Aid Project S-565 A, 18 ft., Greenville Co., to Henry Constr. Co., Greenville, $131,187.

Miss., Vicksburg — Grading and gravel surfacing 5 mi. road from Oak Ridge to county lines, 18 ft., to Owens Constr. Co., Vicksburg, $28,000.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, rein.-con. paving 3.9 mi. road extending east of Monroe city limits to Desard St., 18 ft., to Meyer & Greenwald, Monroe, $106,431. Noted Dec. 25.

La., Baton Rouge—Hardsurfacing 17,272 sq.yd. various streets to Southern Roads Co., 306 Weis Bldg., New Orleans, $66,000. Former contractor forfeited contract for failure of signature on contract. Noted Jan. 8.

Tenn., Brownsville—Rock Asphalt surfacing 5 streets, to V. E. Schenvell & Co., Empire Bldg., Memphis; gravel and oil surfacing 12 streets, to Little & Dean, Bank of Commerce Bldg., Memphis, $27,004. Noted Dec. 18.

Minn., Hibbing — Vibrolithic paving 55 blocks various streets, to E. W. Coons Co., Hibbing, $300,000.

Kan., Girard—Crawford Co. will grade and chats surface 7.132 mi. Curranville Rd., 18 ft., by day labor. C. M. Cooper, Girard.

N. D., Devils Lake—J. A. Kramer, aud. Ramsey Co., and State Hy. Comn., Bismarck, gravel surfacing 16 mi. Federal Aid Project 168, 22,695 cu.yd. load, unload and spread, 41,100 cu.yd. gravel mi. haul, to M. D. Butler, Grand Forks, $15,002; grading 21 mi. Federal Aid Project 224, 118,797 cu.yd. earth and 2,375 cu.yd. rock excav., 29,073 standard overhaul, culverts, etc., to W. Collins, Lakota, Sect. A $27,521, Sect. B $25,239. Noted Jan. 8.

Mo., St. Louis—To Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., asphalt guttering, granite curbing 18th St. $25,-950, asphalt paving, curbing and guttering Fairfax St. $27,540; Potomac St. $6,128; to Brighton Constr. Co., 4101 Park St., asphalt paving, etc. Franklin Ave. $102,-547; to Webb-Boone Paving Co., 5927 Fyler Ave., asphalt paving, concrete curbing and guttering Macklind Ave. $37,541; to Granite Bituminous Paving Co., Railway Exch. Bldg., Warrenite paving, concrete guttering and granite curbing Bell Ave. $51,998, Dickson St. $14,083; to Skrainka Constr. Co., Security Bldg., brick paving and granite curbing Marine Ave. $54,376. Noted Jan. 22.

Tex., Galveston—Galveston Wharf Co., c/o E. E. Gossrau, genl. mgr., paving and wharf improvements, to W. A. Kelso, 2220 Ave. C, $200,000 cost plus percentage basis.

Tex., Sanderson—Terrell Co., grading, caliche surfacing and bridging 17.4 mi. State Highway 3, Federal Aid Project 324-C, to W. T. Montgomery, Haynes & Burns, Alamo Bank Bldg., San Antonio, $95,495. Noted Jan. 22.

Tex., Waco—For about 9,000 yds. vitr. brick paving around Courthouse Sq., to Bart Moore Constr. Co., Waco, $3.15 per sq.yd.

Oregon—State Hy. Dept., Salem, grading and surfacing 5.55 mi., and broken stone surfacing 8 mi. John Day Highway, Gellam Co., to Campbell, Barr & Tobin, Colfax, Wash., $97,510.

Okla., Wewoka—Grading and surfacing 22 blocks Cedar, Park, Muskogee and Seminole Sts., 23,000 sq.yd. vertical fibre brick, 11,800 ft. curbing, 8,800 cu.yd. earth and 320 cu.yd. rock excav., to E. E. Park, Box 622, Okmulgee, $117,310. Engrs. est. $151,400. Noted Jan. 15.

Calif., Los Angeles—To W. D. McCray, 416 Amer. Bank Bldg., improving Machado Ave., $4,033; to C. R. Snow, 852 Huntley Dr., West Hollywood, Denley Ave. $2,199; to W. Luddington, 420 East 60th St., Wilton Pl. $6,989, Atlantic St. $6,619; to C. C. Kinsman & Co., 632 H. W. Hellman Bldg., Wadsworth St. $8,465; to P. F. Martter, 1250 South Gramery Pl., Guirado St. $5,449; to G. H. Oswald, 366 East 58th St., 92nd St. $19,327; to Griffith Co., Railway Bldg., 4th St. $4,210, New Hampshire Ave. $5,149, 14th St. $4,414, alleys west of Pacific Ave. $4,145, and 2nd St. $5,130.

Calif., Los Angeles—Los Angeles Co., to Griffith Co., Railway Bldg., improving Hunts Crossing Rd., $42,600; to G. R. Curtis, 2440 East 26th St., portion of Flower St. $17,688, 108th St. $35,838, and 94th St. $12,728. Noted Jan. 8.

Calif., Los Angeles — Grading, curbing, asphaltic concrete paving Harvard Blvd., to G. R. Curtis Paving Co., 2440 East 26th St., $27,410; Herkimer St., to C. W. Shafer, 3301 South Hill St., $9,037; Kerckoff Ave., to G. D. Nichols, P. O. Box 572, Inglewood, $1,827; Bluff Pl., to H. M. Boss, 510 West 11th St., San Pedro, $492; Saratoga St., to Baker & Vigus, 583 I. W. Hellman Bldg., $6,681; Cypress Ave. to Warren Constr. Co., 2221 East 25th St. $7,863; Menlo Ave., to Griffith Co., 502 Los Angeles Railway Bldg., $9,067; and Clinton St., to J. R. McKnight, 360 South Reno St., $8,420; 1 alley, Seville and 4th Sts., to J. Farquahar, 5625 Lankershein Blvd., Lankershein, $2,243. Noted Jan. 22.

Calif., Pasadena—To C. P. Day Corp., Boston Bldg., oil macadam paving Ella St., $9,812; to H. R. Erdman, 141 West Main St., Alhambra, Highland St. $2,841, Elmira St. $7,617, improving Hiatt St. $1,480; to Ducey & Breitenstein, Pasadena, oil macadam paving Peoria St. $5,551, and improving Division St. $4,775.

Calif., Richmond—Improving Macdonald Ave. between 23rd St. and San Pedro Ave., 10,500 cu.yd. cut, 218,914 sq.ft. 2 in. National on 4 in. asphaltic concrete, etc., to Natl. Pavement Corp., Tribune Tower Bldg., Oakland, $117,649. Noted Jan. 8.

Calif., San Gabriel—Oil macadam paving Juniper and various other streets, to A. E. Manzer, San Gabriel. Approximately $25,000.

Calif., Santa Ana—City Council improving Orange Ave., 110,328 sq.ft. 5 in. and 110,954 sq.ft. 6 in. concrete paving, etc., to Griffith Co., 502 Los Angeles Ry. Bldg., Los Angeles, $41,899. Engrs. est. $44,450. Noted Jan. 8.

Calif., Venice—Grading, curbing, guttering, and 5 in. concrete paving 18,755 sq.ft. Amoroso Court, to R. A. Anderson, Venice, $0.178 per sq.ft.

Buildings—Industrial

PROPOSED WORK

Mass., Brighton (Boston P. O.)—Manufacturing—Cambridge Cement Stone Co., 156 Lincoln St., plans altering and constructing 1 story addition. $40,000. Private plans.

Mass., Everett (Boston P. O.)—Manufacturing — Metropolitan Lithographing & Publishing Co., having plans prepared by W. P. Hatch, 60 State St., Boston, 3 story, 60 x 125 ft., rein.-con. and brick, Bow St. $100,000.

Mass., Lynn—Repair and Service Garage—M. Levin, 204 Summer St., having preliminary plans prepared by G. A. Cornet, 10 Central Ave., 1 story, rein.-con. and brick, Blossom and Wheeler Sts. $40,000.

Mass., Norfolk Downs (Boston P. O.)—Mill—S. H. Couch Co., Inc., 170 Purchase St., Boston, having preliminary plans prepared by French & Hubbard, 210 South St., 1 and 2 story addition. $40,000.

Mass., Springfield — Stations — Standard Oil Co. of New York, Albany St., plans 2 oil stations, steel. $150,000 each.

Mass., West Mansfield—Power House—Bd. Alderman, City Hall, Attleboro, plans power house, here, to furnish power to city of Attleboro. Engineer and architect not selected.

N. J., Trenton—Factory—G. Tomlinson & Son, archts., 1713 Sansom St., Phila., Pa., preparing plans 1 story and basement, 80 x 200 ft. factory, here. $50,000. Owner's name withheld.

Pa., Allenport—Plant—Pittsburgh Steel Products Co., Union Trust Bldg., Pittsburgh, having plans prepared 1 story, 140 x 900 ft., steel plant. $1,500,000. Private plans.

Pa., Chambersburg — Factory — H. J. Heinz Co., 1062 Progress St., Pittsburgh, plans 1 and 2 story, rein.-con. and brick, plain foundation, here. $300,000. Private plans.

Pa., Greenville—Dairy—Greenville Dairy Co., soon takes bids 2 story and basement, 48 x 102 ft. dairy, Canal St. $500,000. McCormick Co., 121 South Negley Ave., Pittsburgh, archts.

Md., Canton (Baltimore P. O.)—Plant—Gold Dust Corp., 239 West 30th St., New York City, having plans prepared by Lockwood, Greene & Co., engrs. and archts., 1 Pershing Sq., New York City, plant on 15 acre site, here.

N. C., Biscoe—Power Plant—D. A. Monroe, Biscoe, plans hydro-electric plant, at Norman Mill on Gum Swamp.

La., Baton Rouge — Plant — East Baton Rouge Police Jury granted permission to Standard Oil Co., to close certain streets in order to construct new plant.

La., Shreveport—Mill—F. Davis and Associates, Shreveport, owners of Marshall, Tex., Mill & Elevator Co., take bids about Feb. 15, concrete and steel mill, to be known as Shreveport Grain & Elevator Co., 500,000 to 600,000 bu. capacity.

O., Cincinnati—Plant—J. C. McCullough Seed Co., 5th and Lock Sts., having plans prepared by H. Hake, Telephone Bldg., 9 story and basement, rein.-con. and brick, Lock St. $200,000.

Buildings—Industrial (Continued)

O., Cleveland—Factory—A. W. Murphy, Penton Publishing Bldg., having plans prepared 2 story and basement, 40 x 118 ft., brick and timber, East 31st St. and Superior Ave. $50,000. Private plans.

O., Cleveland—Factory—Pioneer Mchy. & Eng. Co., W. Marble, secy. and treas., 1725 Merwin Ave., plans 1 story, brick factory. $40,000. Engineer and architect not selected.

O., Cleveland — Factory, etc. — Tropical Paint & Oil Co., R. B. Robinette, secy, and treas., 1246 West 70th St., having plans prepared by G. S. Rider & Co., Century Bldg., 3 story, 40 x 80 ft. factory, and 1 story, 80 x 120 ft. office building, brick and steel, 1246 West 70th St. $75,000.

O., Dayton—Factory—Air Friction Carbureter Co., Linden Ave., plans 2 story and basement, 60 x 180 ft., rein.-con. addition, plain foundation. $75,000. Engineer and architect not selected.

O., Euclid—Factory—Euclid Wood Products Co., L. H. Verbsky, pres., 19422 Nottingham Rd., Cleveland, plans 1 story, brick and steel addition. $40,000. Private plans.

O., Kent — Shop — Gouglar Machine Co., plans machine shop. $50,000.

O., North Olmsted—Factories—A. Robinson Co., c/o A. H. Robinson, pres., 5103 Detroit Ave., Cleveland, having plans prepared by W. Serne, 5103 Detroit Ave., Cleveland, 1 story, 60 x 60 ft. and 1 story, 60 x 120 ft., brick and steel, here. $60,000.

O., Piqua—Factory—Meteor Motor Car Co. having sketches made 2 story, 60 x 600 ft. auto factory. $150,000. Private plans.

Wis., Lake Geneva—Plant—Walworth Co. Gas Co., c/o J. F. Ryan, 423 Highland Ave., Elgin, Ill., plans gas plant to supply domestic gas here and various cities and villages in Walworth Co., 500,000 cu.ft. gas retaining tank, generating house, gas mains, etc. $500,000. Engineer and architect not selected.

Wis., Milwaukee — Factory — Wisconsin Cinder Block Co., L. E. Pitner, pres., 802 First Wisconsin Natl. Bank Bldg., plans 1 story, 62 x 62 x 120 ft. factory, cinder block walls, plain foundation. Private plans.

Wis., Milwaukee — Manufacturing and Business — Alliance Investment Co., 117 Wisconsin St., having plans prepared by R. Messmer & Bro., 221 Grand Ave., 5 story and basement, 120 x 120 ft., brick and concrete, plain foundation, Martin St. $250,000.

Wis., Oconto Falls—Power Plant—Union Mfg. Co. having plans prepared power plant to develop 3,000 hp., incl. 500 ft. rein.-con. dam with 40 ft. head, on Oconto River, near here. $300,000. D. G. Moon, c/o Marinette & Monominee Paper Co., Marinette, engr.

Tex., Beaumont—Warehouse and Wharf—City, making plans warehouse and wharf improvements. $250,000 bonds to be voted. R. C. Black, Beaumont, engr.

Tex., Houston—Warehouse—See "Unclassified."

Tex., McAllen—Power Plant—See "Buildings-Commercial."

Tex., Taft—Gin—Midway Gin Co., C. Gerdes, pres., Corpus Christi, plans 8 stand, brick and timber cotton gin on 5.5 acre site. $45,000. Engineer and architect not selected.

Tex., Uvalde—Gin—H. L. Guinn, Laredo, plans 8 stand cotton gin, brick and timber. $40,000. Engineer and architect not selected.

Wash., Everett—Substation—Puget Sound Power & Light Co., Stuart Bldg., Seattle, plans large substation, here. $750,000. This is of part proposed $9,000,000 budget for 1925 for Puget Sound District. Noted July 24, under "Washington."

Wash., Olympia — Mill and Plant — Olympia Pulp & Paper Co. plans (1st unit) sulphite mill and paper-manufacturing plant. W. H. Ball, Olympia, represents owner.

Wash., Seattle—Plant—Pullman Co., 79 East Adam St., Chicago, Ill., plans plant on 22 acre site, here, for rebuilding and reconditioning passenger cars. $750,000.

Calif., Alhambra—Factory—Hadden Automatic Sprinkler Co., 930 Maple Ave., Los Angeles, having plans prepared 1 story, probably hollow tile, A St. To exceed $40,000. Private plans.

Calif., Los Angeles—Factory—W. M. Gottschalk, 310 North Ave. 21, had plans prepared factory, North Avenue 21. $40,000. Private plans.

Calif., Los Angeles—Factory and Shop—Liberty Auto Co., 230 West Washington St., having plans prepared by J. M. Cooper, Marsh-Strong Bldg., 1 story and mezzanine, 70 x 330 ft., brick, Washington St.

Calif., Martinez—Plant—Chipman Chemical Co. plans rebuilding chemical plant, recently destroyed by fire. $100,000.

Calif., Oakland—Shop—Miller Auto Bed Co., 1102 East 12th St., having plans prepared by L. F. Hyde, 372 Hanover St., 1 story, rein.-con. annex, 40th Ave. $40,000.

Calif., Sacramento—Plant—Pioneer Baking Co., 3226 Montgomery Way, purchased site and plans baking plant. To exceed $75,000.

Calif., Sacramento—Shop and Factory—Electric Lawn Mower Corp., c/o W. W. Campbell, 3325 J St., plans shops and factory. $40,000 or more.

Calif., Santa Barbara—Factory—Masterbuilt Wall Fixture Co., c/o C. H. Boyd, Santa Barbara Lumber Co. plans furniture factory. $40,000 or more.

Que., Sillery—Mill—Quebec Pulp & Paper Co., Ltd., 71 St. Peter St., Quebec, having tentative plans prepared by G. F. Hardy, 309 Bway., New York City, N. Y., 6 unit paper mill, here. $10,000,000. Noted Dec. 25.

Ont., Niagara Falls — Plant — Oneida Community Co. Ltd., Niagara Falls, plans enlarging plant. $100,000.

Ont., Toronto — Shop — Amer. Radiator Co., Dominion Bank Bldg., plans rebuilding 1 story, 135 x 300 ft. machine shop, recently destroyed by fire.

B. C., Vancouver—Factory—Amer. Can Co., Ltd., 535 Railway Ave., having plans prepared 4 story, 160 x 260 ft., rein.-con. plain foundation. Railway Ave. Private plans.

BIDS DESIRED

Pa., Phila.—Storage—Jan. 31, by C. E. Wunder, archt., 1520 Locust St., (1st unit) 4 story and basement, 70 x 70 ft., and 5 story and basement, 22 x 32 ft., rein.-con. and brick, plain foundation, Delaware Ave. and Bigler St., for Publicker Commercial Alcohol Co., Swanson and Delaware Aves. Noted Oct. 23.

Calif., San Francisco—Factory—H. H. Gutterson, archt., 526 Powell St., taking bids 1 story and basement, 50,000 sq.ft. floor space, rein.-con., 11th and Mission Sts., for White Truck Co., 1490 Market St.

CONTRACTS AWARDED

Mass., Auburn—Factories—J. W. Bishop Co., 125 Foster St., Worcester, will build 1 story, 160 x 275 ft., and 2 story 50 x 125 ft., brick and steel, Webster Rd., here, by day labor. $500,000. Private plans. Baldwin Chain & Mfg. Co., 199 Chandler St., Worcester, lessee.

Mass., Everett (Boston, P. O.)—Plant—Beacon Oil Co., 111 Devonshire St., Boston, 2 and 3 story, brick addition, Beacham St., here, to Bond Bros., 79 Ferry St., Everett. Archts. est. $50,000. Noted Jan. 8.

Mass., Dorchester (Boston P. O.)—Repair and Service Garage—L. Altman, 119 Massachusetts Ave., will build 1 story, 110 x 115 ft., rein.-con. and brick, Blue Hill Ave., here, by day labor. $50,000. Noted Dec. 25.

Conn., Rainbow—Power Plant—Stanley Wks., Grove Hill, New Britain, dam at Poquonock to create artificial lake, also removal of old dam, 8,000 kw. capacity power output, to Power Constr. & Eng. Co., 35 Harvard St., Worcester, Mass. Archts. est. $1,000,000. Noted. Jan. 22.

N. Y., Buffalo—Storage Plant—Superior Elevator Co., Inc., Chamber of Commerce Bldg., rein.-con. storage plant, Hamburg Turnpike, to J. Stewart Co., Inc., 343 South Dearborn St., Chicago, Ill., to exceed $1,000,000.

N. Y., New York—Newspaper—New York Evening Post, Curtis Publishing Co., Independence Sq., Phila., Pa., 15 story, 125 x 135 x 180 ft., brick, concrete and steel, plain foundation, 71 West St., here, to Thompson-Starrett Co., 49 Wall St.

N. J., Camden—Plant—R. M. Hollingshead Co., Cooper and 9th Sts., rein.-con., brick and steel, plain foundation, to W. Steele & Son, 219 North Broad St., Phila., Pa.

Pa., Phila.—Brew and Mill House—J. Horning, 2125 West Clearfield St., 5 and 6 story and basement, 58 x 90 ft., rein.-con. and brick, plain foundation, 2125 West Clearfield St., to G. Kessler Constr. Co., 1733 North Marvine St., $175,000.

Pa., Phila.—Weave Shed—Craftex Mills, Inc., Kensington and Venango Sts., 1 story and basement, 69 x 110 ft., brick and steel, plain foundation, Venango St., to Knox-Landers Co., 1132 Vine St. Archts. est. $40,000.

Md., Conowingo—Power Plant—Susquehanna Power Co., (owned by Phila. Electric Co., 10th and Chestnut Sts., Phila., Pa.), constructing hydro-electric power plant, 460,000 hp., 3,680 ft. dam, 103 ft. high at spillway section across susquehanna River, to Stone & Webster, 120 Bway., New York City, $52,200,000.

O., Canton—Pottery—Steubenville Pottery Co., Steubenville, plant, here, to H. K. Ferguson, 4900 Euclid Ave., Cleveland. Archts. est. $200,000.

O., Cleveland — Factory — Central Brass Mfg. Co., c/o E. A. Eckhouse, pres. East 55th St., 3 story and basement, 63 x 122 ft., rein.-con. and brick, East 55th St., to Bolton-Pratt Constr. Co., 7113 Euclid Ave. Archts. est. $125,000. Noted Dec. 11.

O., Cleveland—Factory—MacDonald Mfg. Co., M. MacDonald pres., 5015 Wellesley Ave., 1 story, 38 x 60 ft., brick and steel addition, to Super-Built Constr. Co., 1836 Euclid Ave., Cleveland, Archts. est. $40,000. Noted Jan. 5.

O., Cleveland—Factory—Mueller Electric Co., c/o R. S. Mueller, 1583 East 31st St., 1 story, 38 x 60 ft., brick and steel, 1587 East 31st St., to The H. K. Co., West 103rd St. Archts. est. $40,000.

O., Cleveland — Factory — Schonberg Printing Co., D. Schonberg, 1635 East 25th St., 1 story, 50x165 ft., brick and timber, 1635 East 25th St., to deHamel Constr. Co., Plymouth Bldg. Archts. est. $40,000. Noted Dec. 18.

O., Cleveland—Plant—Cleveland Co., G. F. Moran, genl. mgr., Leader News Bldg., 4 story, 125 x 280 ft., brick and rein.-con., Superior Ave., to Crowell & Little Constr. Co., 930 Hanna Bldg. Archts. est. $750,000. Noted Nov. 27.

O., Cleveland—Storage—City, 3 story, 60 x 80 ft., rein.-con., alum storage building, Fairmount Rd., to Natl. Concrete Fireproofing Co., Union Mortgage Bldg., $129,713. Archts. est. $150,000.

O., Denison — Factory — Denison Sewer Pipe Co., will build 1 story, 112x288 ft., brick and steel, by day labor. $100,000, Lockwood, Greene & Co., Hanna Bldg., Cleveland, archts.

O., Norwalk — Factory — Bostwick & Goodell, W. Goodell, pres., 1 story, 85 x 300 ft., brick and steel, to H. R. Ferguson Co., 4900 Euclid Ave. Archts. est. $100,000.

Mich., Detroit—Substation—Pub. Lighting Comn., East Atwater St., constructing substation, to Corrick Bros., 507 Owen Bldg., $60,714.

Mich., Grand Rapids — Plant — Hayes Ionia Co., 7th and Muskegon Aves., 1 story, 100 x 200 ft., brick and steel, plain foundation, Muskegon Ave., to Owen Ames Kimball Co., Pearl St., about $40,000.

Ill., East St. Louis — Plant — St. Louis Pressed Steel Co., 2701 McCasland Ave., 1 story, 100 x 100 ft., brick and steel, 27th and McCasland Ave., to J. I. Gedney, 1461 Hall St.

Wis., Waupun—Factory—F. J. Stepnoski, archt., Forest Ave., Fond du Lac, 2 story and basement, 40 x 80 ft., brick and timber addition, North Water St., here, to J. D. Gysbers, Waupun, for Teeple Shoe Co., c/o H. M. Larson, mgr. Archts. est. $40,000. Noted Jan. 8.

Ia., Marshalltwon—Factory—C. A. Dunham Co., 809 East Main St., 2 story, 50 x 150 ft. and 30 x 50 ft., brick and concrete, East Main St., to Tepager Constr. Co., Albert Lea, Minn., $52,000. Noted Jan. 1.

Ia., Sac City—Power Plant—Russell & Fry, Storm Lake, will build Diesel power plant, here, by day labor. $40,000.

Mo., Springfield — Warehouse and Mill — Holland-O'Neal Milling Co., McDaniel Bldg., general contract 2 story, 40 x 185 ft. with 36 x 40 ft. annex, brick and concrete, to S. E. Dobbs, 530 West Lynn St. Archts. est. $60,000.

Mo., St. Louis—Mill—Compton Planing Mill Co., 3313 South Compton Ave., will build 2 story, 32 x 80 ft., semi-fireproof addition, by day labor. S. O. Schumacher, 8635 Mora Lane, archt.

Mo., St. Louis — Shops — Middletown Realty Co., International Life Bldg., eleven 1 story retail shops, Delmar Blvd. and Taylor Ave., to Cornet-Casey Co., Chemical Bldg. Archts. est. $200,000. Skouras Bros. Enterprise, Grand Central Bldg., lessee.

Tex., Trinidad — Power Plant — Texas Public Utilities Co., Interurban Bldg., Dallas, subsidiary of Southwestern Power & Light Co., increasing 40,000 kw. plant to 150,000 kw., to Texas Constr. Co., Interurban Bldg., Dallas. Archts. est.. $3,000,000. Noted Jan. 8.

Okla., Chandler -- Ice Plant — Chandler Ice Co., 1 story, 55 x 110 ft., brick and concrete plant, to B. R. Dustin, Chandler.

Calif., Oakland—Factory—Oakland Gum Co., 385 2nd St., 1 story, brick, Adeline St., to Beckett & Wight, 2457 Webster St., Berkeley, $40,000.

Calif., Oakland—Plant—California Packing Corp., 101 California St., San Francisco, brick annex, 1st and Filbert Sts., to H. J. Christensen, 507 17th St., Oakland, $55,000.

Calif., San Francisco — Plant — R. McLeran Co., Hearst Bldg., will build 3 story and basement, 53,000 sq.ft. floor space, rein.-con., south Market district, by day labor. $550,000. California Baking Co., Fillmore and Eddy Sts., lessee. Noted Aug. 21.

Ont., Simcoe—Factory—Brooke Woolen Mills, constructing 30 x 50 ft. extension to factory, to Schultz Bros., Brantford. Archts. est. $50,000.

Buildings—Commercial

PROPOSED WORK

Me., Kennebunkport — Hotel — Longford House, Cape Porpaine, plans hotel addition. To exceed $150,000. H. M. Petzold, 712 Bay State Bldg., Lawrence, Mass., archt.

Me., Portland—Rectory—St. Joseph's Roman Catholic Church, having sketches made by O'Connell & Shaw, 134 Newbury St., Boston, Mass., 3 story and basement, brick, Stevens Ave. $150,000 or more.

Mass., Attleboro—High School—School Bd. plans 2 story Junior High School. $200,000. Engineer and architect not selected.

Mass., Attleboro—Hospital—Sturdy Hospital, having plans prepared by Kendall, Taylor & Co., 142 Berkeley St., Boston, 3 story and basement, brick, stone and concrete addition, Sturdy St. $200,000. Noted Dec. 18.

Mass., Boston — Garage — Chamberlain Garage, Inc., c/o L. S. Joslin, archt., c/o Joslin Co., 339 Newbury St., having plans prepared 5 story, 18,000 sq.ft. floor space, rein.-con., brick and steel, plain foundation, 8-16 Stoneholm St. To exceed $150,000.

Mass., Boston—Garage—J. M. Howe, 10 State St., plans 6 story garage, 27,000 sq.ft. floor space, Bowdoin Sq., Green St., and Stanford Pl. To exceed $150,000. Engineer and architect not selected.

Mass., Boston—Store and Office—J. A. Cronin, 246 Huntington Ave., plans probably 5 story or more, 1,800 sq.ft. floor space, Huntington Ave. To exceed $150,000. Engineer and architect not selected.

Mass., Brockton—Store—Majestic Realty Co., c/o C. T. Olson, archt., 101 Main St., having revised plans prepared 2 story and basement, 90 x 171 ft., rein.-con., brick and stone, Wales Ave. and Main St. $150,000. Noted Dec. 11.

Mass., Cambridge (Boston P. O.) — Apartment—S. F. Mitell, c/o G. N. Jacobs, archt., 4 Park St., Boston, having plans prepared 5 story and basement, 104 x 201 ft., brick and stone, Prescott St. and Bway., here. $450,000.

Mass., Cambridge (Boston, P. O.)—Convent—Notre Dame Parish, A. Rabel, pastor, 35 Middlesex St., raising funds to exceed $150,000 for convent North Sect.

Mass., Cambridge — Theatre — College House Trust, c/o C. A. Newhall, 73 Tremont St., Boston, plans 1 story, 50 x 100 ft., brick, steel and stone, Harvard Sq. $150,000. Engineer and architect not selected.

Mass., Duxbury—High School—Bd. Selectment having sketches made by J. W. Beal & Sons Co., 62 Summer St., Boston, 2 story and basement high school. $150,000.

Mass., Fall River—Theatre—N. Yamins, 57 Main St., having plans prepared by J. M. Darling, 56 Main St., 1 and 2 story, rein.-con. and brick, plain foundation, Main St. $150,000.

Mass., Fitchburg — High School — City Council had sketches made high school addition. $200,000. Engineer and architect not selected.

Mass., Framingham — Hospital — Framingham Hospital Assn., plans 50 room addition, incl. laundry and power house. $150,000.

Mass., Malden — Church — St. Joseph's Roman Catholic Church Society, P. H. Walsh, pastor, Salem St., plans 1 story and basement, 60 x 150 ft. church, Salem St., Maplewood Sect. $150,000. Engineer and architect not selected.

Mass., Medford — Clubhouse — Medford Catholic Woman's Club, I. F. Hayes, chn., raising $150,000-$200,000 funds for clubhouse. Engineer and architect not selected.

Mass., Medford—Store and Office—M. Greenspan, 31 Milk St., Boston, plans 3 or more story, brick store and office building, Medford St., here. $150,000. Engineer and architect not selected.

Mass., Melrose (Ind. Br. Boston)—Administration—City, A. M. Tibbetts, mayor, plans administration building. $150,000 or more. Engineer and architect not selected.

Mass., New Bedford—Garage—M. B. Davis, 155 Main St., Brockton, having plans prepared by R. P. Jackson, 86 Main St., Brockton, 2 story, 100 x 145 ft., rein.-con. and brick, Spring St. and Acushnet Ave., here. $160,000.

Mass., New Bedford — High School — School Comn., having revised plans prepared by Browne & Poole, 688 Pleasant St., 3 story and basement, 150 x 225 ft., rein.-con., brick and steel, County and Morgan Sts. $200,000. Noted Dec. 4.

Mass., North Attleboro—School—A. R. Briggs, chn. Building Comn., having preliminary sketches made by McLoughlin & Burr, 88 Tremont St., Boston, for school. $150,000.

Mass., Northampton—Hospital—Dickinson-Cooley Hospital, Locust St., having plans prepared by K. S. Putnam, 78 Main St., altering and constructing 2 story and basement, 65 x 100 ft., brick addition. $150,000.

Mass., Quincy (Ind. Br. of Boston) — Church—Wollaston Congregational Church Society, C. M. Godfrey, chn. Building Com., 407 Highland Ave., having plans prepared by Smith & Walker, 80 Boylston St., Boston, 1 story and basement, 60 x 100 ft., rein.-con. and granite, Highland Ave., Wollaston Sect. $150,000.

Mass., Quincy (Boston P. O.) — High School—City, A. Barbour, mayor, in charge, plans Junior High School, Center and Granite Sts. $400,000. Engineer and architect not selected.

Mass., Somerville—Memorial—Bd. Alderman having preliminary sketches made by Ritchie, Parsons & Taylor, 15 Ashburton Pl., Boston, municipal memorial building. $160,000. Noted Jan. 15.

Mass., Springfield—Warehouse and Office—Crane & Co., Hampden St., plans 4 story, rein.-con. and steel, Cypress and Boylston Sts. $250,000.

Mass., Springfield—Springfield Y. M. C. A., plans altering and constructing 2 additions, Chestnut St. Bureau of International Y. M. C. A., 347 Madison Ave., New York City, archts.

Mass., Waltham—School—Sacred Heart Roman Catholic Church, 369 River St., plans church, River St. $150,000 or more. Engineer and architect not selected.

Mass., Watertown—Schools—C. M. Abbott, chn. Building Comn., 16 Columbia Rd., plans addition to Coolidge School, Arlington and Mt. Auburn Sts., $150,000-$200,000; also new school, North End Dist., $150,000. Engineer and architect not selected.

Mass., Wellesley—Hospital—Convalescent Home for Children, G. H. Monk, pres., 10 Hillside Ave., Chelsea, plans addition to hospital. To exceed $150,000. S. W. Mead, 804 Barristers Hall, Boston, archt.

Mass., Woburn — High School — T. N. Duffy, mayor, plans 2 story high school addition. To exceed $150,000. Engineer and architect not selected.

R. I., Edgewood — Temple — Harmony Lodge, having preliminary plans prepared by Jackson, Robertson & Adams, 1216 Turks Head Bldg., Providence, 2 story and basement, 40x97 ft. with 60x60 ft. wing, brick and steel, Norwood Ave. $125,000-150,000.

R. I., Providence — Gymnasium — Brown University, Prospect St., having plans prepared by Clarke & Howe, 1208 Turks Head Bldg., new gymnasium, Sessions and Elm Grove Ave. $750,000.

Conn., Bristol—Hospital—Isolation Hospital Com., City Council, City Hall, plans hospital. To exceed $150,000. Engineer and architect not selected.

Conn., Hartford—Store and Apartment—C. Podnetsky, 203 Westbourne Parkway, having preliminary plans prepared 4 or 5 story, about 75 x 160 ft., brick and stone, plain foundation, Wethersfield Ave. $200,000. Probably private plans.

Conn., Middletown—Business—J. Poliner & Sons, Main and Ferry Sts., having plans prepared by Berenson & Moses, 30 Alyn St., Hartford, 3 story and basement, brick and steel, Main St. $150,000.

Conn., New Britain — School — School Comn., City Hall, receiving competitive plans East Side School, brick and steel, Day St. $200,000.

Conn., Waterbury—Church—Immaculate Conception Roman Catholic Church, W. J. McGurk, pastor, East Main St., plans new church on west Main St., instead of remodeling old one on East Main St. $300,000. Engineer and architect not selected.

Conn., Windsor — Temple — Washington Lodge, Masonic Hall Assn., A. H. Chamberlin, chn. of directors, plans temple. $175,000. Engineer and architect not selected.

N. Y., Buffalo — Apartment — M. M. Swerdloff, Prudential Bldg., had plans prepared by J. P. Geigand, 346 Herman St., 4 story, 114 x 190 ft., rein.-con., brick and stone, plain foundation, Delaware Ave. $500,000.

N. Y., Buffalo—School—Bd. Educ., Telephone Bldg., purchased site and plans new school, 7th St. $250,000.

N. Y., New York—Apartments—Derfner & Semel, Inc., c/o S. V. Becker, archts., 1301 Boston Rd., having plans prepared four 5 story, brick, steel and stone, plain foundations, Grand Ave. near Burnside Ave. $250,000 each.

N. Y., New York—Apartment—Phipps Estate, c/o Cross & Cross, archts. and engrs., 385 Madison Ave., having plans prepared brick, stone and steel, plain foundation, Madison Ave. $1,000,000.

N. Y., New York—Apartment—Sugarman & Berger, archts. and engrs., 245 Madison Ave., preparing plans 7 story, brick, steel and stone, plain foundation, 26 5th Ave. $300,000. Owner's name withheld.

N. Y., New York—Club and Hotel—Lovell Club, Inc., 922 St. Nicholas Ave., having revised plans prepared by Clinton & Russell, 100 Maiden Lane, 14 story, brick, steel and stone, plain foundation, 251 West 73rd St. $1,000,000. Noted Nov. 6.

N. Y., New York—Office—Oceanic Investing Co., c/o Cross & Cross, archts. and engrs., 385 Madison Ave., having plans prepared 15 story, brick, steel and stone, plain foundation, 5th Ave. and 42nd St. $1,500,000.

N. Y., New York—Theatre—J. Cort, 136 West 45th St., having plans prepared by B. W. Levitan, 100 East 42nd St., 3 story, brick, steel and stone, plain foundation, Fordham Rd. $300,000. Noted Dec. 18.

N. Y., New York—Institute—Seamans Church Institute, 25 South St., soon takes bids 16 story, brick, steel and stone addition, plain foundation, South St. $1,000,000. Warren & Wetmore, 14 East 47th St., archts.

N. Y., New York—Warehouse—Underwriters Salvage Co., 45 John St., had plans prepared by R. G. Cory, archt. and engr., 30 Church St., 6 story, brick, steel and stone, plain foundation, 539 Broome St. $250,000.

New Jersey — Schools — Hopewell Twp. School Bd., Hopewell, having plans prepared by J. O. Hunt, 219 East Hanover St., Trenton, 2 story, 14 room school, in Hopewell, $175,000, and 2 story, 8 room one at Pennington, $80,000.

N. J., Englewood—Parish House—Englewood Presbyterian Church having revised plans prepared by Allen & Collins, 75 Newbury St., Boston, Mass., 3 story and basement, stone and stucco, plain foundation. To exceed $150,000.

N. J., Jersey City—Normal School—State Bd. Educ., Trenton, had plans prepared by Guilbert & Bertelle, Commerce Bldg., Newark, normal school, Hudson Blvd., here. $1,000,000. Noted Mar. 13.

Pa., Allentown — Store — Zollinger & Harned, 611 Hamilton St., having plans prepared by J. L. Brugger, 505 Chestnut St., Phila., 4 story and basement, 86 x 230 ft., rein.-con., brick and steel, plain foundation, 6th and Hamilton Sts. Carson & Carson, 22 South 15th St., Phila., engr.

Pa., Johnstown—Public Safety—M. Z. Smith, city comr., takes new bids about Feb. 15, 5 story and basement, 75 x 100 ft., brick and steel, Washington St. $200,000. Former bids rejected. Hersh & Sholler, Commerce Bldg., Altoona, archts. Noted Nov. 27.

Pa., Perryville—Sisters—Sisters of Devine Providence, 1725 Lincoln Ave., Pittsburgh, having plans prepared by Kauzor Bros., Dollar Savings & Trust Bldg., N. S. Pittsburgh, 4 story and basement sisters building, Three Degree Rd. $500,000.

Pa., Pittsburgh — Garage — J. Feegenbaum, c/o C. G. Gerber, engr., 1st Natl. Bank, having plans prepared 6 story and basement, 86 x 101 ft., brick and tile, 4th Ave. $200,000.

Pa., Pittsburgh—High School—Bd. Educ., Fulton Bldg., having plans prepared by O. M. Topp, Jenkins Arcade Bldg., 3 story and basement, 75 x 173 ft. addition to Gladstone Junior High School, Hazelwood Ave. and Gladstone St. $495,000.

Pa., Pittsburgh — Police Station — City, c/o Dept. Pub. Safety, having plans prepared by J. P. Breman, City Hall, 2 story and basement addition to Central Police Station, 15th Ave., Water and Short Sts. $200,000.

Pa., Pittsburgh—School—St. Georges Roman Catholic Congregation, c/o S. J. Schramm, 100 Allen St., having plans prepared by C. G. Strong, Keystone Bldg., 3 story and basement, 109 x 124 ft., brick and hollow tile, Climax St. $200,000.

Pa., Scranton — Store — Scranton Dry Goods Co., Lackawanna and Wyoming Sts., having plans prepared by Davis & Lewis, Union Bank Bldg., 8 story and basement, 57 x 137 ft., brick and steel, plain foundation.

Md., Baltimore—Apartment—Baltimore-Washington Realty Co., 16 West Lexington St., having plans prepared by L. R. White, Jr., Hearst Tower, 4 story, brick and steel,

Buildings—Commercial (Continued)

plain foundation, St. Paul and 31st Sts. $200,000.

Fla., Bradentown—Hotel—Hotel Corp. of Bradentown, J. T. Campbell, secy. and treas., having plans prepared by F. Winn, Citizens Bank Bldg., Tampa, 8 story, 26 x 100 ft., steel and concrete, Price and Washington Sts. $500,000.

Fla., Coconut Grove—Hotel—Bay Front Holdings, Inc., H. A. Ahlman, pres., Miami and Coconut Grove, plans 10 story hotel, Bay Front.

Fla., Palm Beach—Hotel—Owner, c/o J. E. R. Carpenter, archt. and engr., 598 Madison Ave., New York City, having plans prepared brick and stone hotel, plain foundation, here. $1,000,000.

Miss., Columbus—Hotel—A. Gunter soon takes bids 4 story, 77 x 144 ft., brick and concrete addition to Commercial Hotel. $150,000. R. A. Heavener, Peoples Bank Bldg., Jackson, Tenn., archt. Noted Feb. 7.

La., New Orleans—Church—St. Charles St. Baptist Congregation, St. Charles St. and Audubon Pl., having plans prepared by Favrot & Livaudais, Hibernia Bank Bldg., new 144 x 144 ft. church, and remodeling adjoining parsonage. $150,000 plus.

La., New Orleans—Garage—W. B. Spencer, 321 St. Charles St., E. M. Loeb, 618 Magazine St., and R. E. Loeb, Hibernia Bldg., having plans prepared by W. H. Williams Co., Inc., 814 Howard St., 6 story garage, Iberville St. between Royal and Bourbon Sts. $400,000.

Tenn., Kingsport — High Schools — Bd. Educ., R. N. Robinson, supt., plans modern fireproof high school. $250,000. Engineer and architect not selected. F. J. Brownwell, Kingsport, pres. Noted Dec. 18.

Tenn., Maryville—High School—Blount Co. Bd. Educ. election soon $200,000 bonds for central county high school.

Tenn., Memphis—Office — D. Dermon, Bank Commercial Bldg., plans 8 story, 74 x 148 ft., brick and rein.-con., Court and North 3rd Sts. $150,000.

Tenn., Nashville—College—George Peabody School for Teachers, B. R. Payne, pres., 21st Ave. S., plans to raise $816,000 funds for 4 dormitories, $315,000 for agricultural building, $275,000 for fine arts building, $1,050,000 for music hall, $250,000 for faculty apartment, etc. Total est. approximately $3,600,000.

O., Akron—Auditorium and Theatre—Summit Co. Klu Klux Klan, plans auditorium and theatre, Fir St. $500,000.

O., Cincinnati — Hotel — R. A. Casey Realty Co., Pickering Bldg., having plans prepared by Tietig & Lee, 34 West 6th St., 6 story and basement, 80 x 90 ft., rein.-con., and brick, plain foundation, Garfield Pl. $500,000.

O., Cleveland—Apartment—J. Shafran, 10720 Amor Ave., having plans prepared by M. Altschuld, 5116 Woodland Ave., 3 story and basement, 37 x 157 ft., brick and timber, East 88th St. north of St. Clair Ave. $150,000.

O., Cleveland—Garage—May Co., N. L. Dauby, vice-pres., Euclid and Prospect Aves., had plans prepared by Lehman-Schmitt Co., Hunkin-Conkey Bldg., 3 story and basement, 150 x 198 ft., rein.-con. and brick, West 2nd St. and Lakeside Ave. $250,000.

O., Cleveland — Social Welfare — P. Wheatley Assn., c/o J. Hunter, secy., 2269 East 40th St., had plans prepared by Hubbell & Benes, 4500 Euclid Ave., 5 story brick, steel and concrete, Cedar Ave. $500,000.

O., Cleveland—Store and Office—I. C. Glauber, c/o Natl. Woolen Co., 3131 West 33rd St., plans 4 story brick and steel, Prospect Ave. east of 14th St. $150,000. Engineer and architect not selecetd.

O., Cleveland—Store and Office—Haines-Kemper Impvt. Co., c/o F. G. Kemper, 9910 St. Clair Ave., having preliminary plans prepared 3 story and basement, brick, on 132 x 134 ft. lot, East 106th and St. Clair Ave. $225,000. Private plans.

O., Crown City—School—Bd. Educ., A. L. Dillon, clk., plans 3 story and basement, brick and concrete school. $185,000. Engineer and architect not selected.

O., Harrod—School—Bd. Educ., C. K. Hay, clk., having sketches made 2 story and basement, brick and concrete school. $175,000. Engineer and architect not selected.

O., Hartville—School—Bd. Educ., having plans prepared by T. R. Ridley & H. Glazer, Federal Oil & Gas Bldg., Akron, 2 story and basement, brick and steel. $200,000.

O., Lakewood (Cleveland P. O.)—Store and Apartment—Syndicate, c/o H. Laronge, Williamson Bldg., plans 3 story, brick, Detroit St. $150,000. Engineer and architect not selected.

O., Lorain—Church and Sunday School—Methodist Episcopal Church, C. B. Hess, pastor, 658 Rerd St., having plans prepared by W. H. Nicklas, 1227 Prospect Ave., Cleveland, 2 story, concrete, brick and steel. $160,000.

O., Mansfield—Temple—Masonic Temple Building Co., A. F. Porter, secy., 106 North Main St., having sketches made by Vernon, Redding & Associates, Bird Bldg., 3 story, 130x180 ft., brick, steel and concrete. $300,000.

O., New Philadelphia—High School, etc. —Bd. Educ. having plans prepared by Walker & Norwich, 1301 Amer. Bldg., Dayton, Junior High School, 2 story and basement, brick, hollow tile and concrete. $375,000. Noted Nov. 27.

Mich., Dearborn — Theatre — Owners Mutual Investment Co., having plans prepared 2 story and basement, 109 x 200 ft., rein.-con., brick and steel, plain foundation, Michigan Ave. $150,000. Engineer and architects' names withheld.

Mich., Highland Park (Detroit P. O.)—Lodge—Highland Park Lodge 563, F. & A. M., having plans prepared by F. O. Varney, 1422 Washington Blvd., Detroit, 3 story and basement, 80 x 124 ft., rein.-con., brick and steel, plain foundation, Grand Ave. $200,000.

Mich., Pontiac—Church—First Congregational Church, Mill St., having plans prepared by W. E. N. Hunter, 2457 Woodward Ave., Detroit, 2 story and basement, 64 x 216 ft., rein.-con., brick, steel and stone, plain foundation, Mill St. $200,000.

Mich., Pontiac—Hotel—R. M. Grindley, 1112 First Natl. Bank, having plans prepared by Murphy & Burns, 3456 Cass Ave., Detroit, 8 story and basement, 120 x 140 ft., rein.-con., brick and stone, plain foundation, East Huron St.

Mich., River Rouge — School — Lady of Lourdes Parish having plans prepared by A. R. Morrison, 702 Life Bldg., Detroit, 3 story and basement, 14 room, rein.-con., brick and stone, plain foundation. $200,000.

Mich., Royal Oak — High School — Bd. Educ., F. Hendry, supt., having preliminary plans prepared 3 story and part basement, rein.-con., brick and steel, plain foundation, Washington and Willis Aves. $1,250,000. Engineer and architects' names withheld.

Ill., Galesburg — Church — Trinity Lutheran Church, Ferris and Kellogg Sts., takes bids in early spring, brick church, plain foundation. $200,000. A. Hanson, 721 North Michigan Ave., Chicago, archt.

Ill., East St. Louis — Warehouse and Garage—Standard Oil Co., 400 East Cerro Gordo St., Decatur, takes bids about Feb. 1, 1 and 2 story, 80 x 200 ft., concrete and brick, 14th St. and McCasland Ave., here. Schlinz & Bailey, Monadonock Bldg., Chicago, engrs. and archts. Noted Sept. 25.

Ill., Springfield — Theatre — Balaban & Katz Midwest Theatres, Inc., 162 North State St., Chicago, plans rein.-con., brick, stone and terra cotta theatre, 3,000 seating capacity. $750,000 or more.

Ill., Waukegan—High School—Waukegan Twp. School Bd., c/o J. E. Reardon, secy., plans brick and concrete high school. $200,000. Engineer and architect not selected.

Wis., Eau Claire — High School — Bd. Educ., F. Stussy, secy., 308 Madison St., having plans prepared by E. J. Hancock, Lacock Bldg., constructing Senior High School, 3 story and basement, brick and concrete, plain foundation, and remodeling present building into Junior High School. $660,000. Noted Nov. 27.

Wis., Fond du Lac — School — F. J. Steposki, archt., Forest Ave., soon takes bids 2 story and basement, 80 x 103 ft., brick and tile for St. Peters Congregation, c/o A. C. Egelhoff, 87 Main St. $150,000.

Wis., La Crosse—Hospital—Grandview Hospital, 1707 Main St., plans 4 story and basement, brick and concrete hospital addition, plain foundation. $150,000. Engineer and architect not selected.

Wis., Milwaukee — Apartment — A. T. Brumm, 147 3rd St., plans 3 story and basement, brick, plain foundation, 17th St. $150,000. Engineer and architect not selected.

Wis., Milwaukee — Apartment Hotel—I. H. Benesch Co., 513 Van Buren St., plans 100x200 ft., concrete and brick, plain foundation, Grand Ave. $350,000. C. J. Keller & Son, 432 Bway., archts.

Wis., Milwaukee — Apartment — A. N. Becker Eng. Co., archts. and engrs., 308 North Ave., making preliminary plans 3 story and basement, brick and concrete, plain foundation, 36th St. $150,000. Owner's name withheld.

Wis., Milwaukee — Apartment — C. J. Keller & Son, 432 Bway., archt., making preliminary plans 4 story and basement, 57 x 118 ft., brick and concrete, plain foundation, west side. $175,000. Owner's name withheld.

Wis., Milwaukee—Club—University Club, 491 Jefferson St., M. Wells, secy., plans brick, stone and concrete, plain foundation, Juneau Pl. $300,000 or more. Engineer and architect not selected.

Wis., Milwaukee—School—School Bd., F. Harbach, secy., soon takes bids 2 story and basement, 115 x 174 ft., brick and tile addition, plain foundation, Oklahoma Ave. $200,000. Van Ryn & De Gelleke, 114 Grand Ave., archts. Noted Oct. 16.

Wis., Milwaukee — Synagogue — Beth Israel Congregation, c/o S. Michel, 175 Queen Ann Pl., having plans prepared by H. H. Bruns, 845 26th St., 2 and 1 story and basement, brick and concrete, plain foundation, Teutonia Ave. $175,000.

Wis., Wausau—Bank and Office—Childs & Smith, archts., 720 North Michigan Blvd., Chicago, Ill., soon take bids 8 story and basement, 50 x 122 ft., brick, concrete and stone, plain foundation, here, for Amer. Natl. Bank, 3rd and Scott Sts. $350,000.

Ia., Cedar Falls—Dormitory—Iowa State Teachers College, having preliminary plans prepared by Proudfoot, Bird & Rawson, 810 Hubbell Bldg., Des Moines, 3 or 4 story, brick, stone and concrete dormitory for men. $150,000 or more.

Ia., Cherokee — Lodge — A. F. & A. M. Lodge, c/o C. Graves, chn. building com., had plans prepared by L. H. Redenbaugh, Cherokee, 3 story and basement, rein.-con., brick and stone lodge. $150,000.

Ia., Clinton — Church — Presbyterian Church had plans prepared by J. C. Wood, 410 Howes Blk., Clinton, rein.-con., brick and stone church-manse. $200,000. Noted Nov. 13.

Ia., Iowa City—Medical Laboratory—State Bd. Educ., W. H. Gemmill, secy., takes bids about Feb. 15, 4 story, 222 x 316 ft., rein.-con., brick and stone addition to Rockefeller Medical Building. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., Des Moines, archts.

Ia., Marshalltown—Theatre and Office—A. H. Blank, 326 Iowa Bldg., Des Moines, plans 3 or 4 story, rein.-con., brick, tile and stone. $400,000. Engineer and architect not selected.

Ia., Corning—School—Defeated $175,000 bonds for school. Noted Jan. 8.

Minn., Minneapolis—Bank and Office—Marquette Natl. Bank & Marquette Trust Co., R. W. Manuel, pres., 52 South 4th St., plans probably 12 story, rein.-con., brick and stone, 517 Marquette Ave. $400,000. Engineer and architect not selected.

Minn., Minneapolis—School and Church—Church of St. Thomas, 3115 West 44th St., having plans prepared by J. V. Vanderbilt, 1645 Harmon Pl., rein.-con., brick and stone, Upton Ave. S. and 44th St. $150,600.

Kan., Chanute—High Schools, etc.—Bd. Educ. election Feb. 10, $350,000 bonds additions to Junior and Senior High Schools, incl. domestic science cottage, manual training shop and agriculture laboratory. T. W. Williamson & Co., 312 Central Natl. Bank Bldg., Topeka, archts.

Kan., Lawrence—Dormitory and Auditorium—Kansas University having preliminary plans prepared by C. M. Routtedge, Capitol, Topeka, 2 and 3 story, concrete, brick and stone dormitory and auditorium, $200,000 each.

Kan., Topeka—Home—T. W. Williamson & Co., archts., 312 Central Natl. Bank Bldg., takes bids after Feb. 12, 3 story and basement, 42 x 88 ft., and 42 x 150 ft., rein.-con., brick and stone house, for Mason College (Methodist Episcopal Congregation). $150,000. Noted Dec. 4.

Mo., Carthage—Hospital—Carthage Hospital Assn., soon takes bids 3 story and basement, 42 x 148 ft., brick and concrete. $150,000. Holt, Price & Barnes, 600 Davidson Bldg., Kansas City, archts. P. K. Simpson, Carthage, associated archt. Noted Sept. 11.

Mo., Clayton—School—John Burroughs Country Day School, Price Rd. and Clayton tracks, soon takes bids 2 story, brick and concrete school. $150,000.

Mo., Jefferson City—High School—W. T. Carrington, secy. Bd. Educ., soon takes bids 3 story, 115 x 190 ft., rein.-con., brick and steel high school. $260,000. Owen, Payson & Carswell, 605 Interstate Bldg., Kansas City, archts. Noted Oct. 30.

Mo., Hannibal—School—Bd. Educ. soon takes bids Eugene Field School, 2 story and basement, brick and concrete. $175,000. M. S. Martin, Odd Fellows Bldg., archt.

Buildings—Commercial (Continued)

Mo., St. Louis — Commercial—C. C. Ketcham, 722 Chestnut St., having preliminary plans prepared by J. D. Paulus, 4729 Northland Ave., 2 story and basement, 78x118 ft. brick and concrete, Olive and Cardinal Sts.

Mo., St. Louis—Commercial—C. F. Levy, c/o Hub Furniture Co., 8th and Washington Aves., plans 12 story and basement, rein.-con. and brick commercial building, and 4 story top addition to 8 story building, 8th and Washington Aves. To exceed $500,000.

Mo., St. Louis—Hotel and Theatre—H. A. Sodine, et al., c/o Majestic Hotel, making preliminary plans razing Laclede Hotel and erecting 9 story and basement, brick, steel, concrete, stone and terra cotta hotel and theatre on 110 x 135 ft. site, 6th and Chestnut Sts. $1,000,000 upwards. Engineer and architects' names withheld.

Mo., St. Louis—Library—A. B. Grove, archt., 320 North 4th St., soon takes bids 2 story and basement, rein.-con., brick and stone, Lindell Blvd., for St. Louis Medical Society, 3531 Pine St. $165,000.

Mo., St. Louis—School—Washington University, Skinker and Forsythe Aves., soon takes bids Fine Arts School, 2 story and basement, 69 x 204 ft., rein.-con., granite and Indiana limestone. $250,000. Jamieson & Spearl, Arcade Bldg., archts.

Ark., Little Rock — Church — Winfield Methodist Memorial Congregation, c/o C. E. Hayes, chn., takes bids about Apr. 1, 2 story, 125 x 145 ft., rein.-con., brick and stone church. Thompson & Harding, Southern Trust Bldg., archts.

Ark., Russellville—Hotel—R. B. Oliver, et al., c/o Revilo Hotel, Little Rock, takes bids about April 1, 75 room, rein.-con., brick and stone hotel. Private plans.

Tex., Amarillo—Office—Amarillo Building Co. having plans prepared by Shepard & Wiser, R. A. Long Bldg., Kansas City, Mo., 8 story and basement, 50 x 140 ft., brick, stone and rein.-con., plain foundation, Polk and 3rd Sts. $475,000.

Tex., Beaumont — Jail — Jefferson Co. takes bids early part February, 3 story and basement, 66 x 91 ft., brick and rein.-con. $150,000. Livesay & Wiedemann, Beaumont, engrs. and archts.

Tex., Corsicana—Office—C. Pearse, pres. City Natl. Bank, soon takes bids 6 story, 80 x 90 ft. rein.-con., brick and steel addition, plain foundation, Main St. $150,000.

Tex., Corpus Christi — Church — First Christian Congregation, San Antonio, having plans prepared by R. H. Cameron, City Natl. Bank Bldg., San Antonio, 4 story and basement, rein.-con. and brick, Sunday school addition, here. $600,000.

Tex., Dallas—Office—Y. O. McAdams, N. T. Bldg., having plans prepared by C. D. Hill & Co., Central Bank Bldg., 16 story and basement, 100 x 100 ft., brick and steel, plain foundation. $1,200,000.

Tex., El Paso—Hospital—City and El Paso Co. plan hospital. $175,000. Engineer and architect not selected.

Tex., Ft. Worth — Bank and Office — First Natl. Bank, c/o T. B. Yarborough, Rivercrest St., and Sanguinet, Staats & Hedrick, archts., 1st Natl. Bank Bldg., soon take bids remodeling and constructing 11 story and basement, 50 x 100 ft., brick and steel addition, plain foundation, Houston St. $250,000.

Tex., Hillsboro—Hotel—T. A. Johnson, plans 4 story and basement, 60 x 110 ft., rein.-con., brick and stone, South Waco and Walnut Sts. $150,000.

Tex., Houston — Apartment — Brickey & Brickey, archts., State Natl. Bank Bldg., soon take bids 10 story and basement, 150 x 250 ft., rein.-con. and brick, concrete pile foundation. $1,000,000. Owner's name withheld.

Tex., Houston—Court House—Travis Co. having preliminary plans prepared by A. C. Finn, Bankers Mortgage Bldg., new court house. $500,000. C. H. Bryan, co. judge.

Tex., Houston—Hotel—Rice Hotel Co., Main and Texas Sts., N. E. Meadows, pres., having plans prepared by A. C. Finn, Bankers Mortgage Bldg., Dallas, 16 story and basement addition, Main and Travis Sts. $1,000,000.

Tex., Houston—Office—Sakowitz Bros., c/o T. Sakowitz, Main and Preston Sts., plans 12 or 15 story, 100 x 100 ft. office building, Main St. $1,000,000. Engineer and architect not announced.

Tex., Houston — Warehouse — M. DeGeorge, 918 Bagby St., and L. S. Green, archt. Stewart Bldg., soon takes bids. 4 story, 115 x 125 ft., rein.-con. and brick, plain foundation, Crawford St. $150,000.

Tex., McAllen—College—Carroll College (Baptist Church) having revised plans prepared by H. P. Smith, Natl. Bank of Commerce Bldg., San Antonio, and takes bids within 60 days administration building, 2 dormitories and power house, brick and stone, plain foundations. $350,000. Former bids returned unopened. Noted Dec. 5.

Tex., Pittsburg—High School—Br. Educ., W. S. Fleming, pres., having plans prepared by J. W. Westbrook, 407 North Bishop St., Dallas, 3 story and basement, rein.-con. and brick, plain foundation. $150,000.

Tex., San Antonio—Bank—Commercial Natl. Bank & Commercial Loan & Trust Co., having plans prepared by Phelps & DeWees, Gunter Bldg., and soon take bids 4 story, 50 x 90 ft., stone, marble and bronze, Travis and St. Marys Sts. $200,000.

Tex., San Antonio—Hotel—A. Joske, c/o Joske Bros., 102-116 South Alamo St., having preliminary plans prepared 12-15 story and basement, 45 x 317 ft., brick, stone and concrete, Commerce and Presa Sts. $750,000. Engineer and architect not selected.

Tex., San Antonio—Office—M. Stern, 228 West Agarita St., and J. Oppenheimer, A. Kronkosky, etc., having preliminarg plans prepared 8 story and basement, rein.-con., brick and stone, plain foundation, Commerce and St. Marys Sts. $750,000. Engineer and architect not selected.

Tex., San Antonio—Theatre and Office—Syndicate having plans prepared by Kelwood Co., engrs. and archts., Travis Bldg., 6 story and basement, 60 x 140 ft., rein.-con., brick and stone, plain foundation, Commerce and St. Marys Sts. $1,500,000. J. Oppenheimer, 309 Madison St., chn. bldg. com.

Okla., McAlester—Court House—Pittsburg Co., election Feb. 24, $300,000 bonds, 3 story and basement, 80 x 175 ft., rein.-con. and brick, Choctaw St. Engineer and architect not selected.

Wash., Seattle — Schools — Election in March, $2,500,000 bonds for 8 structures, several of which will be new and others additions to present buildings.

Ore., Astoria—Store, Office and Theatre—Lucas & Cash, archts., 317 Lewis Bldg., Portland, take bids about Mar. 10, 3 story, 50 x 90 x 180 ft., rein.-con. and timber, plain foundation, Commercial and 11th Sts., for W. C. Logan, $175,000.

Ore., Salem—Club—Y. M. C. A. takes bids about March 1, 3 story and basement, 80 x 125 ft., rein.-con. and brick, plain foundation, Capitol Sq. $150,000-$200,000. Whitehouse & Post, Portland, and F. A. Legge, Salem, engrs.

Calif., Long Beach—Club—Pacific Club, D. M. Smith, pres., Empire Theatre Bldg., soon takes bids 14 story and basement, 160 x 260 ft., rein.-con., terra cotta, cast stone and pressed brick, Ocean Ave. $900,000. Curlett & Beelman, 408 Union Bank Bldg., archts. Noted Aug. 7.

Calif., Los Angeles — Apartment — W. Bruce, archt., Chapman Bldg., preparing preliminary plans approximately 12 story, 168 x 175 ft., rein.-con., Alta Vista Blvd. $1,500,000. Owner's name withheld.

Calif., Los Angeles—Club—Turn Verein Germania, c/o Krempel & Erkes, archts., Bradbury Bldg., having plans prepared 2 story, 114 x 265 ft., brick and concrete, Washington St. $200,000.

Calif., Los Angeles—School—Bd. Educ. soon takes bids 2 story, 13 room, rein.-con. and brick, South Figueroa St. P. O. Wright & F. H. Gentry, 1133 Central Bldg., archts. Noted Jan. 15.

Calif., Los Angeles—Garage and Loft—Coco Cola Bottling Co., 1334 South Central Ave., had plans prepared by J. M. Cooper, Marsh-Strong Bldg., 2 story (ultimately 4 story), approximately 90x100 ft., rein.-con. 14th St.

Calif., Los Angeles—Schools—T. A. Edison Junior High School Bd. having plans prepared by Walker & Eisen, 701 Great Republic Life Bldg., general construction 2 story main building and auditorium, and 1 story manual training building, both brick, near 65th St. and Goodyear Park. Tr. $350,000.

Calif., Los Angeles—Store and Club—Masonic Club of Los Angeles, c/o Walker & Eisen, archts., Great Republic Bldg., having plans prepared 4 story and basement, approximately 75x150 ft., rein.-con., Grand Ave. $150,000.

Calif., Los Angeles—Terminal and Office—Subway Terminal Corp., c/o Schultze & Weaver, archts., Pacific Mutual Bldg., Los Angeles, and 17 East 49th St., New York City, N. Y., soon takes bids terminal and office building, Hill St. $2,000,000. Noted Oct. 30.

Calif., Los Angeles — Warehouse — A. Wohlfarth, 1607 Pleasant Ave., having plans prepared by A. C. Martin, 228 Higgins Bldg., 5 story (ultimately 8 story), 50 x 130 ft., rein.-con., Pico St. California Storage Co., 2808 West Pico St., lessee.

Calif., Oakland—Apartment—J. K. Kaiser, c/o J. L. Stewart, archt., Claus Spreckels Bldg., San Francisco, had plans prepared 4 story and basement, rein.-con. and timber, Lenox and Grand Aves. $150,000.

Calif., Oakland — Church, Gymnasium and Sunday School—Golden Gate Presbyterian Church, c/o Wythe, Blaine & Olson, archts., 1800 Telegraph Ave., having plans prepared stucco and timber, 54th and Gaskill Sts. To exceed $150,000.

Calif., Oakland — Hospital — Providence Hospital, c/o R. A. Herold, archt., Forum Bldg., Sacramento, having plans prepared 5 story and basement, rein.-con., Webster and Summit Sts. $500,000.

Calif., Pasadena—Club—Y. M. C. A. having plans prepared by Marston, Van Pelt & Maybury, 25 South Euclid Ave., 4 story and basement, 30 x 160 ft., rein.-con. and hollow tile addition, Pasadena St. To exceed $150,000. Noted Dec. 4.

Calif., Pasadena—School—Bd. Educ. soon takes bids Madison School, 2 story, 206 x 218 ft., brick, stucco and stone, Madison and Ashtabula St. $165,000. C. J. Bennett & F. H. Haskell, 600 Security Bldg., engrs.

Calif., Pasadena — School — Pasadena School Dist. had plans prepared by Marston, Van Pelt & Maybury, 25 South Euclid Ave., 2 story, brick, Catalina Ave. and Washington St. $165,000.

Calif., San Francisco—Apartment—G. Boss, 1120 Market St., having plans prepared by E. E. Young, 2002 California St., 4 story and basement, rein.-con., Eddy St. $150,000.

Calif., San Francisco—Exchange—Pacific Telegraph & Telephone Co., 333 Grant Ave., plans fireproof exchange, Otis and McCoppin Sts. $150,000 or more.

Calif., San Francisco—Office—Builders Exchange, 180 Jessie St., having preliminary sketches made 10 story and basement office building, 5th and Minna Sts. To exceed $150,000. Engineer and architect not selected.

Calif., San Francisco—School—City and San Francisco Co., plan school, Taraval St. and Claremont Blvd. $150,000 or more. J. Reid, Jr., City Hall, city archt.

Calif., San Mateo—School—San Mateo School Dist., having plans prepared by E. L. Nordberg, 593 Market St., San Francisco, rein.-con., timber and stucco additions. To exceed $150,000. Noted Dec. 25.

Calif., San Mateo—Store and Warehouse—Smith Furniture Co., 3rd Ave. and B St., having plans prepared by Mitchell-Jackson Co., 235 3rd St., 3 story, 50 x 80 ft. warehouse, and 3 story store and show rooms, both rein.-con., 3rd Ave. and Griffith St. $150,000 or more.

Calif., Santa Monica—Club—Old Colony Club of Santa Monica, having preliminary plans prepared by E. Gray, Bank of Italy Bldg., Los Angeles, 2 story and basement club. $175,000.

Calif., Santa Paula — Schools — Santa Paula Grammar School Dist. having plans prepared by Thorne & Ficker, Western Mutual Life Bldg., Los Angeles, 2 rein.-con. grammar schools. $180,000. Noted Dec. 25.

Calif., Stockton — Hospital — Dameron Hospital, C. McKibben, secy., Lincoln and Magnolia Sts., plans fireproof hospital addition, Lincoln St. $150,000.

Calif., Ventura — Hotel — G. A. Berg, Riviera Hotel, Santa Barbara, plans 5 story fireproof hotel. $250,000.

Ont., Aurora—School—St. Andrews College, Rosedale, Toronto, having plans prepared by F. H. Marani & E. H. Paisley, 35 Colborne St., Toronto, 2 and 3 story and basement, rein.-con., brick and steel, plain foundation, here. $400,000.

Ont., Ottawa—Archives—Roman Catholic Corp. of Ottawa, having plans prepared Viau & Venne, 76 St. Gabriel St., Montreal, Que., rein.-con. and stone, St. Patricks St. $800,000.

Ont., Ottawa—Office—J. A. D. Halbrook, Sparks St., takes bids early in spring 8 story and basement, steel, Sparks St. $200,000. Engineer and architect not selected.

Ont., Petrolia—High School—Bd. Educ. having plans prepared by D. R. Franklin, 487½ Yonge St., Toronto, 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation. $150,000.

Ont., Toronto—High School—Bd. Educ., 155 College St., having plans prepared by C. Dyson, 155 College St., 3 story and basement, 15 room, rein.-con., brick and steel

Buildings—Commercial (Continued)

addition to High School of Commerce, plain foundation, East End. $200,000.

Ont., Toronto—Home—E. J. Lennox, archt., 364 Bay St., preparing plans, and soon takes bids 5 and 6 story and basement, rein.-con., brick and steel, plain foundation, Dunn Ave., for City. $200,000.

Ont., Toronto—Hospital—St. Michaels Hospital, Victoria St., having plans prepared by J. P. Hynes, 73 King St. W., 5 story and basement, rein.-con. or steel addition, plain foundation. $250,000. Noted Jan. 15.

Que., Three Rivers — Home — Sisters Dominicaines having plans prepared by Gascon & Parent, 144 St. Francis Xavier St., orphan home, Notre Dame St. $300,000. Noted Jan. 15.

BIDS DESIRED

Mass., Boston — Apartment — Sixty-Five Commonwealth Ave. Trust, c/o McLaughlin & Burr, 88 Tremont St., taking bids 7 story and basement, 60 x 105 ft., brick and limestone, 65 Commonwealth Ave. $300,000. Noted Jan. 8.

Mass., Boston—Garage—H. M. Haven & L. T. Hopkins, Inc., archts., 11 Beacon St., taking bids 8 story and basement, 120 x 150 ft., rein.-con. and steel, plain foundation, Beach St., for Jordan Marsh Co., Washington St. $500,000. Former bids rejected. Noted July 10.

Mass., Boston—Store and Office—A. F. Goodwin, c/o Little & Russell, archts., 45 Bromfield St., taking bids remodeling and constructing 6 story and basement, brick and stone addition, 154-156 Boylston St. $150,000.

Mass., Brookline (Boston P. O.)—Church—All Saints Episcopal Church, Dean Rd., taking bids altering and constructing 1 story and basement, rein.-con. and granite addition, plain foundation. $150,000. Cram & Ferguson, 248 Boylston St., Boston, archts.

Mass., Lowell—School—Feb. 2, A. O'Connell, pastor, 25 Granby St., Boston, taking bids remodeling 3 and 4 story and basement, 125 x 200 ft., concrete, brick and granite jail into preparatory school for boys, Thorndike St. $300,000. H. L. Rourke, 525 Hildreth Bldg., Lowell, archt. Noted Jan. 15.

Mass., North Reading—Inn—DePesa & Levaggi, Wayland, taking bids Palais Royal Motor Inn, 2 story and basement, 85 x 200 ft., brick and stone, plain foundation. $150,000. F. A. Norcross, 46 Cornhill St., Boston, archt. Noted Sept. 11.

Mass., Quincy (Ind. Br. Boston)—Parish—Christ Episcopal Church, H. K. Bartow, pastor, taking bids 2 story and basement, 40 x 140 ft., granite and terra cotta, Quincy Ave. and Elm St. $150,000. G. W. Chickering, 6 Beacon St., Boston, archt. Noted Nov. 20.

Mass., Rockland—School—School Com., A. Toothaker, supt. schools, taking bids 2 story and basement, rein.-con., brick and stone school. $150,000. Brainard & Leeds, 89 Franklin St., Boston, archts. Noted Oct. 23.

Mass., Worcester—School—Superintendent Public Buildings, taking bids 2 story and basement, 60 x 110 ft., brick and stone, Crawford St. and Bonst Aves. $150,000. J. Rustigian, 405 Main St., archt. Noted Sept. 18.

R. I., Fairmount—School and Church—Sacred Heart Parish, 2nd Ave., taking bids brick and steel, Old St. $400,000. Ambrose, Jerome, Murphy, Weybossett St., Providence, archts.

R. I., Pawtucket—Apartment—A. M. Carty, c/o O'Malley & Fitzsimmons, archts., Tanning Bldg., Providence, taking bids 3 story and basement, 105 x 115 ft., brick and stone, Bway., here. $200,000.

R. I., Providence—School—Jan. 30, by Assumption Parish, Potters Ave., 3 story, 75 x 100 ft., brick, plain foundation, Dexter St. $150,000. O'Malley-Fitzsimmons Co., Fanning Bldg., Pawtucket, archts. Noted Oct. 23.

Conn., Hartford—Church—St. Anthony's Parish, Talcott St., taking bids 1 story and basement, 60 x 120 ft., brick and granite, Talcott St. $350,000. D. A. Guerrierd, 1029 Main St., archts.

Conn., South Manchester—Hotel—J. F. Sheridan, taking bids 4 story and basement, 20 x 166 ft., brick addition, plain foundation, Main St. L. A. Thorp, 18 Church St., archt. and engr.

N. Y., Albany—Apartment—Feb. 5, by U. G. Stockwell, engr. and archt., 175 Jay St., 12 story, 80 x 190 ft., steel and brick, plain foundation, 397 State St., for The Three-hundred and Ninety-Seven State Street Inc. $856,000.

N. Y., Jamaica—High School—Feb. 19, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, high school, here, for Bd. Educ., 500 Park Ave., New York City.

N. Y., New York—Theaters—Bing & Bing, 119 West 40th St., will build 4 brick, steel and stone theaters, plain foundations, 7th Ave., 50th and 51st Sts. $4,000,000. Work will be done by separate contracts. H. C. Severance, 34 West 44th St., archt. T. W. Lamb, 644 8th Ave., associated archt.

N. Y., Ogdensburg—Hospital—Feb. 4, by St. Lawrence State Hospital Comn., constructing hospital.

N. J., Delanco — School — Feb. 9, by Beverly Twp. Bd. Educ., 12 room school, Walnut, Burlington and Chestnut Sts. $150,000. H. O. Ziegler, 17 Washington St., Riverside, engr.

N. J., Freehold—High School—Feb. 4, by Bd. Educ., A. J. Conover, clk., 60 x 145 ft. and 53 x 93 ft. high school, $225,000. F. A. Elsasser, 845 Broad St., Newark, archt. A. Merchant, 1 Elm Row, New Brunswick, engr. Noted Nov. 27.

Va., Charlottesville—Hotel—Feb. 2, by S. S. Johnson & R. O. Brennan, archts., Peoples Bank Bldg., Lynchburg, 9 story and basement, 65 x 100 ft., rein.-con., brick and steel, plain foundation, for Jackson Park Hotel Co., c/o architects. $500,000. Van Rensselaer Saxe, Knickerbocker Bldg., Baltimore, Md., engr. Noted Nov. 29.

La., New Orleans—Garage—Feb. 2, by Favrot & Livaudais, archts., Hibernia Bank Bldg., 5 story, rein.-con. garage, Gravier and Poydras Sts., for C. S. Williams.

O., Cleveland—Apartment—L. Rosenthal, 13669 Euclid Ave., taking bids 3 story and basement, 51 x 165 ft., brick and timber, 13671 Euclid Ave. $175,000. M. Weiss, 616 Union Bldg., archt.

O., Cleveland—Theatre—L. Abrams, Engineers Bldg., taking bids 1 story, 1,000 seating capacity, brick, steel and concrete, East 124th St. and Superior Ave. $250,000. J. F. Steffens, Fidelity Mortgage Bldg., archt.

Mich., Detroit — Theatre — Feb. 7, by Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., 2 story and part basement, 60 x 150 ft., rein.-con., brick and tile, plain foundation, Jefferson Ave., for Players Holding Co., c/o architects. $150,000.

Neb., Kearney—School—Feb. 10, by G. E. Haase, secy. Bd. Educ., Junior High School, 2 story and basement, 120 x 250 ft., brick and concrete. $200,000. Davis & Wilson, 525 South 13th St., Lincoln, archts. Noted Oct. 2.

Mo., Carthage—College—Ozark Wesleyan College, taking bids 3 story and basement, 55 x 256 ft., limestone, bedford stone, concrete and brick, $300,000. Bonsack & Pearce, 306 Republic Bldg., St. Louis, archts. P. K. Simpson, 404 First Natl. Bldg., Carthage, associated archt.

Calif., Huntington Park — Theatre and Apartment—West Coast Theatres Co., 643 South Olive St., Los Angeles, taking bids 2 story and basement, 114 x 150 ft., rein.-con. and timber, South Pacific Blvd. $150,000. A. G. Lindley, 800 Amer. Bank Bldg., Los Angeles, archt. Noted Dec. 25.

Calif., Lomita—High School—Feb. 6, by Los Angeles City Bd. Educ., 3 story, 70 x 257 ft. administration and classroom building, 1 story, 32 x 84 ft. manual arts building 32 x 84 ft. domestic science building, 70 x 120 ft. auditorium, and two 1 story locker and shower rooms, etc., all brick, Pomelo St., here. $350,000. A. C. Martin, Higgins Bldg., Los Angeles, archt. Noted Dec. 25.

Calif., Los Angeles—Dormitory—Wollett & Eager, archts., Pacific Mutual Bldg., taking bids 3 story and basement, 90 x 120 ft., brick and concrete, 36th St., for University of Southern California. Noted Nov. 13.

Calif., Los Angeles—Store and Office—Los Angeles Investment Co., taking bids 12 story and basement, 85 x 135 ft., terra cotta, pressed brick, marble and tile, Bway. near 10th St. $600,000. Walker & Eisen, 701 Great Republic Life Bldg., archts. Noted Dec. 4.

Calif., Pacific Grove—Theatre and Store—M. Jorgensen, archt., 110 Sutter St., San Francisco, taking bids 1 story, brick and timber theatre and store building, here, for Monterey Theatres Co., Monterey. $150,000.

Calif., San Fernando—School—Feb. 4, by Los Angeles Bd. Educ., 1 and 2 story, 110 room, brick and rein.-con. school, here. Krempel & Erkes, Bradbury Bldg., Los Angeles, archts.

Calif., San Francisco—Theatre, Office and Store—M. Jorgensen, archt., 110 Sutter St., taking bids Class A theatre, office and store building, Irving St., for Golden Gate Theatre Co., c/o architect. $150,000. Noted May 1.

BIDS RECEIVED

Mass., West Roxbury (Boston P. O.)—School—Schoolhouse Dept., Boston, 2 and 3 story and basement, 40 x 170 ft., and 80 x 110 ft., brick and stone addition to Washington Irving Intermediate School, plain foundation, Charles Sumner Dist., here, from Alco Constr. Co., Inc., 43 Tremont St., Boston, $470,000. Noted Jan. 8.

Md., Baltimore—School—Bd. Awards, 3 story and basement, 120 x 215 ft., brick and steel, plain foundation, Roland and Linwood Aves., from P. C. Streett Eng. Co., 406 St. Paul St., $311,800; heating and ventilating, from Enterprise Steam & Hot Water Heat Co., 619 West Franklin St., $58,985. Noted Jan. 8.

N. Y., Brooklyn—School—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Jan. 21, addition to P. S. 35, Decatur St. and Lewis Ave., for Bd. Educ., 500 Park Ave., New York City, from Blumar Constr. Co., 25 West 43rd St., New York City, $221,599; heating and ventilating apparatus, from H. Starkman & Bros., 1482 2nd Ave., New York City, $38,200. Noted Jan. 8.

CONTRACTS AWARDED

Mass., Beverly — Store, Hall, etc. — Owner, c/o A. J. Carpenter, Jr., archt., 1 Moss Hill Rd., Jamaica Plain, 2 story and basement, 55 x 150 ft., brick, Washington and Cabot Sts., to Rand Constr. Co., 10 Tremont St., Boston. Archts. est. $150,000 or more. Noted Jan. 8.

Mass., Boston — Garage — State St. Garage, Inc., c/o S. S. Eisenberg, 46 Cornhill St., 6 story, 80 x 100 ft., rein.-con., brick and steel, plain foundation, 200 Cambridge St., to N. Hurwitz, 294 Washington St. Archts. est. $250,000. Noted Jan. 22.

Mass., Boston—Office—C. K. Cummings & H. H. Kimball, trustees, 8 Beacon St., 6 story and basement, 10,000 sq.ft. floor space, rein.-con., brick and steel, Franklin, Battery March and Wendall Sts., to Joslin & Landry, 107 Massachusetts Ave. Archts. est. to exceed $150,000. Noted Jan. 15.

Mass., Boston — Store and Office — First Natl. Bank of Boston, Milk St., reconstructing 4 story and basement, brick, granite and limestone bank building into store and office building, 64 Federal St., to E. A. Abbott Co., 3 Park St. Archts. est. $150,000 or more.

Mass., Quincy (Boston P. O.) — Warehouse—H. L. Kincaide & Co., 1495 Hancock St., Boston, 2 story, 100 x 128 ft., brick and steel, Hancock St., to Wilson & Tomlinson, 79 Milk St., Boston. Archts. est. $150,000.

Mass., Worcester—Store and Apartment—J. Fanelli, 1 Lyons St., will build 3 story and basement, 60 x 100 ft., and 50 x 60 ft., brick, plain foundation, Shewsbury St., by day labor. $150,000. H. L. Meacham, 571 Main St., archt. Noted Oct. 23.

R. I., Pawtucket—Office—W. I. Sundlun, Industrial Trust Bldg., 4 story, 42x98 ft., brick and steel, Main St., to E. Turgeon, 86 Weybosset St., Providence, Archts. est. $150,000.

Conn., Bridgeport — Temple — Loyalty I. O. O. F., c/o H. E. Koerner, archts., 164 State St., 4 story and basement, 78 x 95 ft., rein.-con. and steel, plain foundation, State St., to T. J. Pardy Constr. Co., 1481 Seaview Ave. Archts. est. $250,000. Noted July 24.

Conn., Wallingford—Dormitory—Gaylord Farm Sanatorium, 2 story, 32 x 400 ft., brick, tile and stucco, Gaylor Farm, to Loucks & Clark Co., Wallingford, $100,000. Noted Oct. 9.

N. Y., Brooklyn — Apartments — Regent Kenmore Corp., c/o Shampan & Shampan, archts. and engrs., 189 Montague St., will build two 5 story, brick, steel and stone, plain foundation, on 104 x 206 ft. plot, East 21st St. and Regent Pl., by day labor. $200,000 each.

N. Y., Brooklyn—School—Our Lady of Loretto, 194 Sackman St., 4 story, 90 x 100 ft., brick, steel and stone, plain foundation, Pacific St., to Shields & Marty, 23 East 26th St., New York. Archts. est. $200,000. Noted Sept. 25.

N. Y., New York—Apartment—F. and H. Building Co., 25 West 45th St., 15 story, brick, stone and steel, plain foundation, 76th St. and Amsterdam Ave., to Frymier & Hanna Co., 25 West 45th St.

N. Y., New York—Apartment—L. Steckler, 110 William St., 7 story, brick, stone and steel, plain foundation, 20 East 67th St., to G. Richard Davis, 30 East 42d St. Archts. est. $250,000.

N. Y., New York—Hospital—Beekman St. Hospital, 117 Beekman St., 7 story, brick, steel and stone, plain foundation, 109 Beekman St., to Northeastern Constr. Co., 101 Park Ave. Noted Jan. 15.

N. Y., New York—Hotel—New York Central R.R. Co., 466 Lexington Ave., 14 story, brick, steel and stone, plain foundation, 48th St. and Lexington Ave., to Todd, Robertson, Todd Eng. Corp., 347 Madison Ave. Archts. est. $10,000,000.

N. J., Atlantic City—Assembly Hall—Carrere & Hastings, archts., 52 Vanderbilt Ave., New York City, 2 story and basement, 72 x 149 ft., brick and steel, plain foundation, here, to F. V. Warren Co., 1913

Unclassified (Continued)

Subway—Bedford, O.—Wheeling & Lake Erie R.R., 629 Huron Rd. N. E., Cleveland, takes bids in spring for subway across Washington St., here, for City of Bedford and Railroad. W. R. Rohback, 640 Huron Rd., Cleveland, ch. engr.

Gas Mains — Lake Geneva, Wis. — See "Buildings—Industrial."

Park—Excelsior, Minn.—Pearce Co., F. W. Pearce, pres., 7237 East Jefferson St., Detroit, making plans amusement park, here. $150,000. Private plans.

Subway — Amarillo, Tex. — City and Atchison, Topeka & Santa Fe Ry. Co., Railway Exch. Bldg., Chicago, take bids after Feb. 10, 710 ft. rein.-con. subway, 48 ft. wide, 16 ft. deep. $58,000. C. F. W. Felt, ch. engr. of railroad.

Wharf, etc. — Beaumont, Tex. — See "Buildings—Industrial."

Light System—Claude, Tex.—G. D. Caldwell, city secy., soon takes bids improving light system. $35,000. Gantt-Baker & Co., 1116 Main St., Oklahoma City, Okla., engrs.

Gas Mains, etc.—San Antonio, Tex.—San Antonio Public Service Co., E. H. Kifer, vice pres. and genl. mgr., making plans new 6- to 24-in. gas mains and laterals. $335,000. Private plans.

Power Lines, etc.—San Antonio, Tex.—San Antonio Public Serv. Co., E. H. Kifer, vice pres. and genl. mgr., plans extending pole power lines and underground power circuits. $400,000. Private plans.

Transmission Line — Oklahoma — Inland Utilities Co., Hobart, plans electric transmission line from Hobart to Sentinel and Rocky. $30,000 bonds sold. H. W. Martin, Hobart, engr.

Transmission Line — Oklahoma — Southwest Light & Power Co., Lawton, making preliminary plans electric transmission line from Frederick to Grandfield. $30,000. E. Ernsberger, Continental Bldg., Oklahoma City, engr.

Electric Lines, etc.—Seattle, Wash.—City Council passed ordinance providing issuance $15,000,000 in light bonds of which $7,000,000 will be expended for extending electric lines, purchase 5 substations and equipment for lighting plant, remaining $8,000,000 to be used in further development Skagit project at Ruby Creek, incl. masonry dam, also railroad from Ruby to Gorges Creek, etc. J. D. Blackwell, city engr.

Subway—Berkeley, Calif.—City, Alameda Co. and Southern Pacific R.R. Co., 65 Market St., San Francisco, plan subway through Shattuck Ave. business district. $985,000.

Subway—Palo Alto, Calif.—Plans subway, 17 ft. high with 40 ft. roadway and two 5 ft. sidewalks, at Embarcadero Rd. near High St. $140,000. Southern Pacific R.R. Co., 65 Market St., San Francisco, to appropriate toward cost. J. F. Bxybee, Jr., city engr.

Stadium — San Francisco, Calif. — San Francisco Baseball Club, 15th and Valencia Sts., purchased site and plans rein.-con. and steel stadium, 16th and Bryant Sts. $1,000,000, grading in connection with above will be approximately $300,000.

Parks and Playgrounds — South San Francisco, Calif.—Plans to purchase and improve 22 acres for parks and playgrounds.

BIDS DESIRED

Refrigeration Work—Auburn, N. Y.—Feb. 24, by J. L. Long, supt. State Prisons, Capitol, Albany, refrigeration work, refrigerating plant, cold storage rooms, etc., at Auburn Prison, here; adv. E. N.-R. Jan. 29.

Landing Platform—New York, N. Y.—Feb. 5, by M. Cosgrove, comr. Docks, Pier A, foot Battery Pl., extending landing platform and berth for baths, at Battery, Contr. 1846.

Subway, etc.—New York, N. Y.—Feb. 6, by Bd. Transportation, 49 Lafayette St., constructing Sect. 6B, Route 78, also special work on Bway.-4th Ave. extension. J. H. Delaney, chn.

Steel—New Orleans, La.—Feb. 5, by Bd. Port Comrs., Suite 200, New Court House Bldg., furnishing, erecting and painting 475 tons structural steel for Julia St. shed extension.

Culverts—Georgia—Feb. 6, by State Hy. Dept., East Point, culverts on La Grange-Franklin Rd., Troup Co., 537 cu.yd. concrete, 47,300 lb. reinforcing. W. R. Neel, highway engr.

Wharf, etc. — Houston, Tex. — Navigation Dist., Courthouse, c/o H. L. Washburn, aud., taking bids wharf, and 1 story, 150 x 400 ft., rein.-con. and brick warehouse, plain foundation, Manchester Dist. $200,000. J. A. Schiller, Court House, engr.

BIDS RECEIVED

Heating and Ventilating Apparatus—Brooklyn, N. Y.—See "Buildings—Commercial."

Subway—New York, N. Y.—Bd. Transportation, Municipal Bldg., Jan. 26, Sect. 3, Route 78, along and under 8th and St. Nicholas Aves. from West 112th to 122nd Sts., Manhattan Boro, from Heyman & Goodman, 140 Wadsworth Ave., $4,857,000. Noted Jan. 1.

Heating and Ventilating—Baltimore, Md.—See "Buildings—Commercial."

CONTRACTS AWARDED

Land Development—Newton, Mass.—H. J. O'Meara, 78 Beacon St., Chester Hill, will develop about 40 acres land known as Towle Estate, for building purposes, incl. streets, sewers, curbing, etc., by day labor. Private plans.

Station Finish, etc.—New York, N. Y.—Bd. Transportation, 49 Lafayette St., station finish work for part of Rapid Transit R.R., to Charles Meads & Co., 217 West 14th St., $96,449; also removal of elevated railroad columns at Bway. and Spuyten Duyvil Parkway, Bronx Boro., to Buckingham Steel Co., Inc., 5718 2nd Ave., Brooklyn, $1,255. Noted Jan. 22.

Sanitary Work—Poughkeepsie, N. Y.—State Hospital Comn., Capitol, Albany, sanitary work, electric and additions to water supply, etc., at Hudson River State Hospital, here, to T. E. O'Brien, Inc., 6311 5th Ave., Brooklyn, $13,325. Noted Dec. 18.

Coal Equipment—Detroit, Mich.—Pub. Lighting Comn., East Atwater St., coal equipment for new power plant, to Combustion Eng. Corp., 11 Bway., New York City, $327,861.

Wharf—Galveston, Tex.—See "Streets and Roads."

Cluster Lights—Seattle, Wash.—Cluster lighting system on East and North 45th Sts., to Ne Page McKenny Co., Armour Bldg., $25,938. Noted Jan. 22.

Ornamental Street Lighting System—Los Angeles, Calif.—To J. C. Perry, Detwiler Bldg., ornamental street lighting system on 6th St. between Vermont Ave. and Gramarcy St., $40,940; to G. W. Kemper, P. O. Box 126, Alhambra, 3rd St. between Muirfield Rd. and La Brea Ave., $26,900; to S. N. Prescott, 1030 Wilshire Blvd., Santa Monica, Beverly Blvd. between Vermont and Western Aves., $39,548, Anaheim St. between End St. and McFarland Ave. $16,833, and 16th St. between Hoover and Berendo Sts. $20,178. Noted Jan. 22.

Ornamental Street Lighting System—Los Angeles, Calif.—Supervs. Los Angeles Co., 93 pressed steel posts, cables, conduits, etc., on Whittier Blvd. between Indiana St. and Pasadena Ave., to G. W. Kemper, P. O. Box 126, Alhambra, $39,400. Noted Jan. 22.

Grain Elevator — Halifax, N. S. — Dept. Trades & Commerce, Ottawa, Ont., grain elevator, here, to E. G. Cape & Co., Ltd., New Birks Bldg., Montreal Que., $600,000. Noted Nov. 20.

Material and Equipment

PROPOSED WORK

Asphalt Sand—Brooklyn, N. Y.—J. A. Guider, boro pres., Boro Hall, rejected bids Jan. 14, 10,000 cu.yd. asphalt sand. Noted Jan. 8.

Dryer, etc.—Cleveland, O.—City, c/o A. K. Hoare, comr. Purchases & Supplies, City Hall, plans to purchase dryer and driving machinery for asphalt plant.

Tractor and Snow Plow—Appleton, Wis.—E. L. Williams, city clk., rejected bids Jan. 5, two 25 hp. caterpillar tractors, three 1 ton trucks with dump bodies, and 1 motor driven ½ yd. grading shovel, etc. Noted Jan. 1. Will readvertise.

Trucks, etc.—Milwaukee, Wis.—Central Bd. Purchases soon takes bids 10 tractor trucks, 1 crawler tractor, 1 snow loader, also 40 trailers for garbage and ash collection, for Bd. Pub. Wks. $84,000.

Road Oil — Watertown, Wis. — F. S. Weber, city clk., soon takes bids 120,000 gal. road oil.

Crane — Inspiration, Ariz. — Purchasing Dept. Anaconda Copper Co., 25 Bway., New York City, N. Y., soon takes bids for traveling crane with 15 ton clam shell bucket, span center to center of rails 212 ft., here, for Inspiration Consolidated Copper Co. $100,000. G. H. Booth, Inspiration, engr.

Lighting Equipment — Seattle, Wash. — See "Unclassified."

Compressor, Tractor, etc. — Berkeley, Calif.—Plans to purchase 1 air compressor, pavement breaking tools and tractor for power unit. E. M. Hann, city clk.

BIDS DESIRED

Sewer Cleaner—Altoona, Pa.—B. Keatley, city comr., City Hall, taking bids turbine sewer cleaner. $1,580. F. A. Baum, Altoona, engr.

Conduit, etc. — Baltimore, Md. — Feb. 4, by Bd. Awards, 150,000 ft. 3 in. and 10,000 ft. 2 in. fibre conduit, 100,000 ft. four-way vitr. clay and 200,000 ft. six-way vitr. clay conduit, 300 two in. and 1,000 three in. bends. C. Goob, ch. engr. Electrical Comn., 311 Courtland St.

Pipe—Baltimore, Md. — Feb. 4, by Bd. Awards, vitr. terra cotta pipe, to Highway Engineers Dept., Contr. 49. B. L. Crozier, City Hall, engr.

Pipe Line—Mobile, Ala.—Feb. 9, by Alabama State Docks Comn., 2nd floor State Office Bldg., 1,200 ft. floating pipe line for use with dredge. W. S. Sibert, chn.

Road Oil, etc.—Memphis, Tenn.—Feb. 9, by Comrs. Shelby Co., Court House, road oil, crushed limestone, gravel, sand, cement, steel, creosoted bridge lumber, piling, pine, oak lumber, culvert pipe, bituminous materials, and natural rock asphalt. E. W. Hale, chn.

Trucks, Rollers, etc.—Memphis, Tenn.—Feb. 9, by Comrs. Shelby Co., seven or more 3½ to 5 ton trucks, less trade-in value or seven or more 3½ to 5 ton trucks now owned by county; three 10 ton gas driven road rollers with scarifier attachment, less trade-in value of three 10 ton steam rollers owned by county, one or more road machines with 8 and 12 ft. blade, complete. E. W. Hale, chn.

Markers and Posts—Madison, Wis.—Feb. 6, by State Hy. Comn., 149 East Wilson St., 10,000 to 15,000 metal highway markers and 10,000 to 15,000 channel iron posts. J. T. Donagghey, state highway engr.

Street Sprinklers, etc.—Racine, Wis.—Feb. 7, by Bd. Pub. Wks., two 500 gal. motor driven street sprinklers, 1 power street sweeper, and 4 dump wagons. J. W. Beaugrand, city engr. Noted Aug. 28.

Truck—Neenah, Wis.—H. S. Zemlock, city clk., taking bids motor truck of several ton capacity for Street Dept.

Portland Cement and Timber—Waukon, Ia.—Feb. 4, by C. A. Palmer, aud. Allamakee Co., 1,000 bbl. Portland cement, and 100,000 ft. bridge timber. H. Orr, Waukon, co. engr.

Trucks—Minneapolis, Minn.—Feb. 4, by F. S. Gram, city purch. agt., one 1½ and one 2½ ton trucks.

Creosoted Wood Block, etc. — St. Paul, Minn.—Feb. 3, by H. W. Austin, city purch. agt., 1,200 sq.yd. 3½ in. creosoted wood block, 1,400 sq.yd. sandstone blocks for street repairs, also one thousand five hundred 18-in. and five thousand 24-in. square cement sidewalk tile.

Pipe—Nelson, B. C.—Feb. 9, by W. E. Wasson, city clk., 650 tons 8- to 12-in. c.i. water pipe.

BIDS RECEIVED

Cement, Gravel, etc.—Brooklyn, N. Y.—J. A. Guider, boro pres., Boro Hall, Jan. 21, 8,000 bbl. Portland cement, from M. M. Canda, 184 3rd St., $21,960; 4,000 cu.yd. gravel or broken stone, and 2,000 cu.yd. sand grit, from B. Turecamo Contg. Co., 8706 Bay 12th St., $9,400 and $4,080 respectively; 2,000 cu.yd. broken stone, from M. F. Hickey Co., Inc., 83 9th St., $9,590; 5,000 cu.yd. paving and concrete sand from Hygrade Builders Supply Co., 6th St. and 2nd Ave., $6,200; 80,000 gal. asphaltic macadam binder, from Standard Oil Co., 26 Bway., New York City, $12,000; 500,000 gal. asphalt road oil, from Texas Co., 17 Battery Pl., New York City, $31,180; 400,000 gal. asphaltic cement, from Warner-Quinlan Co., 79 Wall St., New York City, $26,280; 2,000 net tons limestone, from New York Trap Rock Co., 101 Park Ave., New York City, $13,940; 300 tons paving pitch, from Barrett Co., 17 Battery Pl., New York City, $7,650; 4,000 cu.yd. binder stone, from Calvin Tompkins Co., 30 Church St., New York City, $9,220. Noted Jan. 15.

CONTRACTS AWARDED

Steam Cinders—Brooklyn, N. Y.—J. A. Guider, boro pres., Boro Hall, 10,000 cu.yd. steam cinders, to Hygrade Builders Supply Co., 6th St. and 2nd Ave. $10,200. Noted Jan. 8.

Cement, Trucks, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., 20,000 bbl. Portland cement, to Anderson Brick & Supply Co., 201 East 129th St., $13,750; 6 motor trucks, to International Harvester Co., Grand Central Palace, $27,270; 3 portable air compressors, to C. Hvass & Co., 508 East 9th St., $5,397; 3 tandem steam rollers, to Buffalo Springfield Roller Co., 150 Nassau St., $8,235; 14 steel dumping bodies, to Van Dorn Iron Wks., 313 Bway., $3,860. Noted Jan. 22.

Piles — New Orleans, La. — Bd. Port Comrs., New Court House Bldg., two hundred and ten 85 ft. creosoted piles, to Gulf States Creosoting Co., Hattiesburg, Miss., $0.527 per lin. ft.

Turbine Unit—Stillwater, Okla.—G. E. Watkins, city clk., new steam turbine unit, and condenser to Westinghouse Electric & Mfg. Co., Chamber Commerce Bldg., Pittsburgh, Pa., $21,500. Engrs. est. $25,000. Noted Jan. 8.

Buildings—Commercial (Continued)

Arch St., Phila., Pa., for Hotel Chelsea. Archts. est. $150,000.

N. J., Newark—Apartment—H. R. Van Duyne, c/o Shape, Bready & Peterson, archts. and engrs., 50 East 42nd St., New York City, 8 story apartment, Mt. Prospect Ave., here, to E. Brown, Inc., 70 East 42nd St., New York City. Archts. est. $700,000.

Pa., Dormont—School—Bd. Educ., general contract 1 story and basement, 56 x 200 ft. school, to J. G. Fullman Co., E. E. Savings & Trust Bldg., Pittsburgh, $132,-714. Noted Jan. 22.

Pa., Pittsburgh — Noviate — Lithuanian Sisters of St. Francis, 408 Taber St., 3½ story and basement, 43 x 128 ft. noviate, Hamilton Ave. and McRoberts Rd., to Duquesne Constr. Co., Cypress and Aspen Sts. Archts. est. $150,000.

Pa., Reading—Museum and Art Gallery—School Dist., general contract 2 story and basement, 62 x 300 ft., brick and steel, plain foundation, West Side Rd. and Parkside Dr., to J. F. Impink & Sons, 16 North 8th St., $330,500. Noted Jan. 15.

N. C., Charlotte — Church — Prichard Memorial Baptist Church, new church, South Boulevard, to J. A. Jones Constr. Co., Realty Bldg., $150,000.

N. C., Charlotte—Sales and Service—A. Kuhn, archt., 1000 Marquette Bldg., Detroit, Mich., general contract 5 story and part basement, 100 x 200 ft., brick and rein.-con., plain foundation here, Trade and North Graham Sts., to Realty Constr. Co., Flint, Mich., for C. C. Coddington, Inc., West Trade St. Noted Dec. 25.

S. C., Columbia—Office—M. J. Miller, secy., State Sinking Fund Comn., 5 story, brick, steel and stone, plain foundation, to Fuller Constr. Co., 175 5th Ave., New York City. Archts. est. $750,000. Noted Dec. 4.

Ala., Birmingham — Schools — General contract for Lee, Jackson and Kennedy Schools, to Smith Constr. Co., 30 3rd Ave., $59,967, $59,932 and $58,988 respectively; Barret School, to T. Purvis, Birmingham, $74,750; Norwood School, to D. B. Thomas & Sons, Birmingham, $61,163. Noted Jan. 15.

O., Cleveland — Apartment — A. Kraus, 8902 Kempton Ave., 3 story and basement, 47x150 ft., brick, 2102 Cornell Rd., to Kuskin & Levine, 5809 Outhwaite Ave., Archts. est. $150,000.

O., Cleveland—Commercial—J. W. Wilson, 8314 Euclid Ave., 4 story and basement, 90 x 155 ft., brick, steel and concrete, 5203 Euclid Ave., to Hunting Constr. Co., Discount Bldg., Cleveland. Archts. est. $175,000. Noted Dec. 11.

O., Cleveland—School and Parish—St. Pauls Evangelical Lutheran Church, c/o P. F. Schwan, pastor, East 55th St. and Spencer Ave., 2 story and basement, 65 x 106 ft., brick, steel and concrete, 1454 East 55th St., to J. G. Woide, 1659 East 86th St. Archts. est. $150,000. Noted Oct. 2.

O., Columbus—Store—Smith Bros., Hardware Co., 23 West Chestnut St., 6 story and basement, 140 x 220 ft., rein.-con. and brick, Poplar and 4th Sts., to R. H. Evans & Co., 8 East Long St., about $400,000. Noted Nov. 27, under "Buildings—Industrial."

O., East Cleveland (Cleveland P. O.)—Apartment—L. Rosenthal, 13669 Euclid Ave., Cleveland, 3 story and basement, 51 x 165 ft., brick, 13671 Euclid Ave., to B. Lessowitz, 3449 East 126th St., Cleveland. Archts. est. $150,000.

O., Springfield — Hospital — Bd. Comrs. Clark Co., 3 story and basement, 38 x 190 ft., brick, steel and concrete, to H. R. Blagg Co., 1229 East 3rd St., Dayton. Archts. est. $350,000. Noted Dec. 25.

Ia., Davenport—Apartment—A. Kreoff, 205 West Madison St., Chicago, rein.-con., brick and stone, Central Park Ave., to Melnick Constr. Co., 4831 Talman Ave., Chicago. Archts. est. $400,000.

Mo., St. Louis—Apartment—Ada Building & Investment Co., c/o C. J. Rubin, 808-10 Chestnut St., will build 3 story and basement, 133 x 138 ft., brick and rein.-con., 5364-72 Cabanne St., by day labor. $150,-000. O. J. Popp, 1500 Arcade Bldg., archt.

Tex., Dallas—Hotel—Adolphus Hotel Co., c/o R. B. Ellifritz, Adolphus Hotel, general contract 22 story and basement, 65 x 100 ft., Main St., to Henger & Chambers, Slaughter Bldg., cost plus percentage basis. Archts. est. $1,000,000. Noted Jan. 8.

Tex., Houston — Apartment — Plaza Apartment Hotel Co., c/o W. W. Hoover, secy., Natl. Bond & Mortgage Co. Bldg., 8 story and basement, rein.-con., brick and steel, concrete pile foundation, to Southwest Constr. Co., West Bldg., $1,250,000, cost plus.

Calif., Long Beach—Apartments—P. R. Scott, two 2 story, 50 x 150 ft., brick, Lime St., to G. A. Treikeld, 1256 Cherry St., Long Beach, $153,200.

Calif., Los Angeles — Office — Citizens Mortgage Co., Marsh-Strong Bldg., general contract 13 story and basement, 98 x 110 ft., concrete, pressed brick, terra cotta, and tile, Bway., 11th and 12th Sts., to Vaughn Constr. Co., 1018 Chapman Bldg., $692,250.

Calif., Los Angeles—Store and Office—Goodman-Rosenberg & Co., c/o Walker & Eisen, archts., Great Republic Bldg., 13 story and basement, 50 x 90 ft., rein.-con., 7th and Los Angeles Sts., to Edwards, Wiley & Dixon, Black Bldg., $255,000.

Calif., Los Angeles — Theatre — G. A. Landsburgh, archt., 700 Junior Orpheum Bldg., structural steel contract for 13 story and basement, 138 x 148 ft. steel, rein.-con. and tile, 844-846 South Bway., to Llewellyn Iron Wks., 1200 North Main St., for Broadway Properties, J. Toplitzky, agt., 205 H. W. Hellman Bldg. Noted Oct. 2.

Calif., San Francisco—Loft—Zellerbach Paper Co., Clay and Sansome Sts., 6 story and basement, rein.-con., Clay and Sansome Sts., to Barrett & Hilp, 918 Harrison St., to exceed $150,000. Noted Dec. 4.

Calif., Santa Monica — Amusement and Store—G. M. Jones, concrete for 1 story, 225 x 260 ft., rein.-con. amusement and store buildings, to J. L. Bristow, 1915 Wilshire Blvd., approximately $35,000; and approximately 360 tons steel, to Baker Iron Wks., 912 North Bway St., Los Angeles.

Federal Government Work

PROPOSED WORK

Mass., Amherst—Post Office—U. S. Engineer, Treas. Dept., Wash., D. C., making plans 1 story and basement, 70 x 75 ft., brick and stone post office, here.

Calif., Mare Island—Alterations—Spec. 5034—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids alterations to Building M-34, marine barracks, here. Noted Jan. 15.

BIDS DESIRED

Mass., Newburyport—Stone—Jan. 30, by U. S. Engineer, 1703 Custom House, Boston, placing stone in Newburyport jetty, here.

Pa., Phila.—Pipe Line—Mar. 6, at U. S. Engineers Office, War Dept., Wash., D. C., 20 in. pipe line, here.

D. C., Wash.—Iron, Steel, etc.—Feb. 7, at office A. L. Flint, genl. purchasing officer of Panama Canal, Wash., D. C., furnishing iron, steel, brass, bronze, brass tubing, electric hoists, motor driven trolleys, etc.

Ala., Florence—Roofings—Feb. 20, by U. S. Engineers Office, furnishing materials and laying built-up bituminous roofing for power house of Wilson Dam, Tennessee River; adv. E. N.-R. Jan. 29.

Miss., Gulf—Electric Wiring—Feb. 17, by Treasury Dept., Supervising Archts. Office, Wash., D. C., electric wiring, materials, lumber, etc., all carrier charges paid on wharf, here.

Miss., Vicksburg—Towboat—Feb. 27, by Third Mississippi River Dist., P. O. Box 404, furnishing 1 stern wheel steel-hull towboat; adv. E. N.-R. Jan. 29.

Tenn., Memphis—Service Building—Feb. 24, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., constructing service building at U. S. Veterans Hospital 88, here; adv. E. N.-R. Jan. 29.

Mich., Detroit—Air Compressors—Feb. 2, by Superintendent Lighthouses, Room 900 Lawyers Bldg., 2 oil driven air compressors.

Ill., Bloomington — Extension — Feb. 20, by Treas. Dept. at office Supervising Archt., Wash., D. C., extension Post Office, here; adv. E. N.-R. Jan. 29.

BIDS RECEIVED

Mass., Gloucester — Post Office — Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling post office and court house, here, from E. Zimmerli, Woodbury, N. J., $18,400. Noted Jan. 8.

N. Y., New York—Dredging—Spec. 5060 Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging in navy yard, here, from Morris & Cumings Dredging Co., 15 Moore St., $56,465.

Ga., Fort Benning—Barracks—Constructing Quartermaster, War Dept., Wash., D. C., 1st section regimental barracks, here, from A. Blair, 11 South Lawrence St., Montgomery, Ala., $317,425. Noted Jan. 1.

Ill., Colconda—Lock—U. S. Engineer Office, P. O. Box 72, Louisville, Ky., constructing Lock 51, here, from U. G. I. Constr. Co., 1401 Arch St., Phila., Pa., $1,-295,311. Noted Dec. 4.

Wash., Puget Sound—Boiler Plant—Spec. 5041—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to boiler plant and distribution system, here, from Newport Contg. & Eng. Co., Newport News, Va., (1) $98,847 (2) $9,000 (3) $8,000 (4) $1,300 (5) $350. Noted Jan. 1.

CONTRACTS AWARDED

Vt., Burlington — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling Post Office and Custom House, here, to W. L. Morrison Constr. Co., 613 15th St. N. W., Wash., D. C. Noted Dec. 18.

N. Y., Brooklyn—Incinerator—Spec. 5062—Bureau Yards & Docks, Navy Dept., Wash., D. C., incinerator plant and chimney at Naval Hospital, here, to Dooley Stapleton Corp., 257 Adelfiin St., Brooklyn, $35,946. Noted Jan. 22.

N. Y., New York—Dredging—Spec. 5060—Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at Navy Yard, here, to Morris & Cumings Dredging Co., 15 Moore St., (Item 2) $0.244 per cu.yd., total $56,465. Noted Jan. 22.

Pa., Pittsburgh—Barges—U. S. Engineers Office, three steel deck barges, to American Bridge Co., Frick Bldg., $48,360. Noted Dec. 18.

D. C., Wash.—Additions—Dept. Interior, general contract armory and gymnasium, etc., at Howard University, to Schneider-Spliedt Co., 1416 F St. N. W., $149,900. Noted Sept. 13.

Va., Hampton Roads—Seaplane Runway—Spec. 5029—Bureau Yards & Docks, Navy Dept., Wash., D. C., seaplane runway, here, to Carpenter & Petrie, Inc., 518 Citizens Bank Bldg., Norfolk, $47,627. Noted Jan. 15.

Va., Norfolk—Alterations—Spec. 5061—Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to cafeteria in hospital, to J. Tevss, 116 West 20th St., $1,075. Noted Jan. 22.

Ala., Florence—Counterweights—U. S. Engineers Office, displacement counterweights at Wilson Dam, to Walsh & Weidner Boiler Co., Main and Scymr Sts., Chattanooga, Tenn., $56,794. Noted Jan. 8.

Idaho, American Falls — Dam — Dept. Interior, office of Bureau Reclamation, Wash., D. C., dam, here, to Utah Constr. Co., Ogden, Utah, $1,281,000. Noted Dec. 18.

Ore., Portland—Barge—U. S. Engineers Office, War Dept., Wash., D. C., steel oil barge, here, to Albina Marine Iron Wks., Inc., Lewis and Loring Sts., Portland, $12,-498. Noted Jan. 1.

Unclassified

PROPOSED WORK

Athletic Fields, etc.—Cambridge (Boston P. O.), **Mass.**—City Council plans reconstructing and resurfacing Cambridge and Thorndike athletic and recreation fields. $25,000. Engineer not selected.

Base Ball Cage—Cambridge (Boston P. O.), **Mass.**—Harvard Athletic Assn., having plans prepared by G. Lowell, 12 West St., Boston, for 1 story baseball cage. To exceed $25,000.

Land Development — Melrose, Mass. — W. H. Derby, Lynde Farms, plans developing Lynde Farms for building purposes, incl. grading, laying out and construction streets, etc. To exceed $25,000. Whitman & Howard, 220 Devonshire St., Boston, engrs.

Land Development—Somerville, Mass.—F. A. and J. A. Walker, 470 Salem St., Medford, plan developing 50 acres off Middlesex Ave., incl. sewers, watermains and paving, near site of proposed Ford plant. To exceed $25,000. Private plans.

Grain Elevator—Buffalo, N. Y.—Abell Forwarding Co., Inc., Chamber of Commerce Bldg., plans grain elevator, rein.-con., Buffalo River. $2,000,000.

Grain Elevator—Buffalo, N. Y.—Saskatchewan Grain Co., Hurst Bldg., had plans prepared and takes bids in March superstructure for grain elevator storage house, Tift Farm here. R. B. Chandler, c/o owners, engr. $800,000.

Parks, etc.—Miami, Fla.—Election Jan. 29, $400,000 bonds for parks, and $400,000 bonds wharves and docks. H. E. Ross, city clk.

Resort—Gulfport, Miss.—L. M. Russell, et al., making preliminary plans for resort, incl. club house, golf grounds, hotels, etc., on Cat Island off Mississippi Coast. $1,000,000.

Sea Wall—Gulfport, Miss.—Harrison Co. making plans 14.135 mi. sea wall on shores of Mississippi Sound. $2,000,000 bonds sold. H. D. Shaw, City Hall, engr. Noted Jan. 22.

Line Extension, etc. — Tennessee — Cumberland Telephone & Telegraph Co., 186-3rd Ave., Nashville, plans new toll lines, local lines, equipment for small exchanges, switchboards, reconstructing present lines, etc., in state $3,108,000.

Grain Elevator — Clarksville, Tenn. — Dixie Mills Co. plans 30,000 bu. grain elevator, rein.-con. To exceed $25,000. J. H. Winters, Clarksville, pres.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: Feb. 9.

Bridge Repairs

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION

Trenton, N. J.

Notice is hereby given that sealed bids will be received by the State Highway Commission of New Jersey for the following:

Repair and reconstruction of center timber fender, 200 ft. long, 40 ft. wide; and north end of east timber fender, 92 ft. long, 10 ft. wide; including removal of timber and piling, driving of piling and removal of existing masonry pier of the bridge over Hackensack River, M. P. 57.8, State Highway Route No. 1, Lincoln Highway, in the County of Hudson, State of New Jersey.

Bids will be received at the office of the State Highway Commission, 9th floor, Broad Street Bank Building, Trenton, New Jersey, on Monday, February 9th, 1925, at twelve o'clock noon, standard time, and opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on a deposit of Ten Dollars ($10.00) upon application to the State Highway Department, 9th floor, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated in the specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of bidder and name and number of the bridge on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application. Bids not enclosed in special addressed envelopes will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of the said specification, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a Statement of Equipment properly filled.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

Bids: Feb. 10.

POSTPONEMENT OF LETTING

Paving

Quincy, Ill.

Sealed bids will be received until 10 o'clock a.m., February 10, 1925, by the Board of Local Improvements, Quincy, Illinois, for about 68,000 sq.yds. of asphalt paving and about 16,345 sq.yds. of p. c. concrete paving.

Cash or certified check for ten (10) per cent of bid must accompany each bid.

For further particulars, call on or address W. P. BUSHNELL, City Engineer, Quincy, Illinois.

OFFICIAL PROPOSALS

Bids: Feb. 18.

Relief Sewers

Grand Rapids, Mich.

Sealed proposals will be received by the Director of Public Service in the Commission Room, 3rd floor, City Hall, Grand Rapids, Michigan, up to 2 o'clock p.m., Central Standard Time of Wednesday the 18th day of February, 1925, for the construction of the Logan Street Relief Sewer Project—Contract J-2, consisting principally of the following:

3,630 feet of 6′ 9″ by 7′ 0″ semi-elliptical section.
2,200 feet of 6′ 6″ by 6′ 6″ semi-elliptical section.
2,850 feet of 60-inch circular or equivalent.
2,800 feet of 54-inch circular or equivalent.
2,550 feet of 48-inch circular or equivalent.
1,800 feet of 42-inch circular or equivalent, and
1,350 feet of 36-inch circular or equivalent sewer together with the necessary junction chambers, overflow connections and manholes.

All the work will, in general, be carried on in open cut although alternate proposals will be received for about 6,700 feet of the work in tunnel. Construction material for the semi-elliptical sections will be reinforced concrete, Blaw-Knox steel arch forms being furnished by the City for their construction.

Acceptable materials of construction for the balance of the work will be reinforced concrete pipe, monolithic type reinforced concrete vitrified clay and concrete (cup-type) segmental block.

Payment will be made in cash, the proceeds of a general city bond issue, authorized November 6, 1923, funds being provided as required by the sale of these bonds.

Each bidder, in his proposal will name a date on which he will agree to bring all the work included under this Contract to full completion.

Copies of the Plans and Specifications according to which the work is to be done are on file in the office of the Sanitary Engineer, 4th floor, City Hall, and can be obtained for bidding purposes by making a deposit of twenty-five dollars, which amount will be refunded upon the return of the Plans and Specifications on or before March 1, 1925.

A certified check in the sum of Fifteen Thousand Dollars ($15,000.00) will be required with each proposal.

The right is reserved by the City to accept any proposal, to reject any or all proposals, and to waive defects in proposals.

FRED H. LOCKE,
City Manager.

Bids: Feb. 6 and 7.

Highway Work

Harrisburg, Pa.

Pennsylvania Department of Highways, Harrisburg, Pennsylvania. Bids will be received February 6 and 7, 1925, for the construction of twenty-two projects, totaling one hundred thirty miles, construction to be either bituminous surface on a concrete base or reinforced concrete. Projects situated in the following counties:

Bedford, Blair, Carbon, Centre, Clarion, Clearfield, Erie, Fayette, Indiana, Luzerne, McKean, Monroe, Northumberland, Schuylkill, Susquehanna, Warren, Washington, Westmoreland.

Full particulars upon application to W. H. Connell, Engineering Executive and Deputy Secretary of Highways, Harrisburg, Pennsylvania.

OFFICIAL PROPOSALS

Bids: Feb. 3.

Conduit

CONTRACT 218

New York, N. Y.

SEALED BIDS will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chamber Streets, New York City, until 11 A.M., Eastern Standard time, on Tuesday, February 3, 1925, for Contract 218, for the construction of Section 2 of the Williamsburg conduit, a portion of the City conduits of the Catskill aqueduct, extending from a point on Leonard Street in the Borough of Brooklyn, about 115 feet south of Metropolitan Avenue, along Leonard, Calyer and Oakland Streets, under Newtown Creek, and along East, Jackson and Ely Avenues in the Borough of Queens to a point on Ely Avenue about 85 feet beyond Nott Avenue.

The conduit will consist of about 14,360 linear feet of 72-inch steel pipes, about 270 tons of cast-iron pipes and special castings of various sizes, a Venturi meter, valves and other appurtenances, all of which will have to be maintained for one year.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President.
JAMES P. SINNOTT,
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.

BENJ. F. EINBIGLER, Secretary.

Bids: Feb. 16.

Contract 26

STATE OF NEW YORK

BY

WESTCHESTER COUNTY PARK COMMISSION

Bronxville, N. Y.

Sealed bids will be received by the Westchester County Park Commission until 11:00 A.M., February 16th, 1925, at its office No. 72 West Pondfield Road, Bronxville, N. Y., for the Grading and Improving of the State Parkway from the South Side of the Annsville Creek, opposite the State Camp Dock, to the Albany Post Road (Highland Avenue), Peekskill, N. Y., the work covering a distance of 4,600 feet and including necessary retaining walls and drainage system.

Pamphlets containing information for Bidders, Form of Proposal, Specifications and Contract Drawings may be obtained by intending bidders at the above address by depositing $5.00. The right is reserved to reject any or all bids.

WESTCHESTER COUNTY PARK COMMISSION,
By JAY DOWNER,
Chief Engineer.

Dated: Bronxville, N. Y., January 12, 1925.

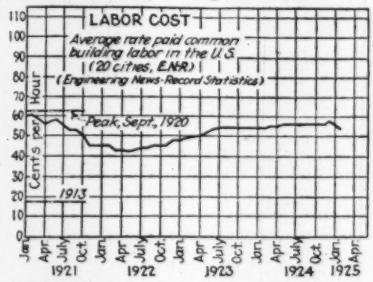
CONSTRUCTION NEWS

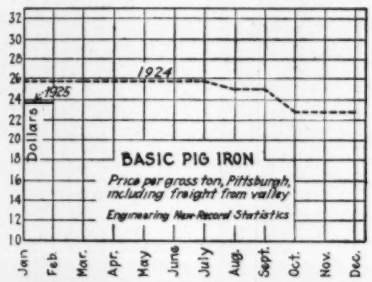
Engineering News-Record, February 5, 1925

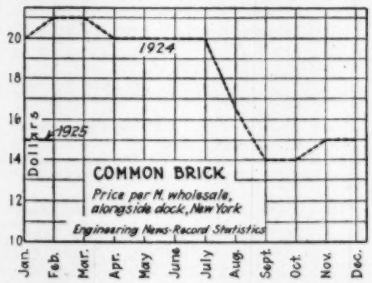
The Construction Barometer

Materials Prices Either Rising or Firm at Present Levels—Few Declines—Common Labor Cheaper—Lettings for Private Projects Have Been Gaining Over Entire U. S. for Past Three Weeks

PRICES of construction materials in the current market are either rising or remaining fairly firm at present levels. This is due mainly to the approach of the spring building season, not six weeks away. Seasonal unemployment, aggravated by severe weather conditions, has made unskilled, unorganized, common laborers more plentiful throughout the northern sections of the country, with a consequent drop in the average common labor rate. Since the week of Jan. 15, consistent gains in contract letting have been noted, as follows: Private projects for the entire United States; industrial and private, commercial buildings in the Middle Atlantic States; industrial buildings and water-works in the West; and Federal Government construction in the South. Judging from proposals recorded up to the week of Jan. 29, inclusive, this trend will continue to be followed.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

Value of Large Contracts Let In The United States

Week Ended	Public Work	Private Work	Total Contracts
Jan. 15	$14,189,000	$20,722,000	$34,911,000
Jan. 22	7,940,000	24,281,000	32,221,000
Jan. 29	9,194,000	85,927,000	95,121,000
3 weeks	$31,323,000	$130,930,000	$162,253,000

Large Building Contracts—Number and Value

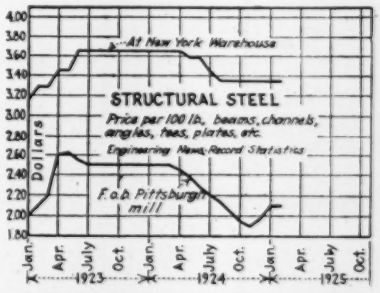
Week Ended	Commercial Public No.	Commercial Public Thousand	Commercial Private No.	Commercial Private Thousand	Industrial No.	Industrial Thousand
Jan. 15	11	$3,149	42	$13,346	15	$2,051
Jan. 22	10	2,656	34	21,930	8	1,071
Jan. 29	5	778	37	24,384	34	61,518
3 weeks	26	$6,583	114	$59,660	57	$64,640

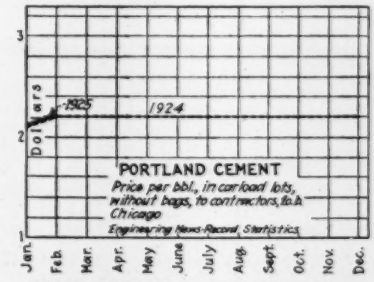
Number Of Large Jobs Now Out For Bids

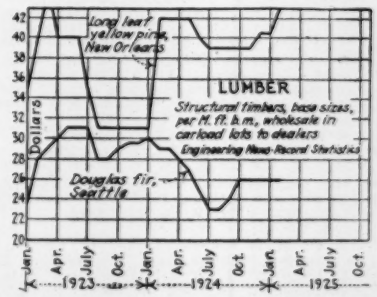
Week Ended	Private	Commercial Buildings	Streets and Roads	Waterworks and Sewers	All Public
Jan. 15	27	37	27	36	140
Jan. 22	22	47	48	25	158
Jan. 29	27	43	31	24	144

Materials Prices Firmer—Common Labor Cheaper

	Quoted on Feb. 5 at	Last Price Change Was	On
Structurals, Pittsburgh, 100 lb.	$2.00 @2.10	$1.85 @2.10	Dec. 4
Cement, Chi., net bbl.	2.20	2.10	Jan. 15
Pine, N. Y., M. ft.	60.00	57.00	Jan. 15
Fir., San Fran., M. ft.	29.00	31.00	Oct. 30
Common labor, hr.	.54	.55½	Jan. 29







Waterworks

PROPOSED WORK

Mass., Bridgewater—City plans to purchase Bridgewater Water Co.'s plant and improve same and water system to properly take care of future fires. $290,000.

Mass., Onset—Plans water system improvements incl. new mains, etc. $150,000 bond issue. Engineer not selected.

N. C., Sanford—Plans enlarging water supply by substituting 24 in. c.i. mains for existing 8 in. mains, etc. To exceed $25,000.

Fla., South Jacksonville (Ind. Br. Jacksonville)—See "Streets and Roads."

Tenn., McKenzie—Plans waterworks improvements, incl. pumps, restoring 2 wells, etc. C. R. Woods, supt. Water & Light Co.

Tenn., Trezevant — Making tentative plans for new waterworks system. $35,000 bond issue contemplated.

Ill., Carthage — Takes bids in March, waterworks, pumping equipment, tank on tower, distribution mains, etc. $150,000. Caldwell Eng. Co., 502 Ayers Bank Bldg., Jacksonville, engrs.

Minn., Fergus Falls—City plans election to vote $20,000 bonds for water main extensions. H. J. Collins, city clk.

S. D., Aberdeen—L. Kohloff, city aud. plans waterworks, $150,000 bonds will be voted.

Mo., Buffalo — Defeated $45,000 bonds waterworks. Noted Jan. 8.

Mo., St. Louis—See "Streets and Roads."

Tex., Brady — Voted $100,000 bonds waterworks extensions, incl. mains and pumps. E. L. Jones, mayor. Engineer not selected. Noted Jan. 29.

Tex., Elgin—Making plans pumping system and extensions. $50,000. Terrell-Bartlett, Calcasieu Bldg., San Antonio, engrs.

Tex., Galveston—Takes bids after Feb. 1, 8 m.g. steel or rein.-con. tank, or four 2 m.g. steel or rein.-con. tanks. $100,000. W. A. Masterson, supt. Waterworks. Noted Jan. 1.

Tex., Hillsboro—Election Feb. 24, $25,000 bonds water and sewer extensions. Address A. M. James, city secy.

Tex., Killeen—Election Feb. 18 to vote $16,000 bonds waterworks improvements. H. N. Law, mayor.

Waterworks (Continued)

Tex., Lamesa — Voted $40,000 bonds, mains and provide pumping equipment. J. Walker, mayor. Engineer not selected. Noted Jan. 8.

Tex., San Saba—See "Sewers."

Okla., Bartlesville—City Commissioners plan to purchase privately owned waterworks and distribution system and if sale is consummated present plant will be rehabilitated, incl. larger distribution mains, 6 m.g. storage reservoir, and new water supply secured from either Butler Creek or Caney River. $750,000. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., consult. engrs. Noted Apr. 3.

Okla., Morrison—Voted $27,000 bonds for new waterworks, incl. 20,900 ft. 2- to 6-in. c.i. pipe, well, pump, tank, valves, hydrants, etc. H. Olmsted, 2230 West 18th St., Oklahoma City, engr. Noted Jan. 22.

Okla., Wewoka—Voted $150,000 bonds for large dam and pipe line. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Jan. 22.

Wash., Shelton—City Council considering plans prepared by Burns-McDonnell-Smith Eng. Co., 45 Marsh-Strong Bldg., Los Angeles, Calif., for waterworks improvements incl. 2,000 ft. wood, 8,500 ft. 8 in. steel pipe line, also 25,000 gal. tank with 1 m.g. reservoir. $64,000.

Wash., Wenas—See "Excavation, Drainage, Irrigation, Levees."

Calif., Huntington Park—Voted $31,000 bonds to purchase present water system (privately owned) and $24,000 bonds to finance 200,000 gal. elevated, steel tank and tower and 100,000 gal. rein.-con. reservoir, centrifugal pump, electric motor and fire hydrants. Noted Dec. 4.

Calif., North Sacramento (Sacramento P. O.)—See "Excavation, Drainage, Irrigation, Levees."

Calif., North Sacramento (Sacramento P. O.)—North Sacramento Light & Water Co., 825 Jay St., Sacramento, making plans furnishing domestic supply, 5,280 ft. 30 in. riveted steel pipe, five 8 in. centrifugal pumps, capacity 4 sec.ft., 80 ft. total, direct connected to 300 hp. electric motors, $25,000 or more. Private plans.

Calif., Wheatland—City plans to purchase emergency pumping plant for waterworks.

BIDS DESIRED

N. Y., Mt. Vernon—Feb. 20, by Bd. Water Supply, 19 Prospect Ave., extending waterworks. N. S. Hill, Jr., 112 East 19th St., New York City, consult. engr.; adv. E. N.-R. Feb. 5.

N. Y., New York—Mar. 16, by J. E. Bowe, comr. Purchase, Municipal Bldg., furnishing, delivering, unloading, stacking and storing c.i. pipe, special and valve box castings, hydrants, etc., to Dept. Water Supply, Gas & Electricity.

N. Y., North Tarrytown—Feb. 20, by Bd. Village Trustees, at office T. A. Quinn, clk., Beekman Ave., constructing water supply system. Wulff Eng. Co., Natl. Bank Bldg., Tarrytown, engrs.; adv. E. N.-R. Feb. 5.

N. Y., Oneida—Feb. 20, by Bd. Water Comrs., furnishing (1) $12,300 tons c.i. pipe and 60 tons c.i. specials, or (2) 6,200 tons c.i. pipe and 40 tons specials; adv. E. N.-R. Feb. 5.

N. J., Sea Girt—Feb. 24, by Boro Council, 150,000 gal. elevated steel water tank. C. A. Bond, Jr., boro clk., adv. E. N.-R. Feb. 5.

Md., Baltimore—Feb. 11, by Bd. Wards, c.i. pipes and fittings, 150,000 lb. lead substitute and 250,000 lb. pig lead. V. B. Siems, City Hall, engr.

N. C., West Jefferson—Feb. 18, by Town Bd. Comrs., 2,700 ft. 2 in., 13,800 ft. 6 in. and 1,400 ft. 8 in. c.i. pipe, five 2 in., twenty-five 6 in. and seven 8 in. gate valves, 36 hydrants, 1,300 c.i. specials, two 150,000 gal. concrete or steel reservoirs. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, engrs.

Ky., Paintsville—Feb. 21, by City Clerk, pumping station, filter plant, motor driven centrifugal pumps, storage reservoir, mains, etc. J. N. Chester Co., Union Bank Bldg., Pittsburgh, Pa., engrs.; adv. E. N.-R. Feb. 5.

Mich., Bay City—Feb. 16, by W. H. Reid, city mgr., completing substructures for filtration plant, etc. Frazier, Ellms, Sheal Co., B. F. Keith Bldg., Cleveland, O., engrs.

Minn., Mankato—Feb. 9, furnishing about 211 tons c.i. pipe and special castings, incl. 110 pieces 8-in. B and S, Class C, c.i. pipe, 760 pieces 6-in., 70 pieces of 6-in. plain end, all 12-in. lengths and 8½ tons special castings. P. F. Comstock, city engr.

Minn., St. Paul—Feb. 10, by H. W. Austin, city purch. agt., 481 pieces c.i. water pipe, also gate valves and service connections boxes. C. M. Shepard, city engr.

Calif., Pismo Beach—Pismo Beach Water Co., taking bids complete water system, 2 wells, pumphouse, 1 motor driven high duty triplex pumping unit, 5,660 ft. 6 in. and 2,280 ft. c.i., w.i. or steel pipe, and one 16,000 gal. steel tank. Black & Veatch, Ferguson Bldg., Los Angeles, engrs.

Ont., Hamilton—A. McFaul, city engr., taking bids equipment for chlorination plant for waterworks.

Ont., St. Catharines—Feb. 17, by G. F. Peterson, chn. Waterworks Comn., 5 m.g. clear water reservoir, and mechanicel gravity filtration plant. $500,000. A. Milne, c/o Water Dept., engr.

BIDS RECEIVED

N. Y., Brooklyn — Bd. Water Supply, Municipal Bldg., New York City, Jan. 27, constructing Sect. 1 Williamsburg Conduit portion of city conduits of Catskill Aqueduct, here, Contr. 219, from Beaver Eng. Co., 57 Chambers St., New York City, $1,010,000. Noted Jan. 15.

Ill., Pinckneyville—Feb. 16, by P. J. C. Ham, city clk., 1,400 g.p.m. centrifugal pump, 500 g.p.m. pump and motor, two 600 g.p.m. pumps and motors and one 500 g.p.m. fire pump and gasoline engine. A. H. Beard, 616 Title Guaranty Bldg., St. Louis, Mo., engr. Noted Oct. 16.

Mich., Detroit—Feb. 16, by Comrs. Purchase & Supplies, Marquette Bldg., 30 disc water meters, 300 six in. standard fire hydrants, 15 four nozzle high pressure fire hydrants.

Kan., Kansas City—Feb. 10, by G. T. Darby, purch. agt., two 4 m.g. capacity motor driven centrifugal pumps for booster service. Noted Sept. 4.

Ark., Altheimer—Feb. 10, by Bd. Impvts. Waterworks Dist. 2, at office of J. Cohn, secy., 8,260 ft. 4 and 6 in. c.i. pipe, 16 standard 2 way fire hydrants, six 6 in. and seven 4 in. gate valves. G. B. Smith, 410 Citizens Bank Bldg., Pine Bluff, engr.

CONTRACTS AWARDED

Mass., Boston—Supply Dept., to Kennedy Valve Mfg. Co., Elmira, N. Y., twenty-four 8 in. gate valves $131.28 each, and twelve 12 in. gate valves $221.13 each. Noted Jan. 22.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Duncan and East 213 Sts., Allerton, Arrow, Byron, Colden, Fish, Hill, Hering, Laconia, Lurting, Mace, Mickle, Needham, Nereid, Seymour, Throop, Tenbroeck, Waking and Yates Aves., to C. DeBlasio, 339 7th Ave., Mt. Vernon, $14,889. Noted Jan. 29.

D. C., Wash.—Pipe Line—Dist. Comrs. constructing first high pipe line, here to Lock Joint Pipe Co., Ampere, N. J., $283,950. Noted Jan. 22.

N. C., Sanford—For 2 mi. 12 in. main, to Burlington Con. Co., Burlington, $28,000.

La., New Orleans—Waterworks on Hope Haven Farm, 6,000 ft. 6 in. c.i. pipe, medium weight, Class C valves and fittings, one 500 and one 200 gal. electric driven pump, sand and gravel filter, with 8 x 25 x 10 lb. pressure and 50,000 gal. tank with 110 ft. tower, to Stevens Constr. Co., Louisiana Bldg.

Wis., Milwaukee—Central Bd. Purchases, to W. P. Taylor Co., 218 Ellicott Sq., Buffalo, N. Y., 50 D boxes at $4.90 each, 450 D. D. boxes $5.20, 100 covers $0.75, 300 top sections $1.75, 50 D. D. middle sections $1.40 and 500 extension pieces $0.82; to U. S. Cast Iron and Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., 125 tons special castings, consisting of 3 and 4 ways, curves, etc., at $90 per ton, 3,060.4 tons 54 in. straight c.i. pipe at $46.50 per ton, 21.75 tons 54 in. lugged pipe $66.50, 32.9 tons special castings $160. Noted Jan. 29.

N. D., Jamestown—State Bd. of Administration, Bismarck, waterworks improvements at State Hospital for Insane, here, including concrete reservoir well, 16 ft., in diam. and 37 ft. deep, 1 concrete pump pit, installing 2 motor driven pumps, constructing brick and tile pump house, electric transmission line, 2,400 ft., long, laying 1,050 lin. ft. 8 in. c.i. pipe etc. to Northern Constr. Co., Grand Forks, $19,419. E. G. Wanner, ex. sec.

Mo., St. Louis — Bill Hayes, Inc., 907 Majestic Bldg., Detroit, Mich., sublet contract 87,000 ft. 60 in. pipe, for pressure conduit from Howards Bend to Missouri River in St. Louis Co here, to J. McNeil & Bro. Co., 29th St., Pittsburgh, Pa.; also 13,000 tons steel plate for ppie, to be supplied by Carnegie Steel Co., Carnegie Bldg., for Bd. Pub. Serv., 208 City Hall. Noted Jan. 29.

Sewers

PROPOSED WORK

Conn., Wallingford — Making plans sewage disposal plant. To exceed $25,000. W. A. MacKensie, City Hall, engr.

Fla., South Jacksonville (Ind. Br. Jacksonville)—See "Streets and Roads."

Ill., Belleville—Making tentative plans straightening Richland Creek from northern to southern limits and connecting storm sewers with same, also disposal plant, etc. $600,000. Engineer not selected.

Mo., St. Louis—Soon takes bids rein.-con. sewer, 32 ft. wide and 25 ft. high in Sect. E of River Des Peres Project through Forest Park, $1,540,000; repairing existing sewers incl. extension of outlets into Mississippi River as follows, Lesperance Sewer $45,000, Biddle-O'Fallon Sewer $74,500, Trudeau St. Sewer $56,000, and Fillmore St. Sewer $54,000. Noted Jan. 15.

Tex., Hillsboro—See "Waterworks."

Tex., Killeen—Election Feb. 18, to vote $36,000 bonds for sanitary sewer system. H. N. Law, mayor.

Tex., Lamesa—Voted $50,000 bonds extending sewer mains and provide disposal plant. J. Walker, mayor. Engineer not selected. Noted Jan. 8 under "Waterworks."

Tex., San Saba—Defeated $60,000 bonds for sewers. New election soon for sewers and waterworks systems. Address mayor. Noted Dec. 25.

Okla., Wewoka—Voted $50,000 bonds for 6 mi. extension to sanitary sewerage system. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Jan. 8.

Calif., Glendale—City Clerk takes bids about Feb. 19, 75,772 ft. 8- to 18-in. concrete sewers in various streets. Burns, McDonnell-Smith, 415 Marsh-Strong Bldg., Los Angeles, engrs.

Calif., Hermosa Beach — Voted $200,000 bonds for sewer lateral and $350,000 bonds for main sewer. Noted Jan. 1.

Calif., Los Angeles — Los Angeles Co. making plans drainage conduit and pipe line between Norwich Dr. and La Cienega Blvd., 29,300 ft. 6- to 10-in. concrete and 20,480 ft. 24- to 72-in. rein.-con. pipe, 218,000 cu.yd. excav., 4,750,000 lbs. reinforcing, 6,000 cu.yd. sand and gravel, 117 manholes, 40,000 ft. piling, etc. $1,800,000. A. K. Warren, Hall of Records Bldg., engr.

Calif., Venice—Voted $325,000 bonds, 24 in. sewers between here and Del Ray, connecting with Los Angeles outfall. H. D. Chapman, city engr. Noted Oct. 9.

Calif., Santa Barbara—Making revised plans sewers in Garden St., etc. Former bids rejected. Noted Jan. 29.

BIDS DESIRED

N. Y., Long Island City—Feb. 13, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., sanitary sewers in 150th, Sutter, North Conduit and Pitkin Aves., Judith, 75th (Ruby) and 76th (Emerald) Sts.

Md., Baltimore—Feb. 11, by Bd. Awards, 7,500 ft. 8- to 48-in. sewers in Storm Water Contr. 80. B. L. Crozier, City Hall, engr.

Ala., Mobile—See "Streets and Roads."

O., Portsmouth—Feb. 19 by C. W. Wilson, dir. Pub. Serv., for separate sanitary and storm sewers. C. S. Stevenson, city engr., adv. E. N.-R. Feb. 5.

Ill., Elgin — March 2, by Bd. Trustees Sanitary Dist. of Elgin, 12 Spurling Blk., equipment for sewage pumping stations. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, consult. engrs.; adv. E. N.-R. Feb. 5.

Wis., Milwaukee—Feb. 9, by D. W. Hoan, chn., Central Bd. Purchases, five hundred twenty-five 3 and 4 flange frame and gates with side inlet boxes and 100 standard manhole covers.

Minn., Winona—Feb. 9, constructing 2.3 mi. sewer main and about 725 lin.ft. of 12 in. c.i. discharge mains, in 5th Sewer Dist. $25,000. E. E. Chadwick, city engr.

CONTRACTS AWARDED

Conn., Wallingford—For 10,000 ft. concrete sewers in North Main St., to O'Neil Bros., 983 Main St., Hartford.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, (**e. e. means engineers estimate**) sewers in West 5th St., to C. F. Vacharas, 645 40th St., 71% e. e. $350,000; in Lefferts Ave. and 96th St., to Nazzarro & Guerriero, Inc., West 9th St., 69% e. e. $4,233 and 70% e. e. $1,348 respectively; Liberty Ave., to Tomasetti & Co., Inc., 1133 60th

Sewers (Continued)

St., 78% e. e. $9,557; Bergen Pl., to A. Talenti, 67% e. e. $2,058. Noted Jan. 22.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., sewers in Queens Blvd., to J. Gallo, 203 Division St., Brooklyn, $138,103; Laburnum Ave., to Kennedy & Smith, 93 Amity St., Flushing, $168,793. Noted Jan. 22.

Fla., Sarasota—For 3 complete sanitary sewerage systems, 49,300 ft. pipe in trenches 0 to 8 ft. depth, to J. L. Walker Co., 231 Court St., Hamilton, O., $65,000; remodeling 3 septic tanks, pump screens, 1 pumping station, 7,600 ft. 10 and 12 in. force mains, etc., to Erler Corp., Tampa, $26,000. Noted Oct. 2.

O., Canton—City, sewage disposal plant addition, incl. 3 sets of sedimentation tanks, sprinkling filters complete, 41,500 cu.ft. earth excav., etc., to Holmes Constr. Co., Wooster, $829,000. Engrs. est. $800,000. Noted Nov. 20.

Kan., Ft. Dodge—State Soldiers Home, 15,300 ft. 6- to 10-ft. vitr. clay pipe, 9 manholes, 2 flush tanks, etc., 2,800 ft. 2 and 6 in. c.i. pipe, 16 gate valves, etc., to Carrothers Constr. Co., 310 Walsix Bldg., Kansas City, Mo., $37,650.

Tex., Cameron — Sewage disposal plant with septic tanks, dosing chamber, filter beds, sludge beds, excavating, etc., to Thomas & Ratliff, Rogers, $22,864. Noted Dec. 18.

Tex., Mission—Sewerage system, mains, laterals, etc., in various streets, to N. A. Saigh Co., 202 Gibbs Bldg., San Antonio, $34,868; disposal plant, to H. J. Wilson, Pharr, $21,700. Noted Jan. 15.

Calif., Los Angeles — South Bay Cities Sanitation Dist., Los Angeles Co., 700 Hall of Records Bldg., 2 pumping stations, 4 pumps, and 28,644 ft. 24- to 30-in. rein.-con. sewer, etc. from point 10 ft. south of boundary line between Hermosa and Redonda, to J. C. Duncan, 5128 Fairmont Ave., Eagle Rock, $344,970. Engrs. est. $350,000. Noted Jan. 1.

Waste Disposal

PROPOSED WORK

Mass., Lynn—H. S. Johnson, city purch. agt., City Council Chambers, taking bids complete rein.-con. and brick incinerator plant, 80 ton daily capacity, near municipal stables on Gas Wharf. $200,000. Private plans.

Pa., Sharon—Feb. 17, garbage incinerator. L. E. Burnside, City Bldg., city engr.; adv. E. N.-R. Feb. 5.

Bridges

PROPOSED WORK

Mass., Boston — Dept. Pub. Wks., City Hall, plans reconstructing Massachusetts Ave. Bridge over tracks of Providence Div. of New York, New Haven & Hartford R.R. To exceed $25,000. J. A. Rourke, comr.

S. C., Charleston—State Hy. Dept. takes bids soon viaduct over Atlantic Coast Line and Southern Railway System tracks at Five Mile on King St. Extension project. $100,000. J. Parker, 602 Peoples Bldg., state highway bridge engr.

Miss., Gulfport—See "Streets and Roads."

Tennessee—See "Streets and Roads."

O., Akron—Summit Co., plans new South Street Bridge over Little Cuyahoga River, $25,000-$30,000. R. E. Willems, Court House, engr.

Wis., Racine—Making plans 180 to 190 ft., 3 span, concrete and steel bridge over Root River at Mead St. J. W. Beaugrand, city engr. Noted Jan. 29.

Wis., Superior—E. B. Banks, city engr., prepared plans and soon takes bids extending North 21st St. Viaduct, 400 ft. long, 140 ft. wide, concrete and steel, over Northern Pacific, and Duluth, South Shore & Atlantic R.R. tracks, for city. $200,000.

Tex., Beaumont — Election Feb. 16, to vote $300,000 bonds for city's share of cost for viaduct across Southern Pacific Ry. tracks. R. C. Black, city engr. Noted Dec. 4.

Tex., Floresville — See "Streets and Roads."

Missouri—State Hy. Dept., Jefferson City, making plans one 51 ft. rein.-con. deck girder span, etc., over Missouri & Pacific R.R. tracks, also eight 8 ft., four 10 ft. and one 40 ft. rein.-con. slab spans, etc., all Johnson Co.; four 60 ft. steel truss and four 30 ft. I-beam spans, etc., over west fork Grand River and one 45 ft. rein.-con. deck girder span, etc., over east fork Joy Creek, both Worth Co.; two 8 ft. and two 12 ft. rein.-con. slab spans, etc., over Camp Branch, Cass Co.; two 12 ft. rein.-con. slab spans, etc., Marion Co.; three 100 ft. steel truss and two 40 ft. rein.-con. deck girder spans, etc., over Salt River, Shelby Co.; two 12 ft. rein.-con. slab spans, etc., over Little River, Pemiscot Co.; one 60 ft. rein.-con. arch span, etc., over Long Branch, Caldwell Co. B. H. Piepmeier, ch. engr.

Mo., Clayton—See "Streets and Roads."

Ore., Portland—City Comn. authorized S. S. Pier, city comr., to sell $286,000 bonds for Bway. Bridge and having plans and estimates prepared approach to west end bridge, either from 12th and Lovejoy Sts. or Hoyt and 10th St. A. Laurgaard, City Hall, engr.

Calif., Santa Barbara — Plans election $60,000 bonds, constructing five small bridges in various sections of city.

BIDS DESIRED

Vermont—See "Streets and Roads."

N. Y., Ithaca—Mar. 2, by C. D. Bostwick, comptroller, Cornell University, 100,000 cu. yd. hydraulic dredging of Beebe Lake. Bids also taken by W. O. Kerr, city clk., 100,000 cu.yd. dredging at south end Cayuga Lake; adv. E. N.-R. Feb. 5.

Michigan — Feb. 16, by Kalamazoo Co. Rd. Comn., Kalamazoo, constructing three 40 ft. spans, concrete and steel bridge.

Texas—Feb. 13, by G. H. Tucker, judge Ward Co., Barstow, 193 ft. steel truss and concrete girder bridge over Pecos River, for Reeves and Ward Counties.

Texas—See "Streets and Roads."

Tex., Barstow—See "Streets and Roads."

Tex., Brownsville — Feb. 11, by W. O. Washington, engr. Cameron Co., 2 span 300 ft. steel and concrete bridge across Arroyo Colorado. $66,000. Noted Jan. 8.

Tex., Houston—See "Streets and Roads."

Calif., Eureka—Feb. 11, by F. M. Kay, clk. Humboldt Co., 3 rein.-con. bridges over Van Duzen River, Humboldt Co. $70,000. J. B. Leonard, 381 Bush St., San Francisco, engr.

BIDS RECEIVED

S. C., Beaufort—Ladies Island Bridge, from Pheonix Constr. Co., 13 Park Row, New York City, $217,654; steel work for above project from Amer. Bridge Co., 71 Bway., New York City, $75,000.

Calif., Old Town (San Diego P. O.)—W. H. Cameron, supt. City Purchasing Dept., San Diego, steel truss superstructure with rein.-con. deck for bridge over San Diego River, here, from Minneapolis Steel & Mchy. Co., 2854 Minnehaha Ave., Minneapolis, Minn., $38,947. Noted Oct. 16.

CONTRACTS AWARDED

Pa., Turtle Creek—Alleghany Co. (Pittsburgh), furnishing and erecting steel, fireproofing, etc., bridge on Lincoln Highway over Pennsylvania R.R. tracks, to Independent Bridge Co., May Bldg., Pittsburgh, $156,008. Noted Oct. 23.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, (**S. A. P. means State Aid Project**), one concrete bridge over 20 ft. span and five 26 ft. span concrete bridge over Laurel Fork River, S. A. P. 189, Carter Co., to C. H. Atkisson & Co., Richmond, Va., $17,919; two 26 ft. and one 36 ft. rein.-con. overhead crossing, near Springfield, S. A. P. 119-C, Robertson Co., to Parham Constr. Co., East St. Louis, Ill., $10,353; 3 rein.-con. bridges over 20 ft. span on Sordy-Hardin Co. line Rd., S. A. P. 186, Wayne Co., and 4 bridges over 20 ft. span between Sta. 399 plus 00 and Wayne Co. line Rd., S. A. P. 187-A, Hardin Co., to V. W. Clanton, Tyronza, Ark., $31,531 and $60,650 respectively. Noted Jan. 8.

Mich., Detroit—Wayne Co. Rd. Comn., Real Estate Exch. Bldg., furnishing and fabricating approximately 1,300 tons structural steel superstructure for Strauss Bascule type bridge over River Rouge at Dix Ave., to Wisconsin Bridge & Iron Co., 1362 Penobscot Bldg., $350,000. Noted Sept. 11.

Minn., Worthington—Nobles Co., 89,640 lin. ft. 6-30 in. drain tile, and 14,500 lin. ft. of sewer tile in Judicial Ditch 17, to J. W. Wilkin, New Ulm, $59,209. Noted Jan. 8.

Kan., Wichita—To Granite Concrete & Constr. Co., 114 West 10th St., Kansas City, Mo., one 40 x 245 ft. rein.-con. bridge, 64 ft. wide, across Little River at Nurdock Ave., incl. 1,800 sq.yd. paving, etc., $85,607, engrs. est. $95,000; 135 ft. 3 span bridge over drainage canal, incl. two 12 ft. walks, etc., $23,477, engrs. est. $25,000. Noted Jan. 22.

Tex., Sulphur Springs—See "Streets and Roads."

Dams

PROPOSED WORK

N. C., Chimney Rock — Chimney Rock Mountains, Inc., plans dam and hydro-electric installation on Rockey Broad River, near here, also an addition to above summer resort, 1,500 acre lake, hotels, golf courses, roads, drives, walks, etc. $4,000,000.

Wash., Wenas—See "Excavation, Drainage, Irrigation, Levees."

Calif., Orange—See "Excavation, Drainage, Irrigation, Levees."

Calif., Stockton — Making plans gravity and arch type dam, below San Andreas, 1,400 ft. long, 150 ft. high, arch section to be 70 ft. thick at base, involv. 104,000 cu. yd. concrete. $1,500,000 available. W. B. Hogan, city engr.

BIDS DESIRED

B. C., New Westminster—Feb. 26, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, 2,300 ft. dam, 20 to 40 ft. wide, at Woodwards Slough, Fraser River. $75,000.

Railways

PROPOSED WORK

Texas—See "Buildings—Industrial" under Beaumont.

CONTRACTS AWARDED

Texas—Med-Lake Development Co., San Antonio, 32 mi. railroad from San Antonio to Medina Lake, to P. Hansen, 2216 West Houston St., San Antonio, $664,000. Above project 1st unit of 270 mi. railroad from San Antonio to San Angelo.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Ill., Belleville—See "Sewers."

Ia., Council Bluffs — Pottawattamie Co. plans diverting Indian Creek through proposed 13 ft. tunnel from north city limits through Bluffs and Big Lake into Missouri River. $644,617. G. B. Sparks, co. aud.

Texas—Bexar Co. (San Antonio), Medina Co. (Hondo), and Atascosa Co. (Jourdanton), plan water district, irrigating 47,000 acres. Directors will set date for $2,500,000 bond election within 60 days. Noted Jan. 8.

Wash., Wenas—Wenas Irrigation Dist. has been formed and plans 2,000 acres of riparian lands on Wenas Creek, also dam and water storage. $40,000. D. Longmire, J. B. Frink and R. C. Babbitt, directors.

Calif., North Sacramento (Sacramento P. O.)—North Sacramento Land Co., 825 Jay St., Sacramento, plans irrigating 800 acres, 5,280 ft. canal 6 ft. wide on top, 3 ft. on bottom, 2 ft. deep, also pumping plants, two 10 in. centrifugal pumps, 7 cu. ft. capacity each, total lift 20 ft. direct connected to 40 hp. motors. $15,000 or more. Private plans.

Calif., Orange — Irrigation Dist. represented by Rutan & Scovel, 1st Natl. Bank Bldg., Santa Ana, plans irrigating approximately 6,000 acres, and constructing hydraulic fill storage dam, 100 ft. high, 725 ft. long on top, 30 ft. on bottom, 20,000 acre ft. capacity.

BIDS DESIRED

Minn., Minneapolis—Feb. 17, by A. P. Erickson, aud. Hennepin Co., (1) open ditch 45,000 cu.yd. excav., leveling out 18,000 cu. yd. waste banks, 2 flood water intakes, one standard type concrete culverts, 6 x 8 x 45 in. Judicial Ditch 3, near Eden Prairie, (2), laying 7,800 lin.ft. of 6-20 in. tile drain, 4 bulkhead outlets. S. A. Norling, Excelsior, engr.

BIDS RECEIVED

Calif., Merced—Directors Merced Irrigation Dist., Jan. 14, constructing and enlarging canals. Schedule 1, 110,000 cu.yd. excav., and Schedule 5, 38,000 cu.yd. excav., from J. Phillips, 637 Santa Ray Ave., Oakland, at $0.14 per cu.yd., total $15,400 and $5,320 respectively; Schedule 2, 27,000 cu.yd. excav., from C. E. Murray, Modesto, $0.22, total $5,940; Schedule 3, 40,000 cu.yd. excav. and Schedule 4, 35,000 cu.yd. excav., from M. J. Bevanda, Fresno, at $0.1115 and $0.125 per cu.yd., total $4,600 and $4,375 respectively; Schedule 6, 2,000 cu.yd. excav. and 13,000 sq. ft. concrete lining, from Carlson Bros., Turlock, $1,750; Sched-

Excavation, Drainage, Irrigation, Levees
(Continued)

ule 7, 2,000 ft. 30 in. concrete pipe, from Merced Concrete Pipe Co., Merced, $7,802; Schedule 8, furnishing 120 ft. Oregon pine and 140 raw wood timber, from Redwood Mfg. Co., Hobart Bldg., San Francisco, $5,088.

CONTRACTS AWARDED

Fla., St. Petersbury—Dredging about 1,100,000 cu.yd., to Duluth Superior Dredging Co., foot 45th Ave. W., Duluth, Minn., also 1,500 lin.ft. rein.-con. docks to Raymond Concrete Pile Co. Noted Nov. 13 under "Unclassified."

Fla., Tampa — Ideal Farms D.D., 32 Giddens Bldg., for 740,000 cu.yd. dry earth excav., to F. M. Crane Co., Hamilton Blk., Omaha, Neb., $202,000. Engrs. est. $125,000. Noted Dec. 4.

Wis., Fond du Lac—W. Schroeder, 86 Michigan St., Milwaukee, excavation for 3 story and basement, 100 x 200 ft., rein.-con., brick and terra cotta, plain foundation, Main St., to Immel Constr. Co., Dana Bldg. Noted Oct. 23 under "Buildings—Commercial."

Tex., Dallas—Dalls Co. changing creek channel on Reak Branch, to R. J. Estep & Co., Wilson Bldg., $0.75 per yd. Engrs. est. $27,000.

Tex., Edinburg — F. N. Taylor, secy Water Impvt. Dist. 4, Hidalgo Co. intake canal near Penitas, 60,000 yd. dirt work, Penitas main canal, 760,000 yd dirt work, settling basin, levee near Penitas, 150,000 yd. dirt work, to L. D. Crawford, Mercedes, $100,000.

Calif., Blythe—Palo Verde Mutual Water Dist., will construct 6 mi. canals, approximately 470,000 cu.yd. earthwork, by day labor. $126,500. Noted Dec. 11.

Streets and Roads

PROPOSED WORK

Vermont — State Hy. Dept., Montpelier, made plans concrete paving 4 mi. highway in Pownal, and 3 mi. in Windsor, bituminous macadam paving 5 mi. highway in Shelbourne and Charlotte, and 2 mi. in Guilford; graveling 3 mi. highway in Ryegate, and 3 mi. in Shelbourne; bridges in Hartland, Northfield, Westfield and Bethel. T. W. Dix, highway engr.

Massachusetts — Dept. Pub. Wks., Div. Highways, State House, Boston, plans road from State Hospital, Westboro to Boston Post Rd., Northboro. To exceed $25,000. W. F. Williams, comr.

Mass., Boston—City Planning Bd. plans widening Dorchester Ave. $800,000. F. H. Fay, chn.

Mass., Marblehead—Plans laying out and constructing Hewitt and West Cottage Sts., also widening Rockaway St. $25,000. Engineer not selected.

Mass., Medford — Plans widening Main St. To exceed $25,000. F. R. Cannock, city engr.

Mass., Quincy (Ind. Bd. Boston) — Bd. Aldermen plan additional paving of Hancock St., $40,000 appropriation; widening West Squantum and Sagamore Sts., rebuilding Glover Ave. and West Squantum Rd., to exceed $25,000. Engineer not selected.

Pa., Slickville—Westmoreland Co. plans rein.-con. and hillside brick on rein.-con. paving 20,330 ft. Saltsburg Rd., 16 ft. $150,000. W. G. Wynn, Court House, Greensburg, co. engr.

Md., Baltimore—Making plans sheet asphalt surfacing 20th, 32nd, Morling, and Wesseley Sts., also Luzerne Ave. from Eager Pl. to Chase St. and Luzerne Ave. from Chase to Biddle Sts. S. Rowland, 214 East Lexington St., acting chn. Paving Comn.

S. C., York—York Co. plans hard surfacing various roads. $1,000,000. Lee, Murray, Palmer & Brown, Sumter, engrs.

Fla., South Jacksonville (Ind. Br. Jacksonville)—Election March 3, $400,000 bonds for street paving, water main extensions, light plant, improving sewers and municipal docks.

Miss., Aberdeen — Making preliminary plans grading, hardsurfacing, etc. approximately 40,000 sq.yd. various streets. A. L. Dabney, 820 Columbian Tower, Memphis, Tenn., engr.

Miss., Ellisville—Jones Co. plans election in February or March $120,000 bonds, brick and concrete surfacing 8 mi. Ellisville-Laurel Rd., 18 ft.

Miss., Gulfport—Harrison Co. plans election $1,500,000 bonds for improving roads and bridges, incl. bridge over Back Bay between Biloxi and Ocean Springs. Noted Jan. 29.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, and Unicoi Co. (Erwin), making surveys improving 6 mi. Ernestville-North Carolina State line Rd. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville and Sevier Co., Sevierville, plan improving Sevierville-Elkhart Rd., in Smoky Mts. $75,000. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, takes bids in March or April, grading, probably gravel surfacing 7 mi. Sta. 399 plus 00-Savannah Rd., 16 ft., Hardin Co., incl. several concrete bridges over 20 ft. span. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, and Polk Co. (Benton), making surveys improving 2.5 mi. Parksville-Ococee River Rd. J. G. Creveling, highway engr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans grading, bridges, etc. 15 mi. Milan-Bradford Rd., Gibson Co. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, and Giles Co. (Pulaski), making surveys improving 17 mi. Pulaski-Maury Co. line Rd. J. G. Creveling, highway comr.

O., Canton — Bd. Control takes bids in spring, asphalt paving Walnut Ave. N. W., $25,000; and improving 13th St., $25,000. W. E. Sarver, city engr.

O., Canton—Stark Co., takes bids in the spring, probably brick paving, 1 mi. North Canton—Maximo Rd., Sect. C 16 ft., $35,000. C. M. Wise, Court House, engr.

O., Cleveland — Comrs., Cuyahoga Co., take bids in spring, brick paving 4.5 mi. Lake Shore Rd. $975,600, and 2 mi. Harvard Ave., $342,000; concrete paving 1 mi. Mackenzie Rd., $65,000. F. Lander, Court House, engr.

Mich., Mt. Clemens—Macomb Co. Road Comn. making plans grading, concrete surfacing, etc., 10 mi. Grand Trunk Highway from here to Detroit, 40 ft. W. Lehner, Mt. Clemens, co. engr.

Ill., Salem—Takes bids in May, grading and concrete surfacing 11,000 ft. various streets. $100,000. Caldwell Eng. Co., 502 Ayers Bank Bldg., Jacksonville, engrs.

Ill., Wheaton—Wheaton Co. soon takes bids grading, bridging, concrete or macadam surfacing 20 mi. Irving Park Blvd., also a section at Eola, Wheaton-Cloverdale and Bloomingdale-Roselle Rds. E. L. Gates, Wheaton, supt.

Wis., Wauwatosa—Plans concrete paving East Milwaukee Ave. between city limits and Ludington Ave., North Main St. from Park to end of North Main Sts. J. E. Lowther, City Hall, engr.

Ia., Inwood—Making plans concrete or gravel surfacing, or combination of both, also curbing and guttering about 30 blocks various streets. $30,000-$100,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Ia., Moville — Plans paving about 25 blocks various streets, bids on various types. $80,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Kan., Greenburg—Kiowa Co. soon takes bids sand clay surfacing 3.666 mi. Federal Aid Project 305-A, 3.64 mi. Federal Aid Project 275-A and 3.144 mi. Federal Aid Project 267-B, all 18 ft., incl. three 18 ft. slab bridges and 20 ft. roadway. J. Garb, Greensburg, engr.

Neb., Papillion—Sarpy Co. voted $25,000 bonds, grading and surfacing roads in Forest City Precinct.

Neb., Papillion—Sarpy Co. plans election $40,000 bonds for improving roads in Springfield precinct. R. L. Cochran, Capitol Bldg., Lincoln, engr.

Mo., Clayton — St. Louis Co. — Making preliminary plans resurfacing with concrete 1 mi. Clayton Rd., 18 ft. $25,000. R. Jablonsky, co. engr.

Mo., Clayton—St. Louis Co. making preliminary plans grading, bridging and paving 20 mi. road from St. Charles Rock to Lemay Ferry Rds., 18 ft. $200,000-$600,000. R. Jablonsky, Clayton, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids improving Belt Ave., 4,975 sq.yd. Warrenite bitulithic on concrete $22,100; Christian St., 912 ft. waterworks conduit, 2,795 sq.yd. rein.-con. paving, concrete gutters $14,500; Mississippi St., 4,855 sq.yd. granite on concrete, granite curbing $44,100; Grand Blvd., 31,210 sq.yd. Warrenite bitulithic $158,000. W. W. Horner, city engr.

Mo., St. Louis—Making preliminary plans grading and brick on concrete or plain concrete paving alleys in City Blocks 2568, 2817, 2884, 2885, 2928, 2971, 3070, 3396, 4154, 4571, 5011, 5012-E, 5292, 5296, 5318, 5558, 5570, 5571 and 5640. $68,507 for concrete or $110,060 for brick. W. W. Horner, city engr.

Mo., St. Louis—Making preliminary plans asphalt resurfacing on concrete portions bridge roadway, etc. $30,000. C. S. Butts, City Hall, engr.

Mo., St. Louis—See "Unclassified."

Mo., Sedalia—Making preliminary plans grading, curbing and concrete paving 18 blocks Lafayette Ave., etc.

Ark., Jonesboro — Making preliminary plans grading, hard surfacing, etc., 5 mi. roads in Dist. 29.

Ark., Perryville—Perry Co. making preliminary plans grading, bridging and surfacing 50 mi. Perryville-Ava-Alpin and Hollie Rd.

Tex., Cameron — Voted $125,000 bonds permanent paving various streets. A. F. Mitchell, city engr. Noted Dec. 11.

Tex., Corpus Christi—Nueces Co. soon takes new bids additional paving about 12 mi. Brownsville Rd. $70,000. C. E. Cocke, Corpus Christi, co. engr. Noted Jan. 8.

Tex., Floresville—Wilson Co. postponed bids which were to be opened Feb. 2, until after new court is organized grading, rock asphalt or Amesite on rock paving and bridging 14.52 mi. State Highway 16, Federal Aid Project 440-A, $200,000; grading, asphaltic macadam paving and bridging 12.12 mi. State Highway 81, Federal Aid Project 440-A, $150,000, 9.43 mi. State Highway 81, Federal Aid Project 440-B, $130,000, 9.06 mi. State Highway 81, Federal Aid Project 440-C, $90,000, all 18 ft. F. E. Hess, co. engr. Noted Jan. 15.

Tex., Navasota — Making plans permanent concrete paving Judson St. $50,000 bonds voted. R. H. Brule, city engr.

Tex., Quanah—Defeated $600,000 bonds for highway construction. Plans new election soon. Noted Jan. 8.

Tex., Slaton — Election soon $60,000 bonds permanent paving 25 blocks. J. L. Cruse, mayor.

Tex., Waco—E. E. McAdams, city mgr., soon takes bids asphaltic concrete paving, etc., 9,000 yd. 11th St. $26,000; 24,000 yd. Columbus St. $70,000; and 8,000 yd. Bosque St. $25,000. V. G. Koch, city engr.

Okla., Marietta — Making preliminary plans surfacing 8 blocks various streets. To exceed $25,000. Engineer not announced.

Wash., Seattle—Comrs. King Co. takes bids about March 1, concrete paving 1.25 mi. 10th Ave. N. E. from 85th to 105th Sts. $40,000. T. R. Beeman, 602 37th St., Seattle, engr.

Calif., Fayetteville — Butte Co. made plans improving Oroville-Quincy Rd., 765 cu.yd. grading, 7,856 tons broken stone, 305 tons asphaltic oil, spread, county to furnish stone and screenings. $30,000 or more. H. H. Hume, Oroville, co. engr.

Calif., Independence — Inyo Co. making surveys improving Saline Valley Rd. $25,000 or more. B. E. Sherwin, Independence, co. surv.

Calif., Los Angeles — Takes bids about Feb. 25, grading, curbing, sidewalks and asphaltic concrete paving El Contento Dr., Le Gray Ave., Emmet Terrace, Clifton, Altura and 12th Sts. To exceed $75,000. H. A. Van Norman, City Hall, engr.

Calif., Los Angeles — Widening Wilshire Blvd. J. J. Dillon, ch. engr. Greater Washington Blvd. Assn., announced between Rimpau Ave. and city limits of Beverly Hills.

Calif., Monterey Park — Plans paving, curbing, guttering and sidewalks, etc., on Garvey Ave. To exceed $25,000. O. A. Stone, Hollingsworth Bldg., Los Angeles, engr.

Calif., Oakland—Made plans improving Hopkins St. between Champion and Excelsior Aves., 26,549 sq.ft. grading, 25,589 sq. ft. 2 in. Warrenite bituminous on 6 in. concrete paving, curbs with and without steel guards, etc. W. W. Harmen, city engr.

Calif., Venice — Made plans improving Leona Blvd., 388,000 sq.ft. 7 in. concrete paving, 6,000 lin.ft. heavy curb, 16,000 sq. ft. concrete sidewalks, 82 rein.-con. lighting standards. H. D. Chapman, city engr.

Calif., Winters — Plans paving various streets. To exceed $25,000.

Ont., Kingston — Plans 15,000 sq.yd. asphalt or concrete on concrete paving, etc. various streets, $60,000. H. S. Dick, city engr.

Streets & Roads (Continued)

BIDS DESIRED

Pennsylvania — Feb. 27, by State Dept. Hys., Harrisburg, constructing 72 mi. of 15 projects in 15 counties, bituminous surfacing on concrete or rein.-con. W. H. Connell, engineering executive and deputy secy. of highways; adv. E. N.-R. Feb. 5.

N. C., Kernersville—Feb. 25, by Mayor, 40,000 sq.yd. hard surfacing various streets. Carolina Eng. Co., Charlotte, engrs.

Ala., Mobile—March 4, by Bd. Comrs. paving, concrete curbing and storm sewers. W. Smith, city engr.; adv. E. N.-R. Feb. 5.

Miss., Holly Springs—March 3, by Bd. Supervs. Marshall Co., grading, gravel and sand clay surfacing 2.1 mi. Federal Aid Project 39, also furnishing washed screened or pit run gravel f.o.b. unloading points. H. C. Dietzer, Jackson, engr.

Louisiana—Feb. 19, by State Hy. Comn., Reymond Bldg., Baton Rouge, grading and gravel surfacing 2.55 mi. Many-Robeline Highway, State Project 399-A, and 4 mi. Many-Zwolle Highway, State Project 398-A, both Sabine Parish. W. B. Robert, highway engr.

Louisiana—Feb. 24, by State Hy. Comn., Reymond Bldg., Baton Rouge, improving 9.96 mi. Many-Texas State Line Rd., Federal Aid Project 150-A, Sabine Parish, and furnishing 3,558 cu.yd. wash gravel and 7,134 cu.yd. 40% sand clay or 10,692 cu.yd. 60% sand clay for surfacing Shreveport-Natchitoches Rd., State Project 343-B, Red River Parish. W. B. Robert, highway engr.

O., Cincinnati — Feb. 13, by Comrs. Hamilton Co., grading and rein.-con. paving 19,430 sq.yd. Wesselman Rd. $104,673. E. A. Gast, Court House, engr. Noted Jan. 29.

O., New Philadelphia—Mar. 1, by Serv. Dept., repaving business district of Bway. and High St., $100,000. E. Stingel, engr.

Ill., Wheaton—Feb. 9, by Clerk Du Page Co., grading and concrete or macadam surfacing 5 mi. Naperville-Warrenville Rd., 18 ft. $160,000. E. L. Gates, Wheaton, supt.

Wis., La Crosse—Feb. 12, by Bd. Pub. Wks., rein.-con., vibrolithic concrete, 3 in. vertical fibre brick, asphaltic concrete, Warrenite bitulithic and asphaltic macadam, 31,506 sq.yd. if combined curb and gutter is used or 37,062 sq.yd. if concrete pavement with integral curb is used, 3,097 sq. yd. in street car track zone, 19,221 ft. concrete curb and gutter or 18,139 ft. integral curb; also 6,350 ft. concrete curb and gutter on Badger St. C. C. Congdon, city engr.

Wis., Waupun — Feb. 17, by Bd. Pub. Wks., C. E. Mallory, chn., improving various streets, 14,637 sq.yd. vibrolithic concrete, Warrenite bitulithic or asphaltic concrete paving, 5,635 cu.yd. excav., 11,130 ft. curbing and guttering. E. B. Parsons, Jefferson, engr. Noted Dec. 4.

Ia., Maquoketa—Feb. 17, by G. O. Morsem, city mgr., City Hall, surfacing 22,790 sq.yd. various streets. J. G. Thorne, Clinton, designing and supervising engr.

Ia., Marion—Linn Co. taking bids grading, concrete surfacing, etc., 12.75 mi. Federal Aid Project 96, 18 ft. R. W. Gearhart, Marion, engr.

Kan., Kansas City — Feb. 23, by W. Beggs, clk. Wyandotte Co., grading, concrete surfacing, etc., 1.249 mi. Antone Rd., 18 ft. and 10 x 10 x 24 ft. box culverts on John Swartz Rd. near Turner. O. K. Williams, Court House, engr. Noted Jan. 15.

Mo., St. Louis—Mar. 3, by Bd. Pub. Serv., 208 City Hall, improving Devonshire St. 3,400 sq.yd. asphalt on concrete surfacing $17,700; Eichelberger St. 9,365 sq.yd. asphalt on concrete, granite curbing $66,200; Lafayette St. 10,205 sq.yd. Willite on concrete, concrete curbing $57,000; Goodfellow St. $9,780 sq.yd. Willite on concrete, granite curbing $61,500; Dewey St. 1,100 sq.yd. asphaltic concrete, concrete curbing $9,500; Margaretta St. 1,775 sq.yd. asphaltic concrete, granite curbing, $11,500; Famous St. 2,320 sq.yd. Warrenite bitulithic on concrete, concrete curbing $16,000; Thekla St. 1,290 sq.yd. Warrenite bitulithic on concrete, granite curbing $9,750; 11th St. 1,920 sq.yd. recut granite block paving, granite curbing $18,500; Scott St. 1,950 sq.yd. brick on concrete paving, granite curbing $19,700; Nashville St. 2,365 cu.yd. grading $2,200. W. W. Horner, city engr.

Texas — Feb. 10, by H. L. Washburn, aud. Harris Co., Houston, grading, bridging and concrete paving 16,080 sq.yd. State Highway 6, in Harris and Galveston Counties. J. M. Murch, Galveston, aud. Galveston Co., Galveston.

Tex., Barstow—Feb. 13, by G. H. Tucker, judge Ward Co., grading, gravel surfacing and bridging 4.61 mi. State Highway 1, Federal Aid Project 391-B, 16 ft., $88,250. S. S. Posey, res. engr. Noted Dec. 25.

Tex., Galveston — Feb. 11, by Bd. City Comrs., limestone rock surfacing 75,000 sq. yd. various streets in business section. C. A. Holt, Jr., city engr.

Tex., Houston—Feb. 10, by C. H. Bryan, judge Harris Co., grading, concrete paving and bridging 6.53 mi. State Highway 6, Federal Aid Project 466-A and D, 20 and 30 ft., $275,000. Howe & Wise, First Natl. Bank Bldg., engrs.

Tex., Pearsall—Feb. 25, by R. E. Killmer, engr. Frio Co., grading and graveling, etc., 14.8 mi. road from Dilley west to Dimmit Co. line, 18 ft. $170,000. Noted Jan. 1.

Wash., Port Angeles—Feb. 13, by Comrs. Clallam Co., grading, etc., 4.7 mi. Highway 5. F. Sullivan, Port Angeles, engr.

Wash., Seattle — Taking bids repaving Pike St. from 1st to 8th Aves., asphaltic concrete $40,000 or portland cement concrete $51,000.

Calif., San Diego — Feb. 16, by A. H. Wright, city clerk, improving West Pt. Loma Blvd., Voltaire, Bacon and DeFoe Sts., 1,014 cu.yd. excav., 393,158 sq.ft. 1.5 in. wearing surfacing on 3 in. bituminous base, 9,744 sq.ft. concrete sidewalks, 1,365 ft. 6 in. concrete curb, 1,619 ft. 8 in. concrete curb, etc. F. A. Rhodes, city engr. Noted Jan. 8.

Calif., Santa Rosa—Feb. 11, by W. W. Felt, Jr., clk. Sonoma Co., improving Forestville-Guerneville Highway, Sect. "A," 97,180 sq.ft. paving, 2,200 cu.yd. excav., etc. E. A. Peugh, Santa Rosa, co. surv.

BIDS RECEIVED

Massachusetts—Dept. Pub. Wks., Div. Highways, rein.-con. paving 17,724 ft. highway in Lenox and Lee, 18 ft., from L. C. Carchia & Co., 308 Bellevue St., West Roxbury. $202,000. Noted Jan. 15.

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, Jan. 28, asphalt paving Gold and Ridgewood Aves., from Borough Asphalt Co., 131 Metropolitan Ave., $26,486 and $47,709 respectively; New York Ave., from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $45,101. Noted Jan. 22.

N. Y., New York—J. Miller, pres. Manhattan Boro., Municipal Bldg., Jan. 29, widening and wood block repaving Columbus Circle; and regulating and granite block on concrete repaving Wooster St., from J. Meehan & Son, 74 Cortlandt St., $5,438 and $20,688 respectively. Noted Jan. 22.

N. J., Atlantic City—Paving city end of Absecon Blvd., from C. H. Earle, Hackensack, $240,000.

Mo., St. Louis—Bd. Bub. Serv., 208 City Hall, from Webb-Kunze Constr. Co., 5927 Fyler Ave., concrete alleys C. B. 3269 $3,055; from Eyermann Constr. Co., 1216 South Grand Ave., C. B. 1383 $4,752, C. B. 1384 $3,023, C. B. 1584 $5,015, C. B. 2984 $2,155, C. B. 5299-S $2,264; from Skrainka Constr. Co., Security Bldg., C. B. 4064 $4,143, C. B. 4460 $3,181, C. B. 5573 $3,920; from Perkinson Bros. Constr. Co., 3237 Carter Ave., C. B. 5261 $5,017, C. B. 5232 $3,947, C. B. 5246 $3,216, C. B. 5396 $2,920, C. B. 5527 $4,134. Noted Jan. 8.

CONDUIT—BROOKLYN, N. Y.

Following are lowest three bids opened Jan. 27th by Bd. of Water Supply, Municipal Bldg., New York, for constructing Sect. 1 of Williamsburg Conduit of Catskill Aqueduct. Contr. No. 219, (A) Beaver Eng. & Contg. Co., 51 Chambers St., New York; (B) Wataga Contg. Co., Inc., 334 Lenox Ave., New York; (C) Paino Bros., 32 Court St., Brooklyn. The unit bids are as follows:

	A	B	C
55,000 cu.yd. earth excavation and refilling not included in item 2	$3.00	$4.45	$5.65
7,000 cu.yd. earth excavation and refilling under tracks, sewers, etc.	3.00	7.00	5.50
4,000 cu.yd. rock excavation	3.00	4.00	1.00
100 M.ft. B.M. timber and lumber	40.00	119.80	30.00
500 lin.ft. timber piles	.50	2.00	2.00
15,250 lin.ft. 72 in. steel pipes, ½ in. plate	36.80	30.16	30.00
100 ton cast-iron pipes, straight hub-and-spigot	60.00	123.00	100.00
125 ton cast-iron hub-and-spigot pipe specials	170.00	215.00	150.00
25 ton cast-iron flanged pipes and specials	200.00	265.00	200.00
55 ton cast-iron valve-boxes, manhole heads and covers	80.00	100.00	100.00
25,000 lb. steel castings	.25	.20	.23
275,000 lb. caring for and setting metal-work furnished by the city	.01	.09	.05
1 72 in. by 36 in. Venturi meter	25,000.00	8,639.00	20,000.00
4 20 in. pressure-regulating valves	5,000.00	1,200.00	2,000.00
2 24 in. pressure-regulating valves	7,500.00	1,400.00	2,500.00
40,000 lb. structural and reinforcing steel	.06	.13	.05
30,000 lb. miscellaneous cast iron, wrought iron and steel	.15	.15	.05
7,000 bbl. portland cement	2.50	2.65	3.00
1,800 cu.yd. concrete, brick and rubble masonry	15.00	10.22	20.00
2,200 cu.yd. concrete masonry under pavements and curbs	10.00	6.00	5.00
10,000 sq.ft. mortar lining	.75	.50	.50
550 replacing water services, 2 in. and smaller	3.00	10.00	5.00
100 cu.yd. crushed stone and gravel for drains	2.00	4.00	3.00
12,000 lin.ft. vitrified pipes, 3 to 12 in. in diameter	.50	1.04	.20
500 lin.ft. vitrified pipes, 15 to 24 in. in diameter	1.00	2.89	1.00
1,800 sq.yd. temporary granite block pavement	.50	2.00	1.50
2,600 sq.yd. temporary macadam pavement	1.00	1.00	1.00
8,000 sq.yd. temporary cinder pavement	.50	.20	.30
9,500 sq.yd. temporary sidewalk surfacing	.50	.60	.30
11,000 sq.yd. asphalt pavement	2.00	2.00	2.00
1,500 sq.yd. granite block pavement	2.00	2.00	3.00
6,000 sq.yd. flag sidewalks and cross-walks	.50	2.70	1.00
4,000 sq.yd. cement concrete sidewalks	2.00	3.15	2.00
2,500 lin.ft. curb	.50	1.00	2.00
Engineer's office (lump sum)	2,000.00	2,000.00	2,000.00
Extended totals	$1,009,850	$1,036,430	$1,047,000

Michigan — State Hy. Dept., at Port Huron, Jan. 20, graveling 9 mi. A. D. 445, 16 ft., in St. Clair and Lapeer Counties, from C. McComb, Algonac, $93,783.

Ark., Van Buren—For 6 in. plain concrete surfacing with marginal bars, etc., 40,145 sq.yd. Dist. 3, and curbing, guttering, etc., Dist. 1, from Kaw Paving Co., N. E. Bldg., Topeka, Kan., $71,095 and $37,414 respectively. Noted Jan. 8.

Calif., Fresno—Fresno Co., from California Rd. & Street Impvt. Co., Bank of Italy Bldg., improving roads in Dist. Imp. 6, 107,400 sq.ft. 1.5 in. Warrenite on 2.5 in. asphaltic concrete, at $0.157 per sq.ft., 167,200 sq.ft. grading $0.036, total approximately $35,125; from Thompson Bros., G and Divisadero Sts., roads in Dist. Impvt. 7, 812,650 sq.ft. 1.5 in. Warrenite on 2.5 in. asphaltic concrete at $0.176 per sq.ft., 1,243,800 sq.ft. grading $0.015, total approximately $172,000. Noted Jan. 22.

Calif., Los Angeles — Los Angeles Co. grading, curbing, Willite paving, etc., 28,103 sq.yd. Inglewood Ave. Dist. 149, from H. H. Foster, 3301 East 2nd St., $72,572, engrs. est. $80,839; improving Linden St. Impvt. Dist. 87, 1,988 ft. curbs, 4,384 sq.ft. gutters, 7,899 sq.ft. sidewalks, 1,457 cu.yd. excav., 3,560 sq.yd. grading, screening and oiling, 3,560 sq.yd. shaping roadway, etc., from G. R. Curtis, 2240 East 26th St., $14,394. Noted Jan. 8.

Calif., Los Angeles—Improving Yosemite Dr., from J. Farquhar, 5625 Lankersheim Blvd., $2,014; James St., from P. Reach, Los Angeles, $9,043; Woodbine St., from G. D. Nichols, P. O. Box 572, Inglewood, $6,358; Garver St., from P. F. Martter, 205 South Gramercy Pl., $16,003; Beacon St. between Santa Cruz and 4th Sts., from Chameet Constr. Co., Los Angeles, $62,370.

CONTRACTS AWARDED

Massachusetts — Dept. Pub. Wks., Div. Highways, Court House, Boston, bituminous macadam paving 21,012 ft. highway in Fitchburg and Westminster, to C. Bianci & Co., Framingham, $211,840. Noted Jan. 8.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., grading, etc., Beach Channel Dr., and constructing bulkheads, etc., to W. H. Gheoghegan Realty Co., 147 Remsen St., Brooklyn, $509,115. Noted Jan. 8.

Pa., Phila. — Bureau Highways, Dept. Pub. Wks., to R. B. Wenner, 2313 Walnut St., grading Clearview Ave. $1,235; to

Streets and Roads (Continued)

Union Paving Co., 30th and Locust Sts., asphalt paving Buckius Ave. $2,720, Magnolia Ave. $5,125, McMahon Ave. $4,188, 21st St. $3,448, asphalt repaving Wharton St. $24,-985; to Barber Asphalt Paving Co., 239 North 30th St., asphalt paving Cleveland, Colorado, Pollock, 17th and 18th Sts. $29,-538, Grays and 70th Sts. $17,597, Hope St. $1,676, asphalt repaving 18th St. $6,650; to Mack Paving & Contg. Co., Nicetown Lane and Luzerne St., asphalt paving Haworth and Pratt Sts., $15,087; to A. J. Henderson, 1314 Medary Ave., improving Springfield Ave., $1,577. Noted Jan. 29.

N. C., Rutherfordton — For 25 sq.yd. cement sidewalk, to Greenwood Concrete Co., Greenwood, S. C., $29,600.

Fla., Brooksville — Bond Trustees, O. Keathley, secy., vitr. brick paving, 26,000 sq. yd., various streets to Southern Paving and Constr. Co., Leesburg, excav. 0.50 per yd., paving, $2.19 per sq.yd. Noted Nov. 13.

Fla., Clearwater — Improving various streets, 82,000 sq.yd. paving, 46,000 lin.ft. curbing and guttering, 44,000 sq.yd. excav., and 26,700 sq.yd. sidewalks, to Southern Paving Constr. Co., Volunteer State Life Bldg., Chattanooga, Tenn., $263,250.

Fla., Palatka—C. Cauthorn, city clk., curbing, guttering and paving about 50,-000 sq.yd., various streets to T. B. Gillespie, Palatka, $138,000. Noted Dec. 11.

Fla., West Tampa—Paving with 2½ in. asphalt blocks 15,350 sq.ft. Francis Ave. and Cypress St., 30 ft., to W. L. Harwell, Tampa, $47,372, also 11,000 sq.ft., Armina and Cypress Sts., to Cone Bros., Tampa, $27,455.

Miss., Rolling Fork—Sharkey Co., grading, etc. 4.407 mi. Federal Aid Project 181-A, to Morrow & Burt, Gunnison, $18,-744. Noted Dec. 18.

La., Minden—City, grading, curbing and 1-2-3 mix rein.-con. paving various streets, to McGuire & Cavender, Minden, $83,060.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project)**, grading and bituminous macadam surfacing 8.56 mi. Woodbury-Warren Co. line Rd., 16 ft., incl. 2 bridges over 20 ft. span, F. A. P. 48-A, Cannon Co., to W. N. and A. L. Elrod, Murfreesboro, $266,223, 5.16 mi. Sequatchie Rd. to F. A. P. 72, incl. 1 bridge over 20 ft. span, S. A. P. 184, Marion Co., to Carter Constr. Co., Chattanooga, $153,540; grading and gravel surfacing 7.57 mi. Wayne Co. line to Sta. 399 plus 00, 16 ft., S. A. P. 187-A, Hardin Co., to Bearden & Scott, Iuka, Miss., $128,298, 0.5 mi. Gainsboro-Roaring River Bridge Rd., 20 ft., S. A. P. 135-C, Jackson Co., to H. H. Ruddell, Madisonville, Ky., $16,695; grading, chat and gravel surfacing 6.87 mi. Sorby-Hardin Co. line Rd., 16 ft., S. A. P. 186, Wayne Co., and grading and gravel surfacing 19.03 mi. Decatur-Hamilton Co. line Rd., 16 ft., S. A. P. 140-B, Meigs Co., to G. W. Guinn Co., Birmingham, Ala., $101,964 and $61,-064 respectively; grading, chat and gravel surfacing 15.17 mi. Paris-Kentucky State line Rd., S. A. P. 146-B, Henry Co., to S. E. Finley Co., 212 West North Ave., Atlanta, Ga., $101,761; grading 6.95 mi. Forbes-Kentucky State Line Rd., incl. 2 timber bridges over 20 ft. span, S. A. P. 188, Pickett Co., to Davis Constr. Co., Worthburg, $65,064. Noted Jan. 8.

Ill., Belleville—St. Clair Co. grading subway under Illinois Central tracks, to Keeley Bros. Constr. Co., East St. Louis, $6,560; paving 2.3 mi. New Athens-Belleville Rd., 18 ft., to Hoeffken Constr. Co., 222 West B St., $48,867.

Ark., Ft. Smith—Improving Paving Dist. 35, 18,040 sq.yd. 6 in. vibrolithic concrete surfacing, 7,000 cu.yd. excav., 690 ft. 12- to 18-in. vitr. clay pipe, etc., to Arkoma Co., Ft. Smith, $41,421. Noted Jan. 8.

Tex., Sulphur Springs—Hopkins Co. grading, gravel surfacing and bridging 7.8 mi. State Highway 1, State Aid Project 501-D, 16 ft. and 15.24 mi. State Highway 11, 26 ft., to D. Ward, Itasca, $48,704, and $65,629 respectively. Engrs. ests. $55,000 and $77,000 respectively. Noted Jan. 29.

Okla., Oklahoma City—Sheet asphalt surfacing with 2 in. sheet asphalt on 5 in. concrete 1,080 sq.yd. Lake Ave., to Western Paving Co., Tradesmens Natl. Bank Bldg., $5,390; with 6 in. concrete 3,700 sq.yd. Prospect Ave., to M. A. Swatek & Co., 519½ West Main St., $15.359. Noted Feb. 5.

California—Edwards Bros., contractors, Pacific Mutual Bldg., Los Angeles, sublet contract grading and crushed stone surfacing 10.8 mi. highway between Halfway and Dog Creek, Shasta Co., to Nevada Contr. Co., Fallon, Nev., for State Highway Comn., Sacramento. $400,905. Noted Jan. 15.

Calif., Inglewood—City Council, improving Centinela Ave. between Redonda and Eucalyptus Aves., 173,115 sq.ft. grading, 5,300 ft. curbs, 26,043 sq.ft. sidewalks, 131,-165 sq.ft. 6 in. concrete paving, etc., to J. L. McClain, 3452 West Slauson Ave., Los Angeles, $34,662. Noted Jan. 22.

Calif., Los Angeles—Improving Beverly Blvd., 131,554 sq.ft. Warrenite paving, 4,589 ft. curbing, 5,017 sq.ft. gutters, 11,229 sq. ft. sidewalks, 7,262 cu.yd. excav., etc., to Warren Constr. Co., 2221 East 25th St., $75,786.

Calif., Los Angeles—Supervs. Los Angeles Co. Improving Western Ave., to J. C. Backjord, 718 San Fernando Bldg., $29,325. Engrs. est. $37,844.

Calif., Los Angeles—Supervs. Los Angeles Co., improving 4.49 mi. Atlantic Ave., to Malcolm Bros., $41,006. Engrs. est. $63,405. Noted Jan. 1.

Buildings—Industrial

PROPOSED WORK

Mass., Boston — Repair and Service Garage—Gilbert & Levine, c/o S. S. Eisenberg, 46 Cornhill St., archt., having plans prepared 2 story, 80 x 100 ft., rein.-con., Vancouver St., and Huntington Ave., $100,000.

Mass., Cambridge (Boston P. O.)—Plant—Ginn & Co., 15 Ashburton Pl., Boston, having plans prepared 1 story, 40 x 100 ft., rein.-con., brick and steel addition. $40,000. J. R. Worcester Co., 79 Milk St., Boston, engrs.

Mass., Roxbury (Boston P. O.)—Foundry — Mechanics Iron Fdry. Co., H. E. Gibby, treas., 38 Kemble St., having plans prepared by E. W. Lawson, 6 Beacon St., Boston, 1 story, 105 x 150 ft., rein.-con., brick and steel, plain foundation, Kemble St. $75,000.

Mass., Woburn — Repair and Service Garage—Woburn Degreasing Co., rejected bids 1 story, rein.-con. and brick, Bedford St. $40,000. Private plans. Will readvertise. Noted Dec. 25.

R. I., Bristol—Manufacturing—Cranston Worsted Co., 180 Thames St., having plans prepared by Jenks & Ballou, 1035 Grosvenor Bldg., Providence, 5 story, 60 x 125 ft., brick and timber, Thames St. $250,000.

Conn., Meriden — Power House, etc. — Connecticut School for Boys, plans power house, kitchen, laundry, bakery and refrigerating building additions. $150,000. Engineer and architect not selected.

N. Y., Buffalo—Mill—Ralston—Purina Mills, Inc., 120 Prenatt St., plans chicken feed mill. To exceed $50,000.

N. C., Durham—Mill—Local Citizens plan cotton mill. $150,000. Chamber of Commerce interested.

Tenn., Chattanooga — Plant — Somerville Iron Wks. Co., North Chatta St., plans plant addition. $150,000.

Tenn., Kingsport — Chemical — Tennessee Eastman Kodak Corp., plans rein.-con. and brick addition. $500,000.

Fla., South Jacksonville (Ind. Br. Jacksonville)—Light Plant—See "Streets and Roads."

O., Cleveland—Factory, etc.—Perfeclite Co., c/o A. Sogg, archt., 3030 Euclid Ave., having plans prepared 2 story and basement, 80 x 150 ft., brick and steel factory and office building, East 40th St. $60,000.

Ind., Evansville—Storage—Holt & Brandon Ice & Cold Storage Co., plans brick and concrete addition, Walnut St. $160,000.

Ill., Centralia — Factory — Chamber of Commerce soon takes bids 3 story and basement, 48 x 200 ft., concrete and brick factory. Pennington-Gilbert Shoe Co., St. Louis, Mo., lessee. $85,000.

Wis., Milwaukee—Factory—J. Topzant, archt., 144 Oneida St., preparing plans 3 story, 72 x 120 ft., brick and steel addition, plain foundation, South Side. $60,000. Owner's name withheld.

Wis., Milwaukee—Plant—City, c/o Dept. Pub. Wks., R. E. Stoelting, comr., having plans prepared by C. E. Malig, City Hall, 1 story, 120 x 462 ft. central repair plant, brick and steel, plain foundation. $150,000.

Wis., Oakfield—Plant—Standard Lime & Stone Co., W. Titus, pres., plans 1 story, brick addition, plain foundation. $40,000. Engineer and architect not selected.

Tex., Amarillo—Mill—C. C. Littleton, Gainesville, soon takes bids 2 story mill, here. $150,000. Private plans.

Tex., Beaumont—Warehouse, etc.—Election Feb. 16, $225,000 bonds for warehouse, wharf improvements and railroad track, etc. R. C. Black, engr. Noted Jan. 29.

Tex., Colorado—Plant—West Texas Electric Co. having plans prepared 1 story and part basement, ice factory and cold storage plant. $75,000. Private plans.

Tex., Eastland—Plant—Consolidated Gasoline Co., making plans 2 story casinghead gasoline plant, brick and concrete. $300,000. Private plans.

Tex., Ft. Worth—Mill—Worth Cotton Mill Co., plans 3 story, brick and steel addition, plain foundation. $1,500,000. C. T. Main & Co., 200 Devonshire St., Boston, Mass., temporary engrs.

Tex., Memphis—Factory—Rosamond & Lokey making plans 2 story plant. $75,000. Private plans.

Tex., Mexia — Plant — Humphreys-Boyd Oil Co. making plans brick, concrete and steel plant. $150,000. Private plans.

Tex., San Angelo—Plant—Middlewest Utilities Co., 72 West Adams St., Chicago, making plans rebuilding ice plant, brick and concrete, here. $75,000. Private plans.

Tex., San Antonio—Plant—Nel-Stone Co. of Texas, 320 Fredericksburg Rd. (organized by J. Walsh and associates), plans plant. $100,000. H. L. Page, 204 Crescent St., engr.

Tex., Wharton—Plant—Texas Farm Bureau Fig Growers Assn. plans 4 fig plants. $110,000.

Okla., Frederick—Compress—R. A. Harrison takes bids about March 10, 1 story, concrete and timber cotton compress with 100,000 to 150,000 bales capacity on 12 acre tract. $160,000. Private plans. Noted Jan. 22.

Wash., Hoquiam—Plant—Harbor Plywood Co. plans fir veneer plant. $325,000.

Wash., Seattle—Factory—Doran Brass Fdry., 75 Horton St., plans 2 story, 70 x 100 ft., timber factory.

Calif., Hollywood—Factory—M. R. Gray Co., had plans prepared by Morgan, Walls & Clements, 1124 Van Nuys Bldg., Los Angeles, 1 story, 91 x 173 ft., brick and stucco, Seward and Romaine Sts.

Calif., Long Beach—Plant—J. H. Baxter & Co., 108 West 6th St., Los Angeles, plans creosoting plant on Long Beach Harbor front. To exceed $150,000.

Calif., Los Angeles—Plant—Lloyd and Casler, c/o W. D. Lee, archt., 401 Sun Bldg., having plans prepared 12 story and basement, 70 x 110 ft., rein.-con. textile plant, Maple and 8th Sts. $500,000.

Ont., Kincardine—Shop—Averys Garage & Auto Repair Shop, plans rebuilding shop recently destroyed by fire. $40,000.

BIDS DESIRED

Mass., Everett (Boston P. O.) — Manufacturing — Metropolitan Lithographing & Publishing Co., taking bids 3 story, 60 x 125 ft., rein.-con. and brick, Bow St. $100,000. W. P. Hatch, 60 State St., Boston, archt. Noted Jan. 29.

N. Y., Coney Island (Sta. Brooklyn)—Shop—Feb. 13, by Bd. Transportation, 49 Lafayette St., New York City, foundations for main repair shop, and other buildings, also enclosure of electrical shop, both in Coney Island Yard.

Pa., Phila. — Plant — Feb. 10, by Ballinger Co., archts., 12th and Chestnut Sts., 1 story and basement, 110 x 225 ft., rein.-con. and brick, plain foundation, Roberts and King Sts., for Atwater-Kent Mfg. Co., Wissahickon Ave. and Abbottsford Rd.

CONTRACTS AWARDED

Mass., Everett (Boston P. O.)—Manufacturing, etc.—J. F. Herne Co., 32 Cambridge St., Charleston, 4 manufacturing and 1 office buildings, 1 and 2 story, brick and tile, to Clark & Lee, 77 Summer St., Boston.

Mass., Monson — Plant — Rubber Wheel Co., Inc., will build 1 story 35 x 70 ft., rein.-con. addition, by day labor. Private plans.

R. I., Westerly—Factory—G. G. Moore, 3 story and basement, 60 x 154 ft., brick and steel, to H. Wales Lines Co., Meriden, Conn. Archts. est. $75,000.

Conn., Hartford — Warehouse — Rogers Sash & Door Co., 3 story and basement, 82 x 112 ft., brick and concrete, plain foundation, Sanford and Windsor Sts., to Lawrence & Co., 372 Trumbull St., about $60,000.

N. C., Pittsboro—Mill—Gould & Ziegler, (1st unit) 50 x 100 ft. silk mill, to O. Z. Barber, Goldston.

Ga., Atlanta—Bakery—McCormick Co., Inc., engrs., 121 South Nigley St., Pittsburgh, Pa., 3 story, 150 x 218 ft., and 127 x 144 ft., concrete, brick and steel, here, to Lundoff-Bicknell Co., B. F. Keith Bldg., Cleveland, O., for Stone Baking Co. Archts. est. $500,000.

Buildings—Industrial (Continued)

O., Lancaster—Factory—Hocking Glass Co., c/o T. J. Collins, pres., 1 story, 40 x 200 ft., brick, steel and concrete, to Austin Co., 16112 Euclid Ave., Cleveland. Archts. est. $60,000.

Ill., Salem—Factory—Brown Shoe Co., 1610 Washington Ave., St. Louis, Mo., 3 story and basement, 44 x 250 ft. and 65 x 90 ft. brick and concrete factory, here, to Dickie Constr. Co., Syndicate Trust Bldg., St. Louis, Mo.

Wis., Milwaukee — Factory — Warren Knitting Co., 517 Wright St., 1 story, 46 x 150 ft., brick and timber, plain foundation, 2nd St., to Wisconsin Bridge & Iron Co., North Milwaukee. Archts. est. $45,000.

Wis., Milwaukee—Shop, etc.—Globe Electric Co., 14 Keefe Ave., 4 story, 32 x 100 ft., brick and concrete shop and office building, plain foundation, Keefe Ave., to A. Breest, 1202 Lake St., Milwaukee.

Mo., St. Louis—Laundry—C. Todd Overall Cleaning Co., 713 Lynch St., 2 story, 45 x 59 x 80 ft., concrete and brick, 717 Lynch St., to W. C. Harting Co., International Life Bldg. Archts. est. $40,000.

Mo., St. Louis—Plant—Ornamental Wire Co., 2631 University St., will build 1 story, 69 x 86 ft., brick and concrete addition, 2908-12 Elliot Ave., by day labor.

Mo., Webster Groves — Plant — W. S. Barnickle Co., 937 Pacific Ave., 2 story, 67 x 106 ft., brick and concrete mixing house for chemical plant, to Ames & Ames, Webster Groves.

Tex., Palestine—Plant—S. L. Watts & P. Horton, Tyler, will build 1 story, 100 x 130 ft. ice, fuel and cold storage plant, brick and steel, plain foundation, here, by day labor. $45,000. Private plans.

Calif., Beverly Hills—Plant—Globe Ice Cream Co., 230 West Jefferson St., Los Angeles, will build 1 story, rein.-con., Alpine Dr., by day labor, under supervision of J. Hausfelder, company engineer. $225,000. Noted Aug. 28.

Calif., Los Angeles—Factory—Goodwin Co., 625 South Eastlake Ave., 1 story, 32 x 84 ft., timber and plaster, Marengo Ave., to R. Roberts, 5249 Loleota St., Eagle Rock.

Calif., Monrovia—Factory—Colby Management Corp., 1 story, 300 x 300 ft., rein.-con. and steel, Monrovia St., to Austin Co. of California, 777 East Washington St., Los Angeles, $45,000.

Calif., San Francisco — Factory — Globe Electric Wks., 2 story, rein.-con., Mission and 15th Sts., to K. E. Parker Co., Clunie Bldg., $47,000.

Buildings—Commercial

PROPOSED WORK

Me., Augusta—Hotel—Weaver's Restaurant, Water St., having plans prepared by Bunker & Savage, Augusta Trust Bldg., 6 story and basement, brick addition. $150,000.

N. H., Concord—Bank and Office—New Hampshire Savings Bank, North Main St., having sketches made by J. D. Leland Co., 41 Mt. Vernon St., Boston, Mass., 5 story and basement, brick, North Main St. $150,000.

N. H., Laconia—School—State School for Feeble Minded, plans school addition. To exceed $150,000. Engineer and architect not selected.

Mass., Allston (Boston P. O.)—Garage—Seavey Realty Trust c/o B. S. Brown, engr., 65 Franklin St., plans 2 story, 120x180 ft. rein.-con., 7-11-15 Scottfield Rd., here, $150,000.

Mass., Brookline (Boston P. O.)—Apartment—Marden & Orlando Constr. Co., 333 Washington St., Boston, plans 8 story and basement, brick and limestone, St. Paul and Beacon Sts. $200,000. Engineer and architect not selected.

Mass., Boston—Commercial—J. M. Howe, 10 State St., having sketches made by R. H. Doane, 162 Newbury St., 2 or more story and basement, brick, Stuart and Tremont Sts.

Mass., Boston—Garage—J. M. Howe, 10 State St., having sketches made by R. H. Doane, 162 New Bury St., 6 story, 27,000 ft. floor space, rein.-con. and steel, Bowdoin Sq., Cambridge and Green Sts. $1,500,000. Noted Jan. 29.

Mass., Boston — Hotel — Park Sq. Hotel Corp., c/o T. M. James, archt., 3 Park St., having preliminary plans prepared, 16 story and basement, 5,900 sq.ft. floor space, rein.-con., brick, limestone and terra cotta, Park Sq., Warrenton, Carver and Stuart Sts.

Mass., Boston—Office and Store—Haines Furniture Co., 730 Washington St., C. Canner, treas., plans 14 story and basement, rein.-con., brick and stone, Kneeland and Washington Sts. To exceed $150,000. Engineer and architect not selected.

Mass., Boston—University—Boston University, Women's Graduate Com., 688 Boylston St., raising $250,000 funds for university building. Engineer and architect not selected.

Conn., Bridgeport—Apartment—W. F. Chatlos, Broad St., Stratford, takes bids about March 1, 6 story and basement, 80 x 110 ft., brick, steel and stone, Golden Hill. $350,000. J. W. Northrop, 211 State St., archt. Noted Jan. 5.

Mass., Brookline (Boston P. O.)—Store and Office—D. Rubin, 333 Washington St., Boston, having plans prepared by S. S. Eisenberg, 46 Cornhill St., Boston, 3 story or more, rein.-con., brick and stone, Commonwealth Ave., here. $150,000.

Mass., Cambridge (Boston P. O.) — Apartment—Mather Court Apartments, c/o Newhall & Blevens, archts., 9 Park St., Boston, having plans prepared 6 story and basement, rein.-con. and brick, Waterhouse St.

Mass., Cambridge (Boston P. O.)—Apartment—E. W. Wyner, 18 Tremont St., Boston, having plans redrawn by G. N. Jacobs, 4 Park St., Boston, 5 or more probably 10 story, 86 x 118 ft., brick and stone, Holyoke and Mt. Auburn Sts., here. $400,000. Noted Jan. 15.

Mass., Cambridge (Boston P. O.)—Theatre—College House Trust, c/o C. A. Newhall, 73 Tremont St., Boston, having sketches made by Mowll & Rand, 21 School St., Boston, 1 story, 50 x 100 ft., brick, steel and stone, Harvard Sq. $150,000.

Mass., Grafton — Schools — School Com., having preliminary sketches made by Brainard & Leeds, 85 Franklin St., Boston, 1 new school and 2 additions. $150,000.

Mass., Leominster — High School — School Com., plans high school. $350,000.

Mass., Leominster—School—St. Cecilia French Catholic Society, J. E. Chicoine, pastor, plans rebuilding school recently destroyed by fire. $150,000 or more. Engineer and architect not selected.

Mass., Lynn—Apartment—F. Ragosa, 36 Whitney St., having sketches made by B. E. Porter, 73 Tremont St., Boston, 5 story and basement, brick and stone, Ocean St. $150,000.

Mass., Lynn—Apartment—J. Schmishkiss & W. Somers, 125 Monroe St., plan 4 story, brick and stone, Washington St. $200,000. Engineer and architect not selected.

Mass., Malden—Theater, Store and Office—S. Spector, 24 York Terrace, Dorchester, plans theater, store and office building, 100,000 sq.ft. floor space, Malden Sq. here. Engineer and architect not selected.

Mass., Middleboro — High School — Superintendent Schools, plans brick and stone high school. $150,000 or more. Engineer and architect not selected.

Mass., Northampton — School — Supt. Schools, having sketches made by K. S. Putnam, 78 Main St., brick school. $150,000-$200,000.

Mass., Pittsfield—Bank—Sweeney & Farrell Corp., c/o G. E. Haynes, archts., 184 North St., Pittsfield, takes bids about Feb. 6, altering 4 story and basement, 50 x 125 ft., brick and steel, North St. $200,000.

Mass., Quincy (Boston P. O.) — High School — O. A. Barbour, Mayor, plans Junior High School East Squantum and Hancock Sts., Atlantic Section. $400,000. Engineer and architect not selected.

Mass., Roxbury (Boston P. O.)—Social—Owner, c/o H. Levi, 602 Commonwealth Ave., Boston, having plans prepared by McLoughlin & Burr, 88 Tremont St., Boston, 3 story and basement, brick and stone, Longwood St., here. $150,000.

Mass., Springfield—Mausoleum-Hillcrest Cemetery Corp., Parker St., having plans prepared by S. M. Green Co., 293 Bridge St., mausoleum on Parker St. $500,000. Noted Oct. 9.

Mass., Springfield—Store and Office—H. B. Robinson, Inc., 25 Harrison Ave., having plans prepared by B. H. Seabury Co., 21 Bease Pl., 3 story, brick, Harrison Ave. $180,000.

Mass., Wareham—Bank—Wareham Natl. Bank, c/o J. W. Beal & Sons, archts., 64 Summer St., Boston, having plans prepared bank, Main St. $150,000.

Mass., Watertown—Church and Community House—Union Church, J. W. Barnett, pastor, 8 Newall Rd., Needham, raising $200,000 funds for brick church and community house, Main St., here. Engineer and architect not selected.

Mass., Watertown—Library—C. F. Snow, chn. City Building Com., 62 Langdon Ave., plans branch library in East End Section. $150,000. Engineer and architect not selected.

R. I., Pawtucket—Store and Apartment—A. H. McCarthy, c/o O'Malley, Fitzsimmons Co., archts., Fanning Bldg., having preliminary sketches made for 3 story store and apartment building, Smith St. $250,000.

Conn., Greenwich—Theatre—Loew's Inc., Bway. and 45th St., New York City, having plans prepared by T. W. Lamb, 644 8th Ave., New York City, brick, steel and stone, plain foundation, here. $500,000.

Conn., New Haven — Y. W. C. A., 568 Chapel St., having plans prepared by W. F. Thompson, 342 Madison Ave., New York City, for building $250,000.

Conn., Storrs—College, etc.—Connecticut State Agriculture College, State House, Hartford, plans college and dormitory, here. $570,000.

Conn., Wallingford — Library — Choate School, G. C. St. John, head master, having plans prepared by E. P. Mellon, Pittsburgh, Pa., 3 story and basement, 45 x 140 ft., brick and steel library. $350,000.

N. Y., Albany—High School, etc.—State College for Teachers, Western Ave., had plans prepared by S. W. Jones, state archt. group of buildings incl. high school, auditorium and study hall, Western Ave. $800,000.

N. Y., Buffalo — Mercantile — H. D. Taylor Co., 101 Oak St., plans 6 story, 75 x 100 ft. mercantile building, Oak St. $225,000. Engineer and architect not selected.

N. Y., Hempstead—Theatre—Calderone Theatrical Corp., c/o H. G. Wiseman, engrs. and archts., 25 West 43rd St., New York City, plans brick, steel and stone, plain foundation, Main and Columbia Sts. $450,000.

N. Y., New York—Apartment—Townsend, Steinle & Haskell, archts., 8 West 40th St., preparing plans 69 x 92 ft., brick and stone, plain foundation, 35 West 9th St. $650,000. Owner's name withheld.

N. Y., New York — Lighthouse — New York Assn. for Blind, 111 East 59th St., had plans prepared by R. Hunt, 28 East 21st St., for wing addition. $150,000.

N. Y., New York City—Loft—M. Rosenthal, c/o M. Whinston, 116 West 39th St., archt., having plans prepared 16 story, 50 x 100 ft., brick and stone, plain foundation, 443 6th Ave. $1,000,000.

N. Y., New York — Loft — Long Beach Operating Co., c/o Shampan & Shampan, 189 Montague St., Brooklyn, having plans prepared 18 story, 100 x 100 ft., brick, steel and stone, plain foundation, West 37th St. $900,000.

N. Y., New York — Theatre — Ninety-Eighty-One Hundred and Eight Ave. A Corp., c/o H. G. Wiseman, archt. and engr., 24 West 43rd St., having plans prepared 75 x 98 ft., brick and stone, plain foundation. $200,000.

N. Y., New York—Theatre—One Hundred and Five 2nd Ave., Inc., c/o H. G. Wiseman, archt. and engr., 25 West 43rd St., having plans prepared brick, steel and stone, plain foundation, 105 2nd Ave. $400,000.

N. Y., White Plains — Hotel — Gedney Farms Hotel Co., c/o K. M. Murchison, archt. and engr., 101 Park Ave., New York City, having plans prepared brick and stone hotel, plain foundation, here. $500,000.

N. J., Asyla (mail Grenloch)—Hospital, etc. — Freeholders Camden Co., Court House, Camden, having plans prepared hospital addition $495,550, corridor $51,304, nurses and attendants home $135,256, reconstructing and adding heating to present building $41,393, reconstructing and adding plumbing $40,693, alms house $174,900, infirmary $151,580, isolation corridor $32,648. F. H. Schaeffer, Temple Bldg., Camden, engr. W. W. Sharpley, 225 Washington Sq., Phila., Pa., archt.

N. J., New Brunswick — Dormitory — Rutgers College, College Ave., had plans prepared by York & Sawyer, 50 East 41st St., New York City, John Rogers Hagaman dormitory. $200,000. Noted Jan. 17.

Pa., Altoona—Station and Depot—Pennsylvania R.R. Co., Broad Ct. Sta., Phila., having plans prepared by W. H. Cookman, c/o owner, 2 story and basement, 120 x 140 ft., brick, steel, rein.-con. and stone station and depot, here. $3,500,000.

Buildings—Commercial (Continued)

Pa., Phila.—Bank—Market St. Title & Trust Co., 52nd and Market Sts., having plans prepared by W. L. Blithe, 608 Chestnut St., 2 story and basement, 24 x 214 ft., brick and steel addition, plain foundation. $200,000.

Pa., Point Marion—School—Bd. Educ. having plans prepared by H. Waltman, Fayette Title & Trust Bldg., Uniontown, 2 story and basement, brick and tile. $150,000.

Pa., Wilkinsburg—Church—Wilkinsburg Baptist Church having plans prepared by T. Hannah, Publication Bldg., Pittsburgh, altering and constructing 2 story and basement, stone or granite addition, Wallace and Center Sts. $230,000.

Pa., Williamsport—Hotel and Theatre—F. E. Plankenkorn and Chamberlain Amusement Co., 226 West 4th St., plan 5 story and basement, 110 x 150 ft., rein.-con., brick and steel, 4th St. $400,000. Noted Nov. 13.

D. C., Wash. — Church — St. Albans Cathedral 3005 Wisconsin Ave. N. W., having plans prepared by Frohman, Robb & Little, 24 Mt. Vernon St., Boston, Mass., and takes bids in spring for an addition. $10,000,000.

D. C., Wash.—Museum and Art Gallery—Regent Smithsonian Institute, 10th and B Sts., Wash., D. C., had plans prepared by C. A. Platt, 101 Park Ave., New York City, museum and art gallery on the Mall between 8th and 9th Sts. $6,000,000. Noted Mar. 20.

Va., Richmond—Hotel—The Hockenbury System, M. G. Holtzman, representative, and O. J. Parrish, pres. Broad Street Bank, plans 8 story, 180 room hotel in central part of city. $1,000,000. Engineer and architect not selected.

Va., Salem — Orphanage — Lutheran Church South, plans new building at its orphanage. $200,000. J. Kellenberger, Greensboro, N. C., interested.

N. C., Charlotte — Store — W. H. Belk, Hawthorne Lane, c/o Belk Bros., plans two store wings one 5 story and basement 71 x 300 ft. on Trade St., and other 3 story and basement, 100 x 130 ft. on College St. $750,000. Engineer and architect not announced.

N. C., Chimney Rock — Hotels — See "Dams."

N. C., Greensboro—Y. M. C. A. having plans prepared by H. Barton, Greensboro, 4 story, brick and steel. $250,000.

N. C., High Point—Hospital—Plans election $250,000 bonds for hospital.

Fla., Jacksonville — Schools — Bd. Pub. Instruction, Duval Co. election Feb. 24, $2,500,000 bonds for schools. F. A. Hathaway, supt.

Fla., Tampa — Bank and Office — First Natl. Bank, 416 Franklin St., having plans prepared by Holmes & Winslow, 134 East 44th St., New York City, remodeling and constructing 10 story, 50 x 140 ft., Franklin and Madison Sts.

Fla., West Palm Beach—Hotel—L. W. Tuller, Tuller Hotel, Detroit, Mich., having plans prepared by L. Kamper, Kamper Bldg., Cass Ave., Detroit, Mich., 14 story and basement, rein.-con., brick and stucco, plain foundation, here. $2,000,000.

Miss., Jackson—Office—Standard Oil Co. of Kentucky, J. Dodson, dist. mgr., Jackson, making preliminary plans rein.-con., brick and stone, Amite and North State Sts. $150,000.

La., Winnsboro — School — School Bd. plans rebuilding concrete and brick school, recently destroyed by fire. $200,000. M. A. Bardwell, supt.

Tenn., Nashville — Bank and Office — American Trust Co., 235 3rd Ave. N., P. D. Houston, pres., plans probably 13 or 15 story, 47 x 104 ft., rein.-con., brick and steel, 3rd and Union Sts. $800,000.

O., Akron—Temple—North Hill Masonic Temple Co., plans 2 story and basement, North Hill. $150,000.

O., Cleveland—Apartment—Epstein Bros., 9203 Yale Ave., had plans prepared by L. R. Walker, 1900 Euclid Bldg., 3 story and basement, 74 x 94 ft., brick and timber, Chapman and Elderwood Aves. $150,000.

O., Cleveland — Commercial — Syndicate, c/o C. P. Orth, 2838 West 25th St., plans brick commercial building Euclid Ave., and Bliss Rd. $200,000. Engineer and architect not selected.

O., Cleveland — Hospital — St. Alexis Hospital, c/o Mother Superior, Bway., had plans prepared by G. S. Rider & Co., Century Bldg., 4 story and basement, 50 x 145 ft., brick, steel and concrete addition, Bway. and McBride Ave. $200,000.

O., Cleveland—Store, Office and Garage—M. C. and I. N. Stone, 1204 Guardian Bldg., having plans prepared by Morris & Weinberg, 3608 Euclid Ave., 1 and 2 story, 33 x 80 ft., with 20,000 sq.ft. floor space in garage, brick and steel, East 12th St. and Superior Ave. $150,000.

O., Dayton — School — Bd. Educ., Steel High School Bldg., having plans prepared by Pretzinger & Musselman, archts., 1155 Reibold Bldg., 2 story, Germantown St. about $250,000, also plans prepared by Herman & Brown, 1129 Reibold Bldg., 2 or 3 story, Junior High School, Huffman St., both rein.-con. and brick. $300,000.

O., East Cleveland (Cleveland, P. O.)—Apartment—I. and B. Dolinsky, 2216 East 83rd St., had plans prepared by A. F. Janowitz, 811 Prospect Ave., 3 story and basement, 40 x 74 x 96 ft., brick, Chapman Ave. $150,000.

O., Fairview—School—Bd. Educ., R. P. Jordan, clk., having plans prepared by Fulton & Taylor, 8120 Euclid Ave., 2 story and basement, 78 x 164 ft., brick, steel and concrete school. $200,000. Noted Nov. 30.

O., Rocky River—High School, etc.—Bd. Educ., K. K. Hastings, pres., plans 3 story, brick, steel and concrete school, also athletic field. $400,000. Engineer and architect not selected.

Mich., Detroit — Church — Westlawn Methodist Episcopal Church, H. G. Werner, pastor, having plans prepared by Stahl & Kinsey, 628 McKerchey Bldg., 2 story and basement, about 60 x 110 ft., concrete, brick, steel and stone, Ohio Ave. $150,000.

Mich., Detroit—High School—Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcolmson & Higginbotham, 1217 Griswold St., rein.-con., brick and steel addition, plain foundation, Owen Ave. $275,000.

Mich., Detroit—Library—Detroit Library Comn. plans 2 or more 2 story and basement, rein.-con., brick and steel regional libraries, plain foundations. $200,000. Engineer and architect not selected.

Mich., Redford—Schools—Bd. Educ. having plans prepared by Verner, Wilhelm & Molby, 751 Book Bldg., Detroit, five 2 story rein.-con., brick and steel schools, in Dist. 1. $850,000 bonds approved.

Ill., Naperville — Church — St. Peter & Paul Roman Catholic Congregation, B. Schuette, pastor, having preliminary plans prepared by H. Gaul, 228 East Superior Ave., Chicago, 2 story and basement, 100 x 150 ft., concrete, brick and stone. $225,000.

Wis., Milwaukee—Apartment—Park Investment Co., c/o M. Peters, 765 Sherman Blvd., having plans prepared by M. Tullgren & Sons Co., 425 East Water St., 3 story and basement, brick and tile, plain foundation, Lisbon Ave. $150,000.

Wis., Milwaukee—Garage—H. W. Voelz, archt., 373 Bway., preparing plans 3 story and basement, 90 x 120 ft., brick and concrete, plain foundation, East Side. $150,000. Owner's name withheld.

Wis., Milwaukee—Refectory and Hospital—Concordia College, 3127 State St., having plans prepared by R. Messmer & Bros., 221 Grand Ave., 3 story, brick and concrete, plain foundation, State St. $150,000.

Wis., Milwaukee—Theatre and Business—A. H. Bartelt, 1340 8th Ave., having plans prepared by A. H. Kienappel, 445 Milwaukee St., 2 story and basement, brick and concrete, plain foundation, 8th Ave. $160,000.

Ia., Corning—School—Plans new election $175,000 bonds for 2 story and basement, concrete and brick school, for Bd. Educ. Thomas, McLennan & Thomas, 527 West 27th St., Des Moines, Ia., archts. Noted Jan. 29.

Ia., Des Moines—Warehouse and Office—International Harvester Co. of America, 606 South Michigan Ave., Chicago, making preliminary plans 5 story and basement, 90 x 150 ft., brick and concrete, Court and East 7th Sts., here. W. D. Price, supt.

Ia., Marengo—School—Voted $150,000 bonds for school. D. Gode, secy. Bd. Educ. Noted Jan. 8.

Minn., St. Paul—Warehouse and Garage—Tri-State Telephone & Telegraph Co., 369 Cedar St., having plans prepared by Mather & Fleishbein, 442 Endicott Bldg., 3 story and basement, rein.-con. and brick, 10th St. $150,000.

Kan., Ft. Scott—Auditorium—City soon takes bids 2 story and basement, 120 x 150 ft., rein.-con., brick and stone auditorium. $175,000. W. T. Schmitt, 1634 West 10th St., Oklahoma City, Okla., archt. Noted Dec. 4.

Kan., Hiawatha—Court House and Jail—Brown Co. takes bids about March 15, 3 story, 88 x 104 ft. court house, and 3 story, 32 x 58 ft. jail, both rein.-con., brick and stone. $350,000. W. E. Hulse & Co., Stamey Hotel Bldg., Hutchinson, archts. Noted Jan. 15.

S. D., Redfield—Court House—Spink Co., plans 3 story and basement, rein.-con. and brick court house. $270,000. Engineer and architect not announced.

S. D., Sioux Falls — Hospital—Lutheran Hospital Assn., T. M. Erickson, dir., plans 3 story and basement, rein.-con., brick and stone, 18th St. and Minnesota Ave., $150,000. Engineer and architect not announced.

Mo., Kansas City—Theatre and Office—E. J. Willet, 806 Lathrop Bldg., soon takes bids 12 story and basement, 76 x 160 ft., rein.-con., brick, stone and terra cotta, Bway. and Valentine Rd. R. Gornall, 203 Bruening Bldg., archt.

Mo., St. Louis — Church — Compton Heights Christian Church, c/o J. C. Coll, 2800 St. Vincent St., pastor, plans 2 story and basement, brick, concrete and stone, Grand and Flora Sts. $150,000.

Mo., St. Louis — Office — Syndicate of Dentists, c/o St. Louis Dental Society, making preliminary plans 10 or 12 story and basement, brick, stone, steel and concrete, 14th and Olive Sts.

Ark., Little Rock—Hospital—State having preliminary plans prepared 3 story, brick, concrete and stone hospital, here. $500,000.

Tex., Galveston—Warehouse—Wiley & Nicholas Co., 518 35th St., c/o E. Eggers, supt., plans 1 or 2 story, 250 x 400 ft. warehouse, Ave. F. $200,000. Engineer and architect not selected.

Tex., Marshall—Dormitory—Wile University of Colorado, c/o president, having plans prepared by J. Carpenter, Marshall, 4 story and basement, 60 x 170 ft., rein.-con. and brick, plain foundation. $150,000.

Tex., Temple—Hospital—Gulf Colorado & Santa Fe Ry., Temple, soon takes bids 3 story and part basement addition, brick and stone, plain foundation. $150,000. Private plans. Noted Dec. 25.

Tex., San Antonio—Hotel—H. T. Phelps, archt. and engr., Hicks Bldg., soon lets contract 7 story and part basement, rein.-con., brick and stone, plain foundation, Nacagdoches and Crockett Sts., for Order of Odd Fellows, c/o Crockett Hotel. $150,000.

Okla., Guthrie — Hospital — Methodist Episcopal Church South, 19th and Werner Sts., voted $200,000 bonds for 3 story and basement church on Harrison St. Engineer and architect not selected. Noted Nov. 27.

Okla., Hollis—Court House—Harrison Co. plans election March 10, to vote $175,000 bonds for 2 story and basement, 80 x 150 ft., rein.-con. and brick, plain foundation, Jackson St. Engineer and architect not announced. H. H. Smith, city clk.

Okla., Oklahoma City—Apartment—G. T. Blankenship, Braniff Bldg., having preliminary plans prepared by Hawk & Parr, Cotton Exch. Bldg., 10 story and basement, 100 x 150 ft., rein.-con. and brick, plain foundation, Robinson St. $1,000,000.

Wash., Everett — Office — A. A. Gaston takes bids about March 19, 6 story, 48 x 120 ft., rein.-con. with brick or terra cotta facing. $165,000.

Calif., Beverly Glen (Los Angeles P. O.)—School—Elliott School for Girls, 1302 South Gramercy Pl., Los Angeles, having plans prepared by C. H. Kyson, 6034 Hollywood Blvd., Los Angeles, 1 and 2 story, rein.-con., Wilshire Blvd. $350,000.

Ore., Corvallis—Theatre, etc.—State of Oregon Agricultural College having plans prepared by L. A. Thomas, U. S. Natl. Bank Bldg., Portland, theatre, memorial hall, etc., on campus. $200,000.

Calif., Eureka—Hotel—Interests represented by Chamber of Commerce, having preliminary plans prepared by N. Ackerman, Eureka, approximately 4 story, brick and concrete, F and 2nd Sts. $150,000.

Calif., Long Beach—Apartment—Davies & Lockridge, archts., Farmers & Merchants Bank Bldg., preparing preliminary plans approximately 12 story, Class A construction, East Ocean Blvd. $1,000,000. Owners name withheld.

Calif., Los Angeles—Hotel—Business District Development Co., Merchants Natl. Bank Bldg., had plans prepared by C. F. Whittlesey, 6533 Hollywood Blvd., and soon takes bids 6 story, 48 x 212 ft., Class A construction, Cahuenga Ave. $150,000 or more.

Calif., Los Angeles—Terminal and Office—Schultze & Weaver, archts., Pacific Mutual Bldg., take bids about Feb. 25, terminal and office building, Hill St., for Subway Terminal Corp., c/o archts., $2,000,000. Noted Jan. 29.

Buildings—Commercial (Continued)

Calif., Oakland—Home—Y. W. C. A., 21st St. and Telegraph Ave., purchased site and plans brick and rein.-con. boarding home, Harrison St. $250,000.

Calif., San Francisco—Theater, Store and Office—W. B. Wagnon, 325 Bush St., purchased site and plans Class A construction, Market St. near Hyde St. $3,000,000 or more. A. Pantages, Pantages Theater Bldg., lessee.

Calif., Santa Monica—Parish House—St. Monicas Parish having plans prepared by A. C. Martin, 228 Higgins Bldg., Los Angeles, 1 story, stucco, stone, brick or hollow tile, Santa Monica Ave. $150,000.

Calif., Yreka—Hospital and Jail—Siskiyou Co. plans hospital and jail. $150,000 or more funds probably raised through bond issue.

Ont., Ottawa—Vestry—Ottawa Roman Catholic Diocese, St. Patrick St., plans new vestry in connection with Ottawa Basilica, Sussex St. $250,000.

Ont., Pembroke—High School—School Bd. takes bids in spring, 2 story and basement, 14 room, rein.-con. and brick, plain foundation, Isabella Ave. $150,000. Engineer and architect not selected.

Ont., Toronto—Hospital—Western Hospital, Bathurst St., soon takes bids 3 story and basement, rein.-con., brick and steel addition, plain foundation. $250,000. E. J. Lennox, 364 Bay St., archt.

B. C., Vancouver—Store—Woodwards Ltd., Hastings and Abbott Sts., takes bids about March 1, 6 story and basement, 87 x 152 ft. rein.-con., brick and tile, Cordova and Abbott Sts. $400,000. W. T. Whiteway, Dominion Bldg., archt. P. P. Brown, 410 London Bldg., engr.

BIDS DESIRED

N. H., Milford—School—Bd. Selectmen taking bids 2 story and basement, 70 x 150 ft., brick and stone school. $150,000. Mulhall & Holmes, 33 Newbury St., Boston, Mass., archts. Noted Jan. 15.

Mass., Boston—Bank—Feb. 9, by Boston Five Cent Savings Bank, 24-32 School St., 10 story and basement, 80 x 130 ft., rein.-con., brick and steel, $1,000,000. Parker, Thomas & Rice, 177 State St., archts. Noted Oct. 9.

Mass., Boston—Club—University Club, J. W. Powell, pres., 24 Federal St., taking bids, 4 and 6 story and basement, brick and limestone, plain foundation, Stuart St., and Trinity Pl. $1,750,000. Monks & Johnson, 99 Chauncy St., archts. Noted Dec. 4.

Mass., Boston—Garage—H. I. Shackley, 582 Massachusetts Ave., taking bids 4 story, 70,000 sq.ft. floor space rein.-con. and brick, plain foundation, 18-20 Deerfield St. $250,000. Mulhall & Holmes, 33 Newbury St., archts. Noted Jan. 1.

Mass., Chelsea — Club — Chelsea Council Knights of Columbus Bway., taking bids remodeling 4 story, brick club house, 220 Bway. $150,000 or more. J. M. Gray Co., 175 High St., Boston, archts., Noted Jan. 1.

Mass., Springfield—School—City Property Com., taking bids Bowles School, 2 story and basement, 60 x 158 ft., rein.-con., brick and steel, plain foundation. $150,000. M. W. Maloney, 23 Pearl St., archt. Noted Jan. 8.

Conn., Hartford — Business — Rosen & Kanter, 995 Main St., taking bids 1 story and basement, 130 x 150 ft., brick and limestone, Farmington Ave. $125,000-$150,000. Whiton & McMahon, 36 Pearl St., archts.

Conn., Hartford—Store and Apartment—B. Golden, 528 Windsor Ave., taking bids 4 story and basement, 54 x 115 ft., rein.-con., brick and stone, Windsor Ave. and Nelson St. $150,000. G. Zunner, 230 Quaker St., South Hartford, archt.

Conn., Stamford—School—Feb. 14 by L. A. Walsh, archt., 51 Leavenworth St., Waterbury, 3 story and basement, 60x120 ft., brick and stone, plain foundation, Strawberry Hill, here, for Sisters of St. Joseph, 210 Strawberry Hill. $250,000. Noted Jan. 8.

Conn., Waterbury—School—St. Josephs Roman Catholic Church, taking bids superstructure 2 story and basement, 70 x 130 ft., brick and stone, John St. $150,000. O'Connell & Shaw, 18 Boylston St., Boston, Mass., archts. Noted Aug. 21.

N. Y., Hudson—Training School—Mar. 5, by Superintendent Purchase, Capitol, Albany, reconstruction of Industrial Building at New York State Training School for Girls, here; adv. E. N.-R. Feb. 5.

New Jersey—Schools—Feb. 21, by Hopewell Twp. School Bd., Hopewell, constructing 2 schools, one at Hopewell, and one at Pennington. $255,000. J. O. Hunt, 219 East Hanover St., Trenton, archt. Noted Jan. 29.

Pa., Germantown (Phila. P. O.)—Hospital—Feb. 20, by A. H. Brockie, archt., 254 South 15th St., Phila., 5 story and basement 45 x 155 ft., 49 x 77 ft. and 55 x 167 ft., brick and steel, plain foundations, for Germantown Dispensary & Hospital, Wistar and Penn Sts.

Pa., Phila.—Apartment—Feb. 20, by L. B. Rothschild, archt., 215 South Broad St., 12 story and basement, 40 x 170 ft., brick and steel, plain foundation, 17th and Walnut Sts., for Seventeenth & Walnut St. Corp., c/o architect.

Pa., Shamokin — School — Feb. 18, by School Bd., 2 story and basement, 83 x 142 ft., brick and steel, plain foundation, in Coal Twp., Northumberland Co. A. Reilly, Burnett Bldg., Wilkes Barre, archt.

D. C., Wash.—Dormitory—Amer. University, Nebraska and Massachusetts Ave. N. W., taking bids for womens dormitory. $260,000. C. P. Anderson, Southern Bldg., archt.

D. C., Wash.—Hotel—Washington Modern Homes Co., 816 15th St. N. W., taking bids commercial hotel, 10th and E Sts. $1,000,000. J. W. Kearney, 1421 F St. N. W., archt.

D. C., Wash—Office—W. F. Dennis, 1530 K St. N. W., taking bids office building, 14th St. between K and L Sts. N. W. $300,000. R. P. Clark, Jr., 816 14th St., archt.

O., Bambier—Science—Feb. 11, by A. Garfield, archt., Natl. City Bldg., Cleveland, 3 story and basement, 83 x 123 ft., brick, steel and concrete, science building, here, for Kenyon College. $150,000. Clark, MacMullen & Riley, Marion Bldg., Cleveland, mechanical engrs. Noted July 10.

O., Bremen—High School—Feb. 27, by Bd. Educ., D. S. Miller, clk., 2 story and basement, 148 x 150 ft., rein.-con. and brick high school. $150,000. F. J. Porter, 1934 Summit St., Columbus, archt. Noted Nov. 20.

O., Mansfield—School—Feb. 14, by Bd. Educ., 2 story and basement, 100 x 115 ft., rein.-con. and brick, known as Richland Co. School. $160,000. Althouse & Jones, Mansfield, archts.

Mich., Detroit—School—Feb. 16, by C. A. Gadd, business mgr. Bd. Educ., 1354 Bway., Burroughs School, 2 story and part basement, rein.-con., brick and steel, plain foundation, Centerline Ave. $300,000. Malcomson & Higginbotham, 1217 Griswold St., archts.

Ill., Freeport—School—March 17, by E. Graham, secy. Bd. Educ. for School Dist. L. 145, Stephenson Co., 3 story and basement, concrete and stone school, $450,000. Royer, Danely & Smith, Urbana, archts. Noted Dec. 11.

Wis., Rhinelander—High School—Feb. 26, by Bd. Educ., A. Moe, clk., (1st unit) Junior High School, 2 story and basement, brick, tile and concrete, plain foundation. Total $400,000. Smith, Reynolds & Bryandt, Dempsey Bldg., Monitowoc, archts.

Kan., Kansas City—Bank and Office—Hoggson Bros., archts. and engrs., First Natl. Bank Bldg., Chicago, Ill., will build 7 story and basement, 75 x 114 ft., rein.-con., brick, stone and terra cotta. Minnesota and 6th Sts. for Commercial Natl. Bank, 553 Minnesota Ave. Work will be done by separate contracts. $500,000.

Mo., Kansas City—Church—First Baptist Congregation, D. J. Evans, pastor, taking bids remodeling present building and constructing new 2 story and basement, 160 x 175 ft., native stone and concrete, Linwood Blvd. between Olive and Park Sts. $600,000. J. H. Felt & Co., 800 Grand Ave. Temple, archt.

Mo., Jefferson City—High School—Feb. 18, by Bd. Educ., W. T. Carrington, secy., 3 story and basement, 115x190 ft., brick, stone and rein.-con. $250,000. Owen, Payson & Carswell, 505 Interstate Bldg., Kansas City, archts.

Mo., St. Louis—Union Halls, etc.—Carpenters Dist. Council, 3024 Olive St., will build 2 story and basement, 120 x 125 ft., rein.-con., brick and terra cotta union halls, stores, etc., Grand Blvd. and Cozens Ave. $260,000. Work will be done by separate contracts under supervision of P. J. Bradshaw, archt. International Life Bldg.

Tex., San Antonio—Hotel—J. M. Nix & Co., c/o Travis Bldg., taking bids and opens same about Feb. 15, 8 story and part basement, 60 x 90 ft., rein.-con., brick and stone, plain foundation, St. Marys and Travis Sts. H. T. Phelps, Hicks Bldg., engr. and archt. Noted Nov. 27.

Calif., Los Angeles—Hospital—California Lutheran Hospital Assn., 1414 South Hope St., taking bids 9 story and basement, 196 x 197 ft., rein.-con., brick and stone, 15th and Hope Sts. Walker & Eisen, 701 Great Republican Life Bldg., archts. Noted Jan. 22.

Calif., Los Angeles—School—Feb. 11, by Bd. Educ., 2 and 1 story, brick, concrete and timber, 6th and Frasier Sts. $600,000. G. M. Lindsey, 337 Laughlin Bldg., archt.

Calif., Los Angeles—Store and Office—Los Angeles Investment Co., c/o Walker & Eisen, archts., Great Republic Bldg., will build 12 story and basement, 85 x 140 ft., rein.-con., Bway. near 10th St. $600,000. Work will be done by separate contracts, under supervision of architects. Noted Jan. 15.

BIDS RECEIVED

Mass., Jamaica Plain (Boston P. O.) — School—Schoolhouse Dept., Boston, 3 story and basement, 70 x 130 ft., brick and stone, Elm St., from McDonald & Imhoff, 164 Dudley St., Roxbury, $333,720. Noted Jan. 22.

CONTRACTS AWARDED

Me., Boothbay Harbor—Hotel—Boothbay Hotel Co., c/o T. H. Stevens, will build 4 story and basement, 40 x 85 ft., and 45 x 80 ft., brick addition, by day labor. $350,000. Gibbs & Pulsifer, 14 Lisbon St., Lewiston, archts. Noted Jan. 8.

N. H., Portsmouth—Hospital—City, G. Seybolt, chn., 3 story and basement, 30 x 50 ft., and 40 x 55 ft., brick and steel addition, to H. P. Cumming Constr. Co., 14 Prospect St., Ware, Mass. Archts. est. $150,000.

Mass., Boston — Apartment — Rotman & Hurwitz, 572 Huntington Ave., will build 3 story and basement, brick and stone, 1625-1645 Commonwealth Ave., by day labor. $400,000. Silverman, Brown & Heenan, 51 Cornhill Ave., archts.

Mass., Brookline—Apartment—J. Miller, 130 Callender St., Dorchester, will build 3 story and basement, 120 x 120 ft., brick and cast stone, plain foundation, Winchester St., by day labor. $450,000. S. S. Levy, 35 Court St., Boston, archts. Noted Jan. 22.

Mass., New Bedford — Hospital — St. Lukes Hospital Corp., T. S. Hathaway, Allen St., 2 story and basement, brick and cast stone, Page and Allen Sts., to J. W. Bishop Co., Times Bldg., New Bedford. Archts. est. $160,000. Noted Dec. 18.

Mass., Newtonville — School — H. Fitts, chn., City Hall, Newton, 3 story and basement, brick and stone, Elm Rd. and Walnut St., to J. Bowen Co., 184 Dudley St., Roxbury, $657,735, plumbing, to P. W. Donohue, 170 Purchase St., Boston, $32,200, heating and ventilating to J. S. Cassady, 133 Austin St., Cambridge, $97,500. Noted Jan. 22.

Mass., Somerville—Apartment—Winter Hill Realty Co., c/o A. W. Bowditch, archt., 44 Bromfield St., 5 story and basement, 115 x 200 ft., rein.-con. and brick, Bway. and Bond St., to G. A. Nute, West Canton St., Boston. Archts. est. $300,000. Noted Jan. 8.

Mass., West Roxbury (Boston P. O.)—School—Schoolhouse Dept., Boston, 2 and 3 story and basement, 40 x 170 ft., and 80 x 110 ft., brick, limestone and granite addition to Washington Irving Intermediate School, plain foundation, Charles Sumner Dist., here, to Alco Constr. Co., Inc., 43 Tremont St., Boston, $470,000. Noted Jan. 29.

Mass., Worcester — Apartment — Mr. Katz, 51 Dorchester St., will build 3 story and basement, brick and stone, Dorchester St., by day labor. $150,000. E. T. Chapin, 340 Main St., archt.

Conn., New Britain — School — School Comn., J. H. Halloran, chn., altering and constructing 2 story and basement, 90 x 110 ft., brick addition to Stanley School, Stanley St., to T. W. Crowe, 64 Grove St. Archts. est. $200,000. Noted Jan. 15.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, addition to P. S. 35, Decatur St. and Lewis Ave., here, to Blumar Constr. Co., 25 West 43rd St., New York City, $221,599; heating and ventilating apparatus, to H. Starkman & Bros., 1482 2nd Ave., New York City, $38,200. Noted Jan. 20.

N. Y., Buffalo — Theatre — McNaughton Realty Co., Inc., 40 Court St., 1 story, 143 x 183 ft., brick, steel and concrete theatre, to J. Gill & Sons, Bulkley Bldg., Cleveland, O. Archts. est. $250,000.

N. C., Charlotte—Sales and Service—C. C. Coddington, Inc., 5 story, 100x200 ft., concrete and steel to Realty Constr. Co., Wilmington, Del., $250,000.

N. Y., New York—Church—Bd. Trustees Cathedral of St. John the Divine, 110th St. and Amsterdam Ave., 132 x 225 ft. nave, 175 ft. high (outside dimensions), to Jacobs & Youngs, 116 West 32nd St., $5,900,000.

Buildings—Commercial (Continued)

N. Y., New York—School—Bd. Educ., 500 Park Ave., general contract for P. S. 86, Reservoir Ave. and West 195th St., to Rosenthal Eng. & Constr. Co., Prospect Ave. and 189th St., $733,000; plumbing, to W. J. Endres, Grand Central Terminal, $42,224; heating, to T. F. Hall, Inc., 213 East 44th St., $85,921. Noted Jan. 8.

Pa., Johnstown—Warehouse—Johnstown Terminal Warehouse Co., general contract 5 story and basement, 133 x 242 ft., rein.-con. and brick, Maple Ave. and Jasper St., to Turner Constr. Co., 11 Goodell St., Buffalo, N. Y. Archts. est. $600,000. Noted Oct. 9.

Pa., Phila.—Store—Gimbel Bros., 9th and Market Sts., brick and steel department store, plain foundation, to Thompson-Starrett Co., 49 Wall St., New York City. Archts. est. $1,000,000.

Pa., West View—High School—Bd. Educ. general contract 2 story and basement, 68 x 110 ft. with two 25 x 62 ft. wings, to Rose & Fisher, Martin Bldg., Pittsburgh. Archts. est. $150,000.

Md., Baltimore—School—Mayor and City Council, City Hall, 3 story and basement, 120 x 215 ft., brick and steel, plain foundation, Roland and Linwood Aves., to P. C. Street Eng. Co., 406 St. Paul St., $254,900.

D. C., Wash.—School—Lewis Hotel Training School, 1340 New York Ave., school, Washington Circle and Pennsylvania Ave., to Skinker & Garrett, 1416 F St. N. W., $150,000.

O., Cleveland—School—St. Andrews Roman Catholic Church, S. Gmuca, pastor, 5103 Superior Ave., 2 story and basement, 100 x 150 ft., brick, steel and concrete, East 51st St. near Superior Ave., to C. A. Carson Co., 5716 Euclid Ave. Archts. est. $175,000. Noted Dec. 11.

O., Cleveland—School and Church—St. Emericks Roman Catholic Church, c/o J. Hartel, pastor, 1924 West 22nd St., 2 story and basement, brick, steel and concrete, to C. Peterson Co., 4500 Euclid Ave. Archts. est. $175,000.

O., Youngstown — Auditorium — H. H. Stambaugh Memorial, c/o J. Stambaugh, Stambaugh Bldg., 2 story, 179 x 224 ft., brick, steel and concrete, to Hegeman-Harris Co., 360 Madison Ave., New York City. Archts. est. $2,000,000.

Ill., Cairo—School—Bd. Educ., general contract 2 story, brick and concrete school building, to Great Lakes Constr. Co., 25 East Jackson Blvd., Chicago, $305,000; heating, to La Hue Bros., Cairo, $58,000; plumbing, to J. Schield, Cairo, $28,000. Noted Dec. 25.

Ill., Duquoin — Church — First Baptist Congregation, 2 story, 97 x 118 ft., concrete, brick and stone church, to J. W. Montgomery, Sidell.

Ia., Cedar Rapids—Apartment—Commonwealth Apartment Co., 503 Security Bldg., general contract 6 story and basement, 140 x 140 ft., rein.-con., brick, steel and stone, to O. F. Paulson, Granby Bldg., $301,000. Noted Dec. 25.

Mo., Springfield—Apartment—J. J. Woodruff, Woodruff Bldg., will build 4 story and basement, 95x150 ft., with 40x42 ft. wing, brick, concrete and stone, by day labor. $350,000. H. Z. Dietz, C. E. Toombs and Caldwell & Son, Woodruff Bldg., archts.

Mo., St. Louis—Apartment and Store—Dougherty Real Estate Co., 803 Chestnut St., 3 story and basement, 53 x 175 ft., brick, terra cotta and concrete, Lindell Blvd. and Whittier Ave., to W. Sheehan, 721 Chestnut St. Archts. est. $250,000.

Mo., St. Louis—Sales and Service—C. S. Mueri Building & Realty Co., 3423 Chippewa St., 2 story and basement, rein.-con., brick and terra cotta, 3949-73 Lindell Blvd., to Widmer Eng. Co., Laclede Gas Bldg. Archts. est. $250,000.

Mo., St. Louis — School — St. Mary Magdalene Parish, J. J. Thompson, pastor, 2 story and basement, 130 x 180 ft., brick and concrete, to Gillespie & Daly, International Life Bldg. Noted Jan. 15.

Tex., Ft. Worth — Office — First Natl. Bank of Ft. Worth, 11 story and basement, 50 x 100 ft., brick and steel addition, plain foundation, 7th Ave., to H. B. Friedman Constr. Co., 1st Natl. Bank, approximately $400,000. Noted Jan. 29.

Calif., Los Angeles — Arcade, Store and Apartment—E. D. Henderson, 5 story, 110 x 290 ft., brick, stone and steel, 1241 North Vine St., to A. Bard & Co., 421 Union Oil Bldg., $400,000.

Calif., Los Angeles—Garage and Loft—Goodman Rosenberg & Co., 13 story and basement, 50 x 90 ft., pressed brick, terra cotta, steel and tile, 7th and Los Angeles Sts., to Edwards, Wildey & Dixon, 515 Black Bldg., $252,000. Noted Nov. 6.

Calif., Los Angeles—Garage and Loft—Coco-Cola Bottling & Distributing Co., 1334 South Central Ave., 4 story, 90 x 90 ft., rein.-con., 14th and Birch Sts., to J. M. Cooper, 321 Marsh-Strong Bldg., $150,000. Noted Jan. 29.

Calif., Los Angeles—Hotel—H. Fukui, 707 Turner St., 4 story and basement, 60 x 175 ft., brick and concrete, North San Pedro St., to R. E. Milsap, Marsh-Strong Bldg., Los Angeles, $150,000.

Calif., Oakland—Office and Bank—Central Natl. Bank, 14th St. and Bway., 16 story and basement, Class A construction, to Dinwiddie Constr. Co., Crocker Bldg., San Francisco, $1,156,000.

Calif., San Francisco—Apartment—D. J. Clancy, 285 Kearny St., will build 6 story and basement, brick and steel, Octavia and Sacramento Sts., by day labor. $150,000.

Calif., San Pedro — Office — Channel Constr. Co., 1030 Bank of Italy Bldg., Los Angeles, 10 story and basement, 60 x 175 ft., rein.-con. and hollow tile, 1st and Front Sts., to Williams Constr. Co., Marsh-Strong Bldg., Los Angeles. Approximately $500,000.

Federal Government Work

BIDS DESIRED

N. Y., New York—Tower—Feb. 28, by U. S. Engineer Office, Room 608 Army Bldg., 100 ft. steel tower; adv. E. N.-R. Feb. 5.

Pa., Pittsburgh—Boat Hull—Feb. 27, by U. S. Engineers Office, 1 steel derrick boat hull; adv. E. N.-R. Feb. 5.

Del., Wilmington—Stone—Feb. 27, by U. S. Engineers Office, War Dept., Wash., D. C., about 20,000 tons stone at Ready Point.

Md., Annapolis—Well Houses—Spec. 5056—Feb. 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., well houses at Naval Academy, here. Noted Jan. 8.

D. C., Wash.—Pumping Units—Mar. 3, by U. S. Engineer Office, 250 Old Land Office Bldg., furnishing, installing and testing motor driven pumping units for water supply; adv. E. N.-R. Feb. 5.

Miss., Gulf—Electric Wiring—Feb. 17, at Treasury Dept., Supervising Archts. office, Wash., D. C., furnishing and delivering electric wiring, materials, lumber, etc., here, all carrier charges paid on wharf.

Miss., Vicksburg—Barges—Feb. 28, by U. S. Engineer Office, P. O. Box 421, 2 creosoted wooden barges for Dams 3 and 6, Ouachita River; adv. E. N.-R. Feb. 5.

Tenn., Memphis—Rope—Mar. 2, by Mississippi River Comn., 1st and 2nd Dists., Room 1006 McCall Bldg., 111,200 lb. Manila rope; adv. E. N.-R. Feb. 5.

Tenn., Memphis—Wire, etc.—Mar. 2, by Mississippi River Comn., 1st and 2nd Dists., Room 1006 McCall Bldg., furnishing galvanized wire, wire strand, staples, wire rope clips and fiber clad rope; adv. E. N.-R. Feb. 5.

Ill., Great Lakes—Water Intake—Spec. 5034—Feb. 25, Bureau Yards & Docks, Navy Dept., Wash., D. C., water intake extension at Naval training station. Noted Jan. 15.

Kan., Ft. Leavenworth—Bridge—Feb. 16, by H. F. Stone, attorney general U. S. Dept. of Justice, Wash., D. C., reconstructing old bridge; adv. E. N.-R. Feb. 5.

Neb., Lincoln—Dam—Mar. 10, at office Bureau Reclamation, Mitchell, constructing Guernsey Dam, 355,000 cu.yd. sluiced embankment, 234,000 cu.yd. excav., etc, here. E. Mead, comr.; adv. E. N.-R. Feb. 5.

Mo., Jefferson Barracks (Ind. Br. St. Louis) — Storehouse — March 3, by U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., complete storehouse at U. S. Veterans Hospital 92, here. F. T. Hines, dir.; adv. E. N.-R. Feb. 5.

Colo., Denver—Turbines, etc.—Mar. 12, by Dept. Interior, Bureau Reclamation, 2 hydraulic turbines, 2 generators, 4 transformers, etc. adv. E. N.-R. Feb. 5.

Calif., Mare Island—Alterations—Spec. 5034—Feb. 25, Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to Building 34, marine barracks here. Noted Jan. 29.

Calif., San Diego—Paving, etc.—Spec. 5071—Mar. 2, by Bureau Yards & Docks, Navy Dept., Wash., D. C., paving and extending sewer and water lines at Naval Training Station.

CONTRACTS AWARDED

D. C., Wash.—Reviewing Stand—U. S. Government, reviewing stand, to Skinker & Garrett, 1416 F St. N. W., $15,994.

Ga., Fort Benning—Barracks—Constructing Quartermaster, War Dept., Wash., D. C., 1st section regimental barracks, here, to A. Blair, 11 South Lawrence St., Montgomery, Ala., $317,425. Noted Jan. 29.

Tennessee and Kentucky—Aerial Survey—U. S. Army Engineers, Wash., D. C., aerial survey, about 200 mi. in Cumberland River from Granville, Tenn. to Lock 21, Burnside, Ky., for power development possibilities, to Aerial Surveys, Inc., 323 Lakeside Ave. N. W., Cleveland, O.

Ky., Louisville—Lock—U. S. Engineer's Office, War Dept., Wash., D. C., Lock 51, Ohio River, to United Gas Impvt. Contg. Co., Broad and Arch Sts., Phila., Pa. $1,295,311.

Tex., Galveston — Radio Masts — Spec. 5036—Bureau Yards & Docks, Navy Dept., Wash., D. C., radio masts at Naval Compass Station, to J. E. Lingo & Son, Foot of Elm St., Camden, N. J., $1,640. Noted Jan. 22.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

560—California-Oregon Power Co., Medford, Ore.—Wants license for 77½ mi. transmission line from Copco to Delta forming interconnection between applicants' system and Pacific Gas & Electric Co.

561—J. A. Shafer, 1008 Odd Fellows Bldg., Indianapolis, Ind. — Wants preliminary permit for power project in Wabash River, Ill., and east fork of White River, Ind.

562—Inland Power & Light Co., Portland, Ore. — Wants license for 62.7 mi. transmission line from Pasco, Wash., to Pendleton, Ore.

563 — Interstate Pub. Serv. Co., Indianapolis, Ind.—Wants preliminary permit for power project about 2 mi. downstream from Bristol, Ind., in St. Joseph River.

564—W. C. McCowan, Odd Fellows Bldg., Bakersfield, Calif.—Wants preliminary permit for power and irrigation development in Kern River, Kern Co.

565—City of Lewiston, Idaho.—Wants preliminary permit for 30 ft. dam with power house, etc., in Clearwater River, Nez Perce Co.

566—Kentucky Hydro-Electric Co., Louisville, Ky.—Wants preliminary permit for 160 ft. dam about 1 mi. from Booneville, South fork of Kentucky River, Owsley and Clay Counties.

567—East Bay Municipal Utility Dist., 505 17th St., Oakland, Calif.—Wants preliminary permit for power project in Mokelumne River, Mokelumne, Rio, Amador and Calaveras Counties.

Unclassified

PROPOSED WORK

Grade Crossing—Quincy (Ind. Bd. Boston), **Mass.**—Plans abolishing grade crossing at Quincy and Quincy Adams railroad stations of New York, New Haven & Hartford R.R. $100,000. Cost probably shared by City, State and Railroad Co. Engineer not selected.

Golf Course, etc.—Chimney Rock, N. C.—See "Dams."

Stadium—Jacksonville, Fla.—City having preliminary plans prepared by W. E. Sheddan, city engr. municipal stadium. F. M. Valz, comr. Pub. Wks.

Docks — South Jacksonville (Ind. Br. Jacksonville), **Fla.** — See "Streets and Roads."

Sea Wall — Mississippi — Harrison Co. (Gulfport) soon takes bids sea wall along beach front from Biloxi to Pass Christian, incl. 75 train loads cement, gravel, sand and steel to complete work. $2,000,000. D. H. Shaw, City Hall, engr. Noted Jan. 29.

Car Barns—Cleveland, O.—Cleveland Ry. Co., c/o G. L. Radcliffe, vice-pres. Hanna Bldg., plans 1 story, brick, steel and concrete car barns, West 117 St. and Lorain Ave. $300,000. Engineer and architect not selected.

Unclassified (Continued)

Athletic Field — Rocky River, O. — See "Buildings—Commercial."

Circle for Park Entrance—St. Louis, Mo.—Making preliminary plans circle entrance to Forest Park at Kingshighway and Oakland Ave. and providing connection with Arco and Oakland Aves., 380 ft. diam., incl. grading, curbing, paving, etc. $138,000. H. Bartholomew, Municipal Court Bldg., engr.

Stadium and Athletic Field—St. Louis, Mo.—Bd. Educ., 911 Locust St., soon takes bids on 1st units rein.-con. stadium, 50,000-60,000 seating capacity, also athletic field, Kingshighway and St. Louis Aves. $1,000,000. R. M. Mulligan, c/o owner, engr.

Wharf — Beaumont, Tex. — See "Buildings—Industrial."

Gas Holder — Portland, Ore. — Portland Gas & Coke Co., Gas Co. Bldg., takes bids about March 15, 18 ft. diam. gas holder, 3,000,000 cu.yd. capacity, East 9th and Taggert Sts. $300,000. Address G. W. Talbot, pres.

Ornamental Street Lighting System—Colton, Calif.—Plans ornamental street lighting system on 8th St. $45,000.

Concrete Pipe and Conduits—Los Angeles, Calif.—Los Angeles Co. (Drainage Impvt. Project 11), making plans 48, 63 and 72 in. rein.-con. pipe, 24, 30, 36, 48, 54, 57 and 66, in. diam.; open earth canal 40 ft. wide; 6 x 9 ft., 7 x 9 ft., 9 x 11 ft., 10 x 12½ ft. rein.-con. double covered, 9 x 12 ft., 5 x 9 ft., 6 x 12 ft., and 8 x 11 ft. rein.-con. covered and 9½ x 12½ ft. rein.-con. double covered conduits, etc. $1,800,000. J. H. Rockhold, Hall of Records Bldg., engr.

Condensor, Transformer, etc. — Stockton, Calif.—Western States Gas & Electric Co., Chnl. and Sutter Sts., making plans improvements in San Joaquin Valley section, incl. 10,000 kw. rotary condenser, seven 333 kw. transformers, new gas plant, steel switching structure, and 2 high pressure line belt. Approximately $2,000,000.

Lighting Standards—Venice, Calif.—See "Streets and Roads."

BIDS DESIRED

Gas Container — New Britain, Conn. — New Britain Gas & Light Co., Pine St., taking bids 2,000,000 cu.ft. gas container for illuminating gas. $200,000. H. T. Sloper, mgr. Noted Jan. 15.

Pier Shed—New York, N. Y.—Feb. 11, by M. Cosgrove, comr. Docks, Pier A, foot Battery Pl., constructing pier shed and bulkhead shed for Pier 2, North River, Contr. 1847.

Sanitary Work, etc. — Randalls Island, N. Y.—Mar. 5, by Superintendent Purchase, Capitol, Albany, sanitary work, additional fire protection, etc., at New York House of Refuge, here; adv. E. N.-R. Feb. 5.

Boardwalk—Wildwood, N. J.—Feb. 17, by Bd. Comrs. City Hall, removing present boardwalk and reconstructing rein.-con. boardwalk. W. H. Boardman, 426 Walnut St., Phila., Pa., consult. engr.; adv. E. N.-R. Feb. 5.

Lighting System—Wilson, N. C.—Feb. 12, by S. R. Lucas, mayor and Bd. Comrs., extensions to lighting system. R. J. Grantham, supt.; adv. E. N.-R. Feb. 5.

Culverts — Kansas City, Kan. — See "Streets and Roads."

Estuary Tube — Oakland, Calif. — March 23, by Supervs. Alameda Co., constructing estuary tube. $4,200,000. G. A. Posey, Courthouse, engr.

Steel Scows—Ottawa, Ont.—Feb. 9, by S. E. O'Brien, secy. Dept. Pub. Wks., constructing and delivering 2 steel flat deck scows, in Quebec or Montreal Harbors.

BIDS RECEIVED

Heating and Plumbing—New York, N. Y.—See "Buildings—Commercial."

Subway—New York, N. Y.—Bd. Transportation, Municipal Bldg., Jan. 20, constructing subway Sect. 3, Route 78, from 122nd to 133rd Sts., from Rosoff Eng. Co., 152 West 42nd St., $4,600,000. Noted Jan. 1.

Street Lighting System—Turlock, Calif.—Street lighting system on various streets, from Osborn Electric Co., Pasadena, $66,900.

CONTRACTS AWARDED

Heating and Ventilating—Brooklyn, N. Y.—See "Buildings—Commercial."

Baseball Park—Pittsburgh, Pa.—Pittsburgh Athletic Co., Farmers Bank Bldg., general contract rein.-con. and steel addition to Forbes Field Baseball Park, Bouquet St., to J. H. Fetterman, Park Bldg. Engrs. est. $650,000.

Pipeline—South Carolina—Standard Oil Co., Peoples Bldg., Charleston, 42 in. c.i. pipe line from salt water pump house, Charleston to Cooper River, to Simons Mayrant Co., Mary St., Charleston.

Block Signal System — Tennessee and Georgia — Nashville, Chattanooga & St. Louis R.R. Co., 1000 Bway., Nashville, Tenn., will construct automatic block system from Chattanooga, Tenn., to Atlanta, Ga., by day labor. $500,000. H. McDonald, ch. engr.

Heating and Plumbing—Cairo, Ill.—See "Buildings—Commercial."

Street Lighting System — Los Angeles, Calif.—Bd. Pub. Wks., ornamental lighting system on Highland Ave., to Robertson Electric Co., 303 Main St., $60,954, on New Hampshire Ave. and Grand St., to D. S. McEwan, 127 Pier Ave., $3,600 and $2,566 respectively. Noted Jan. 22.

Raising Banks and Walls, etc. — Cornwall, Ont.—Dept. Pub. Wks., Ottawa, raising banks and canal lock walls on Cornwall Canal, to Fallon Bros., Cornwall, $28,789.

Material and Equipment

PROPOSED WORK

Sand—Brooklyn, N. Y.—J. A. Guider, boro pres., Boro Hall, rejected bids Jan. 21, for 5,000 cu.yd. paving sand. Noted Jan. 29.

Trucks, Tractor and Trailer—Nashville, Tenn.—City plans to purchase 3 five ton trucks, 1 tractor and 1 five ton trailer. $15,500. W. W. Southgate, city engr.

Tractor—Parish, Tenn.—Henry Co. Court plans to purchase 5 ton caterpillar tractor. N. Alexander, supt. co. roads.

Street Sweeper — Lakewood (Cleveland P. O.) **O.**—Plans to purchase 1 street sweeper.

Tractor and Truck—Eau Claire, Wis.—Eau Claire Co. plans replacing one 15 ton tractor and one 4 wheel drive truck, recently destroyed by fire. G. Osborne, highway comr.

Tractor — Caledonia, Minn. — City soon takes bids one 10 ton tractor. E. J. Duffy, city clerk.

Truck—Eveleth, Minn.—S. M. Owens, city clk., plan to purchase, one ⅔ ton truck for Street Dept., Old $1,200 tractor to be taken in on purchase.

Street Flusher and Truck — Wauwatosa, Wis.—City, c/o A. V. Brigham, city clk., soon takes bids 1 street flusher and 1 motor truck for hauling garbage and ashes, etc.

Cement Gun—Oakdale, Calif.—Oakdale Irrigation Dist., plans to purchase cement gun for canal lining. R. E. Hartley, ch. engr.

BIDS DESIRED

Iron Castings, etc.—Boston, Mass.—Feb. 16, iron castings, manhole, catch basins and lamphole frames and covers, catch basins, frames and grates, tide grates, iron inlets, regulator castings, etc. F. P. Rock, supt. Supply Dept.

Asphalt Sand—Brooklyn, N. Y.—Feb. 11, by J. A. Guider, boro. pres. Boro. Hall, 10,000 cu.yd. asphalt sand, 5,000 cu.yd. paving and concrete sand.

Broken Stone, etc.—Long Island City, N. Y.—Feb. 9, by M. E. Connolly, boro pres., Queens Subway Bldg., 28,000 cu.yd. broken stone and screenings; 15,000 tons steam ashes, in 1st, 2nd and 3rd Wards; 6,500 cu.yd. sand grit or broken stone chips; 600,000 gal. road oil; 1,300 tons asphaltic cement; 350,000 gal. asphalt macadam binder; 25,000 gals. asphalt for patching; 60,000 gal. fuel oil; 15,000 tons steam ashes in 4th Ward; 25,000 tons vitrified paving bricks; 50,000 wood and 100,000 asphalt paving blocks; 864 ft. 12 in. iron pipe.

Sand Grit, etc.—New York, N. Y.—Feb. 10, by H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., 9,000 cu.-yd. sand grit; 1,500 tons asphaltic cement; 5,000 bags Portland cement; 750,000 gal. bituminous road surfacing material; 700 tons inorganic dust; 150,000 gal. tar for patching; 1,000 cu.yd. concrete and paving sand; 7,500 cu.yd. binder stone; 300,000 gal. bituminous road surfacing material; 500 cu.yd. ½ in. paving gravel; 10,000 cu.yd. steam boiler ashes; 10,000 cu.yd. asphalt sand; 4,000 cu.yd. 1½ in. waterbound macadam; 75 tons pitch for joint filler.

Crushed Stone—Pennsylvania—Feb. 10, by State Dept. Hys. Harrisburg, crushed stone for maintenance work in various counties.

Snow Plows — Delaware — Feb. 16, by State Hy. Dept., Dover, 3 snow plows; adv. E. N.-R. Feb. 5.

Lead — Baltimore, Md. — See "Waterworks."

Gravel — Louisiana — See "Streets and Roads."

Generator, etc. — New Orleans, La. — Feb. 10, by E. Egan, supt. New Basin Canal & Shell Rd. Bd., Howard and South Rampart Sts., 1 direct generator driven by gasoline engine, 1,250 Watts, 110 volts, also one 225 hp. six cylinder fuel Diesel engine, etc. $50,000.

Steam Shovel—Cleveland, O.—Erie Excavating Co., 1010 Eddy St., taking bids for 1 medium sized steam shovel. B. Udelson, mgr.

Road Equipment—Michigan—Feb. 9, by Macomb Co. Rd. Comn., Mt. Clemens, furnishing following road equipment: four 8 ton industrial gasoline locomotives, 75 steel platform cars, 2 double track platform cars, 7½ mi. 24 in. gauge, 1 light power grader, 1 back finisher, one 30 ft. finisher, one 30 ft. subgrader, etc.

Sand, etc. — Michigan — Feb. 10, by Macomb Co. Rd. Comn., Mt. Clemens, furnishing 25,000 tons sand, 50,000 tons pebbles, 62,500 bbl. cement, 23,785 lb. reinforcing steel, etc.

Asphalt, Sand, Stone, etc.—Detroit, Mich.—Feb. 19, by F. M. Meyer, comr. Purchases & Supplies, 710 Marquette Bldg., 110,000 cu. yd. asphalt sand, 75,000 cu.yd. binder stone and 18,000 tons mineral filler. G. Jerome, City Hall, engr.

Snow Plow—Antigo, Wis.—Langlade Co., C. Olsen, highway comr., taking bids snow plow. $1,850 appropriated. Noted Nov. 27.

Road Tile—Oshkosh, Wis.—Feb. 11, Bd. Pub. Wks., 100,000 gal. road tile. G. Randall, city engr.

Road Oil—Sparta, Wis.—Feb. 14, by W. E. Bernett, street comr., 50,000 gal. No. 5 road oil, having 50 to 60% asphaltic content.

Road Oil—Watertown, Wis.—Feb. 11, by F. S. Weber, city clk., 120,000 gal. road oil, 50 to 60% asphaltic content. Noted Jan. 29.

Tractor—Lake Andes, S. D.—Feb. 11, by C. H. Robertson aud. Charles Mix Co., 1 tractor engine for road construction purposes.

Diesel Oil Engine — Wellington, Tex. — Feb. 16, by C. B. Myers, city clk., 400 hp. Diesel oil engine generator unit, complete with exciter, switchboard and power wiring, for city light plant. $45,000. L. J. Leffitt, Wellington, engr.

BIDS RECEIVED

Ties and Timber—New York, N. Y.—Bd. Transportation, 49 Lafayette St., Jan. 30, 17,000 ft. ties and timber for construction of Rapid Transit R.R., from Robinson Lumber Co., 52 Vanderbilt Ave., $13,247. Noted Jan. 22.

Cement—Tracy, Calif.—W. Schlossman, secy. Banta-Carbona Irrigation Dist., from Cowell Lime & Cement Co., 2 Market St., San Francisco, 7,500 bbls. cement delivered Tracy at $2.73 per bbl. Carbona $2.75, Yarmouth $2.78, Fitz $2.75, and Lyoth $2.75.

CONTRACTS AWARDED

Cement, Gravel, etc.—Brooklyn, N. Y.—J. A. Guider, boro pres., Boro Hall, 8,000 bbl. Portland cement, to M. M. Canda, 184 3rd St., $21,960; 4,000 cu.yd. gravel or broken stone, and 2,000 cu.yd. sand grit, to B. Turecamo Contg. Co., 8706 Bay 12th St., $9,400 and $4,080 respectively; 80,000 gal. asphaltic macadam binder, to Standard Oil Co., 26 Bway., New York City, $12,000; 500,000 gal. asphalt road oil, to Texas Co., 17 Battery Pl., New York City, $31,180; 400,000 gal. asphaltic cement, to Warner-Quinlan Co., 79 Wall St., New York City, $26,280; 2,000 net tons limestone, to New York Trap Rock Co., 101 Park Ave., New York City, $13,940; 300 tons paving pitch, to Barrett Co., 17 Battery Pl., New York City, $7,650; 4,000 cu.yd. binder stone, to Calvin Tompkins Co., 30 Church St., New York City, $9,220. Noted Jan. 29.

Road Machinery—Jefferson, Wis.—R. D. Royce, Fort Atkins, highway comr., four graders to Austin-Western Road Machinery Co., 400 North Michigan Blvd., Chicago, Ill., twenty-four slip scrapers to Whitewater Constr. Co., Whitewater, and 8 doz. shovels and two doz. bits to Whitewater Bridge Co., Whitewater. Noted Jan. 15.

Coal Loader—Two Harbors, Minn.—City furnishing coal loader with gas driven motor and electric motor to W. H. Ziegler Co., 425 South 5th St., Minneapolis, $2,640, f.o.b. Aurora, Ill. Noted Jan. 8.

OFFICIAL PROPOSALS

Bids: Feb. 19

Sewers

Dover, N. J.

The Sewer Committee of the Mayor and Board of Aldermen of the Town of Dover, N. J., will receive, at a meeting to be held in the Council Chambers in the Municipal Building, North Sussex Street, Dover, N. J., on Thursday, February 19th, 1925, at two o'clock p.m., sealed proposals for furnishing materials and doing all the necessary work required for the construction of all house connections to the sewer system in Blackwell Street, Dover, between the railroad viaduct in West Blackwell Street and the White bridge over the Rockaway River in East Blackwell Street, as the Mayor and Board of Aldermen of the Town of Dover may determine to construct.

The work includes excavating and pipe laying where required, and all other work incidental thereto, and must be done and performed at the places designated by the Mayor and Board of Aldermen and according to specifications prepared by Clyde Potts, Engineer, which specifications may be seen at the office of the Clerk of the Town of Dover, Municipal Building, or at the office of Clyde Potts, 30 Church Street, New York City.

Each bid must be accompanied by a certified check for Eight Thousand Dollars ($8,000.00), payable to the order of John Moller, Treasurer, Town of Dover. Each bid must also be accompanied by a certificate from a reliable bond company, stating that it will furnish the bidder with a bond in the amount and for the purpose required in the specifications.

The Mayor and Board of Aldermen of the Town of Dover reserve the right to reject any and all proposals and to waive any informality in the proposals received and to accept any proposal which they deem to be most favorable to the interests of the Town.

The successful bidder will be required to enter into a bond to and in the form approved by the Mayor and Board of Aldermen of the Town of Dover for the faithful performance of the contract.

By order of the Mayor and Board of Aldermen of the Town of Dover.

JOSEPH V. BAKER,
Town Clerk

Dated January 29, 1925.

Bids: Feb. 12.

Lighting System Extensions

Wilson, N. C.

Sealed bids will be received by the Mayor and Board of Commissioners of the Town of Wilson, North Carolina, for the above work, until 4 o'clock p.m. of February 12th, 1925, when they will be opened and publicly read at the Mayor's office.

The extensions will consist of materials covered by items specifically set out in specifications on file at the office of the Supt. of the electric light department of the Town of Wilson, and work enumerated therein, which plans and specifications and contract forms may be obtained by applying to the undersigned.

Proposals must be sealed and properly addressed to either of the undersigned, Wilson, North Carolina.

Each bid must be accompanied by a certified check or bidders bond in the amount of 5% of the amount bid as evidence of good faith on the part of the bidder.

The right is reserved to reject any or all bids or to accept any which may seem to be to the best interest of the Town of Wilson.

SILAS R. LUCAS,
Mayor.
R. J. GRANTHAM,
Supt.

Bids: March 2.

Dredging

Ithaca, N. Y.

Sealed bids will be received until 10 a.m., March 2, 1925, by C. D. Bostwick, Comptroller, Cornell University, Ithaca, New York for about 100,000 cu.yd. of hydraulic dredging of Beebe Lake, Ithaca, New York.

Until the same hour and date sealed bids will be received by W. O. Kerr, City Clerk, Ithaca, New York for 100,000 cu.yd. of hydraulic dredging at the south end of Cayuga Lake, Ithaca, New York.

Full particulars for bids may be obtained by addressing the above named parties. The right is reserved to reject any and all bids.

January 29, 1925.

OFFICIAL PROPOSALS

Bids: Mar. 5.

Sanitary Work, Additional Fire Protection, etc.

NEW YORK HOUSE OF REFUGE
Randall's Island, N. Y.

Sealed proposals for Sanitary Work, Additional Fire Protection, (Piping System, Pumping Equipment, New Addition to Power House, etc.), New York House of Refuge, Randall's Island, N. Y., will be received by the Superintendent of Purchase, Capitol, Albany, N. Y., until 3 o'clock p.m., on Thursday, March 5, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed and shall be accompanied by a deposit as a guarantee that bidder will enter into contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to five per cent (5%) of the amount of the bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specification No. 4308. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the New York House of Refuge, Randall's Island, New York, at the New York office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23d St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y.

Dated: January 27, 1925.

Bids: March 5.

Construction, Heating, Sanitary and Electric Work

Hudson, N. Y.

Sealed proposals for construction, heating, sanitary and electric work, reconstruction of industrial building, New York State Training School for Girls, Hudson, N. Y., will be received by the Superintendent of Purchase, Capitol, Albany, N. Y., until 3 o'clock p.m., Thursday, March 5, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorported bank in this State and made payable to the State of New York, or money, in an amount equal to five per cent (5%) of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specifications Nos. 4322, 4323, 4324 and 4325. The right is reserved to reject any or all bids. Drawings and specifications may be examined at New York State Training School for Girls, Hudson, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway & 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon request.

Dated: January 21, 1925.

Bids: Feb. 27.

State Highway Work

Harrisburg, Pa.

Pennsylvania Department of Highways, Harrisburg, Pa. Bids will be received February 27, 1925, for construction of fifteen projects, totaling seventy-two miles, construction to be either bituminous surface on a concrete base or reinforced concrete. Projects situated in the following counties: Allegheny, Berks, Cameron, Elk, Carbon, Centre, Crawford, Dauphin, Greene, Indiana, Luzerne, McKean, Montgomery, Susquehanna, Westmoreland.

Full particulars upon application to W. H. Connell, Engineering Executive and Deputy Secretary of Highways, Harrisburg, Pennsylvania.

OFFICIAL PROPOSALS

Bids: Feb. 24.

Elevated Steel Water Tank

Sea Girt, N. J.

Notice is hereby given that sealed bids will be received by the Borough Council of the Borough of Sea Girt for furnishing all labor and material for the erection of an elevated steel water tank of 150,000 gallons capacity with steel tower and all appurtenances complete in place ready for operation at the Borough Pumping Station; concrete tower foundations will be constructed by the Borough. Bids will be opened publicly at the Municipal Building, Sea Girt, N. J., on Tuesday, February 24, 1925 at 8 p.m.

Specifications and proposal form are on file at the office of the Borough Clerk at Sea Girt, N. J., where they may be examined by prospective bidders. Specifications and proposal forms will be furnished to bidders upon request after proper notice accompanied with a deposit of five dollars, by G. Roland Moore, C. E., Asbury Park Trust Company Building, Asbury Park, N. J.

Bids must be made on the standard proposal form in the manner designated therein and as required by the specifications. They must be presented to the Borough Council at the time and place aforementioned in sealed addressed envelopes bearing the name and address of the bidder, and the notation "Bid on Elevated Steel Water Tank." Bids must be accompanied by a certified check drawn to the order of the Borough Collector of Sea Girt for one thousand dollars ($1,000).

The right is reserved to reject any or all bids.

By order of the Borough Council of the Borough of Sea Girt, N. J.
G. ROLAND MOORE, C. E.,
Attest:

F. H. RUDDEROW, Mayor
C. A. BOND, JR., Borough Clerk

Bids: Feb. 21.

Water Works Improvements

Paintsville, Ky.

The City of Paintsville, Ky., will receive bids until 12 o'clock noon on the 21st day of February, 1925, for COMPLETE PUMPING STATION, FILTER PLANT, MOTOR DRIVEN CENTRIFUGAL PUMPS, STEEL STORAGE RESERVOIR, DISTRIBUTION MAINS, AND APPURTENANCES.

Plans, specifications and bidding blanks can be obtained from The J. N. Chester Engineers, Union Bank Building, Pittsburgh, Pennsylvania, or from the City Clerk at Paintsville, Kentucky, on deposit of Twenty-five Dollars ($25.00), which will be returned upon the return of said plans and specifications in good condition.

J. N. MEEK, Mayor.

Bids: March 4.

State Hospital Work

Willard, N. Y.

Sealed proposals for Automatic Fire Sprinklers, Willard State Hospital, Willard, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 3 o'clock p.m., on Wednesday, March 4th, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York, or money equal to five per cent (5%) of the amount of the bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specification No. 4443. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Willard State Hospital, Willard, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y.

Dated: January 31st, 1925.

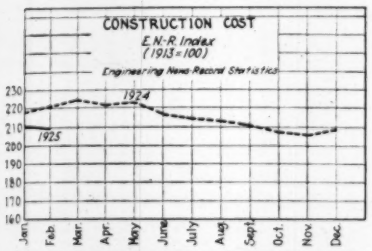
CONSTRUCTION NEWS

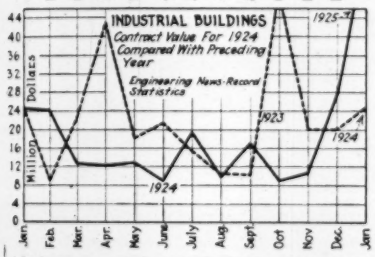
Engineering News-Record, February 12, 1925

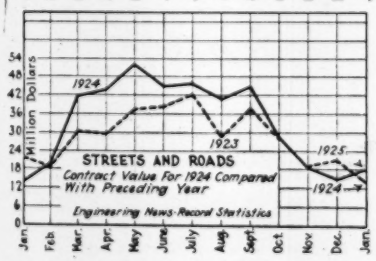
The Construction Barometer

Volume of Construction Increasing With Declining Cost—Steady Gain Now Seen in Lettings for Public Work Throughout U. S.—Water-Works and Private Buildings Lead in West—Federal Government Work Active in South

AN INCREASING volume, consequent to declining cost, is true of the present construction situation, as shown by the accompanying charts. Nearly all classes of work shared in the January gains and there is a consistent upward trend in contract letting for public work throughout the entire nation. The past month has seen steady gains, from week to week, in Federal Government awards in the South. In the Middle West, the only classification to show a definite increase each week, over the one preceding, is that of private buildings for commercial use. The same may be said of water-works projects in the states immediately west of the Mississippi.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

Value of Large Contracts Let In The United States

Week Ended	Public Work	Private Work	Total Contracts
Jan. 22	$7,940,000	$24,281,000	$32,221,000
Jan. 29	9,194,000	85,927,000	95,121,000
Feb. 5	13,213,000	20,500,000	33,713,000
3 weeks	$30,347,000	$130,708,000	$161,055,000

Large Building Contracts—Number and Value

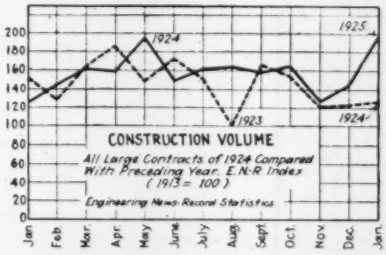
Week Ended	Commercial—Public No.	Commercial—Public Thousand	Commercial—Private No.	Commercial—Private Thousand	Industrial No.	Industrial Thousand
Jan. 22	10	$2,656	52	$21,930	8	$1,071
Jan. 29	5	778	37	24,384	34	61,518
Feb. 5	11	3,525	27	17,107	18	1,539
3 weeks	26	$6,959	96	$63,421	60	$64,128

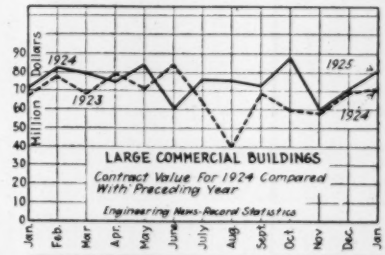
Number Of Large Jobs Now Out For Bids

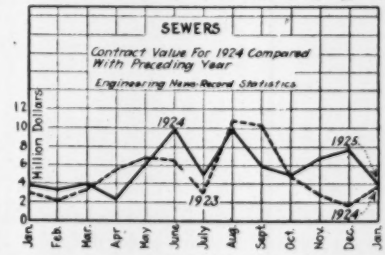
Week Ended	Private	Commercial Buildings	Streets and Roads	Water-works and Sewers	All Public
Jan. 22	26	47	48	25	158
Jan. 29	27	43	31	24	144
Feb 5	23	40	41	34	174

Steel Shapes Firmer at Mills

	Quoted on Feb. 12 at	Last Price Change Was	On
Structurals, Pittsburgh, 100 lb.	$2.00 @2.20	$2.00 @2.10	Feb. 5
Cement, Chi., net bbl.	2.20	2.10	Jan. 15
Pine, N. Y., M. ft.	60.00	57.00	Jan. 15
Fir., San Fran., M. ft.	29.00	31.00	Oct. 30
Common labor, hr.	.54	.55½	Jan. 29







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Feb. 13	Buffalo, N. Y.	Feb. 12
Feb. 15	Kansas City, Mo.	Jan. 29
Feb. 16	Bay City, Mich.	Feb. 5
Feb. 16	Detroit, Mich.	Feb. 5
Feb. 16	South Milwaukee, Wis.	Feb. 12
Feb. 17	St. Catherines, Ont.	Feb. 5
Feb. 17	Clinton, S. C.	Feb. 12
Feb. 17	Menasha, Wis.	Feb. 12
Feb. 17	Stanton, Neb.	Feb. 12
Feb. 18	West Jefferson, N. C.	Jan. 22
Feb. 18	Morrison, Okla	Feb. 12
Feb. 18	Boston, Mass.	Feb. 12
Feb. 18	Grandview Heights (mail Columbus), O.	Feb. 12
Feb. 19	Boston, Mass.	Feb. 12
Feb. 20	Mt. Vernon, N. Y. Adv. Feb. 5 and 12.	Feb. 5
Feb. 20	North Tarrytown, N. Y. Adv. Feb. 5 and 12.	Feb. 5
Feb. 20	Oneida, N. Y. Adv. Feb. 5 and 12.	Feb. 5
Feb. 21	Pointsville, Ky.	Feb. 5
Feb. 24	Clinton, Mass.	Jan. 22
Feb. 24	Sea Girt, N. J. Adv. Feb. 5 and 12.	Feb. 5
Feb. 25	Fall City, Neb.	Feb. 12
Feb. 25	Mansura, La. Adv. Feb. 12.	Feb. 12
Feb. 26	Springfield, Mass. Adv. Feb. 12.	Feb. 12
Mar. 3	Barberton, O.	Jan. 29
Mar. 10	Piqua, O. Adv. Feb. 12.	Feb. 12
Mar. 16	New York, N. Y.	Feb. 5

SEWERS

Bids Close		See Eng. News-Record
Feb. 13	Long Island City, N. Y.	Feb. 5
Feb. 16	New Orleans, La.	Jan. 15
Feb. 16	Paducah, Tex.	Jan. 29
Feb. 16	New York, N. Y.	Feb. 12
Feb. 16	Toledo, O.	Feb. 12
Feb. 16	New York, N. Y.	Feb. 12
Feb. 18	Grand Rapids, Mich.	Jan. 22
Feb. 19	Portsmouth, O. Adv. Feb. 5 and 12.	Feb. 5
Feb. 19	Dover, N. J.	Feb. 12
Feb. 19	New York, N. Y.	Feb. 12
Mar. 2	Elgin, Ill. Adv. Feb. 5 and 12.	Feb. 5

Bids Close		See Eng. News-Record
Mar. 5	Westerville, O. Adv. Feb. 12.	Feb. 12
Mar. 9	Decatur, Ill. Adv. Feb. 12.	Feb. 12
Mar. 10	Urbana, Ill. Adv. Feb. 12.	Feb. 12

WASTE DISPOSAL

Feb. 17	Sharon, Pa. Adv. Feb. 5 and 12.	Feb. 5

BRIDGES

Feb. 16	Michigan	Feb. 5
Feb. 16	Arkansas	Feb. 12
Feb. 17	Tampa, Fla.	Jan. 8
Feb. 17	Marion, Ia.	Feb. 12
Feb. 17	Colorado	Feb. 12
Feb. 18	Idaho	Feb. 12
Feb. 24	California	Feb. 12
Feb. 27	Lancaster, Pa.	Feb. 12
Mar. 5	Charleston, S. C. Adv. Feb. 12.	Feb. 12

DAM

Feb. 26	Westminster, B. C.	Feb. 5

EXCAVATION, DRAINAGE IRRIGATION, LEVEES

Feb. 17	Minneapolis, Minn.	Feb. 5
Feb. 18	Oroville, Calif.	Feb. 12
Feb. 19	San Francisco, Calif.	Feb. 12
Mar. 2	Ithaca, N. Y. Adv. Feb. 5 and 12.	Feb. 5

STREETS AND ROADS

Feb. 14	Galesburg, Ill.	Feb. 12
Feb. 16	Peekskill, N. Y. Adv. Jan. 15 to Feb. 12.	Jan. 22
Feb. 16	Bartow, Fla.	Feb. 12
Feb. 16	New York, N. Y.	Feb. 12
Feb. 17	St. Louis, Mo.	Jan. 22
Feb. 17	Teague, Tex.	Jan. 29
Feb. 17	Fairfield, Tex.	Jan. 29
Feb. 17	Waupun, Wis.	Feb. 5
Feb. 17	Winnsboro, S. C.	Feb. 12
Feb. 17	St. George, N. Y.	Feb. 12
Feb. 17	Sonora, Tex.	Feb. 12
Feb. 17	Menasha, Wis.	Feb. 12
Feb. 18	Austin, Minn.	Jan. 29
Feb. 18	Nevada	Feb. 12
Feb. 18	Grandview Heights (mail Columbus), O.	Feb. 12
Feb. 18	San Francisco, Calif.	Feb. 12
Feb. 19	Louisiana	Feb. 5
Feb. 20	Arkansas	Feb. 12
Feb. 20	Idaho	Feb. 12
Feb. 20	Ohio	Feb. 12
Feb. 21	Idaho	Feb. 12
Feb. 23	Kansas City, Kan.	Feb. 5
Feb. 24	Peru, Ind.	Jan. 22
Feb. 24	Urbana, Ill.	Jan. 29
Feb. 24	Louisiana	Feb. 5
Feb. 24	Juneau, Wis.	Feb. 12
Feb. 24	San Diego, Calif.	Feb. 12
Feb. 25	Pearsall, Tex.	Feb. 5
Feb. 25	Kernersville, N. C.	Jan. 29
Feb. 26	Kenosha, Wis.	Jan. 29
Feb. 27	Pennsylvania Adv. Feb. 5 and 12.	Feb. 5
Feb. 27	Greenburg, Pa.	Feb. 12
Mar. 1	New Philadelphia, O.	Feb. 5
Mar. 3	St. Louis, Mo.	Feb. 5
Mar. 2	Kalama, Wash.	Feb. 12
Mar. 2	New Jersey Adv. Feb. 12.	Feb. 12
Mar. 3	Wash., D. C.	Feb. 12
Mar. 3	Bluefield, W. Va. Adv. Feb. 12.	Feb. 12
Mar. 4	Mobile, Ala. Adv. Feb. 5 and 12.	Feb. 5
Mar. 30	Duluth, Minn.	Feb. 12

BUILDINGS—INDUSTRIAL

Feb. 13	Coney Island (Sta. Brooklyn), N. Y.	Feb. 5
Feb. 16	Phila., Pa.	Feb. 12
Feb. 20	Coney Island (Sta. Brooklyn), N. Y.	Feb. 12
Mar. 1	Youngstown, O.	Jan. 15

BUILDINGS—COMMERCIAL

Feb. 14	Stamford, Conn.	Feb. 5
Feb. 14	Mansfield, O.	Feb. 5
Feb. 15	Youngstown, O.	Jan. 15
Feb. 16	Detroit, Mich.	Feb. 5
Feb. 16	New York, N. Y.	Feb. 12
Feb. 16	Faribault, Minn.	Feb. 12
Feb. 16	Milwaukee, Wis.	Feb. 12
Feb. 17	Collingwood, Ont.	Jan. 22
Feb. 17	Wilmington, Del.	Jan. 22
Feb. 18	Jefferson City, Mo.	Feb. 5
Feb. 18	Baltimore, Md.	Feb. 12
Feb. 18	Shamokin, Pa.	Feb. 5
Feb. 18	Bowie, Md.	Feb. 12
Feb. 19	Jamaica, N. Y.	Jan. 29
Feb. 19	Reading, Pa.	Feb. 12
Feb. 20	Phila., Pa.	Feb. 5
Feb. 20	Germantown (Phila. P. O.), Pa.	Feb. 5
Feb. 20	Detroit, Mich.	Feb. 12
Feb. 21	New Jersey	Feb. 5
Feb. 21	San Antonio, Tex.	Feb. 12
Feb. 23	Jacksonville, Fla.	Feb. 12
Feb. 25	Petrolia, Ont.	Feb. 12
Feb. 26	Rhinelander, Wis.	Feb. 5
Feb. 26	Omaha, Neb.	Feb. 12
Feb. 27	Bremen, O.	Feb. 5
Feb. 27	Cleveland, O.	Feb. 12
Mar. 2	Lewisburg, Pa.	Feb. 5
Mar. 3	Kansas City, Mo.	Feb. 12
Mar. 4	Kings Park, N. Y. Adv. Feb. 12.	Feb. 12
Mar. 5	Hudson, N. Y. Adv. Feb. 5 and 12.	Feb. 5
Mar. 17	Freeport, Ill.	Feb. 5

FEDERAL GOVERNMENT WORK

Feb. 14	Deck Barges—Pittsburgh, Pa. Adv. Jan. 22 to Feb. 12.	Jan. 22
Feb. 16	Seawall and Breakwater — Boston, Mass.	Jan. 22
Feb. 16	Bridge—Ft. Leavenworth, Kan. Adv. Jan. 29 to Feb. 12.	Feb. 5
Feb. 17	Electric Wiring — Gulf, Miss.	Jan. 29
Feb. 18	Radio Tower—Cavite, P. I.	Jan. 15
Feb. 18	Extension—Keyport, Wash.	Jan. 15
Feb. 18	Water Intake—Great Lakes, Ill.	Feb. 5
Feb. 19	Garage—Wash., D. C.	Feb. 12
Feb. 20	Dredging—Baltimore, Md.	Jan. 22
Feb. 20	Extensions—Bloomington, Ill.	Jan. 29
Feb. 20	Roofings—Florence, Ala. Adv. Jan. 29 to Feb. 12.	Jan. 29
Feb. 24	Service—Memphis, Tenn. Adv. Jan. 29 to Feb. 12.	Jan. 29
Feb. 24	Dredging, etc.—New York, N. Y. Adv. Feb. 12.	Feb. 12
Feb. 25	Alterations—Mare Island, Calif.	Feb. 5
Feb. 25	Well Houses—Annapolis, Md.	Feb. 5
Feb. 27	Towboat — Vicksburg, Miss. Adv. Jan. 29 to Feb. 12.	Jan. 29
Feb. 27	Boat Hull—Pittsburgh, Pa. Adv. Feb. 5 and 12.	Feb. 5
Feb. 27	Stone—Wilmington, Del.	Feb. 5
Feb. 28	Barges—Vicksburg, Miss. Adv. Feb. 5 and 12.	Feb. 5
Feb. 28	Tower—New York, N. Y. Adv. Feb. 5 and 12.	Feb. 5
Mar. 2	Paving, etc.—San Diego, Calif.	Feb. 5
Mar. 2	Wire, etc.—Memphis, Tenn. Adv. Feb. 5 and 12.	Feb. 5
Mar. 2	Rope—Memphis, Tenn. Adv. Feb. 5 and 12.	Feb. 5
Mar. 2	Repairs, etc.—Baltimore, Md.	Feb. 12
Mar. 3	Storehouse—Jefferson Barracks, Mo. Adv. Feb. 5 and 12.	Feb. 5
Mar. 3	Pumping Units—Wash., D. C. Adv. Feb. 5 and 12.	Feb. 5
Mar. 5	Post Office—Parkersburg, W. Va. Adv. Feb. 12.	Feb. 12
Mar. 6	Steel Hull—Phila., Pa. Adv. Feb. 5 and 12.	Jan. 22
Mar. 6	Pipeline—Phila., Pa. Adv. Feb. 12.	Jan. 29
Mar. 10	Dam—Mitchell, Neb.	Feb. 5
Mar. 12	Turbines—Denver, Colo.	Feb. 5
Mar. 12	Barge—Wilmington, N. C. Adv. Feb. 12.	Feb. 12
Mar. 12	Steel Bars—Milwaukee, Wis. Adv. Feb. 12.	Feb. 12
Mar. 17	Buildings, etc.—Great Lakes, Ill.	Feb. 12

UNCLASSIFIED

Feb. 17	Boardwalk—Wildwood, N. J. Adv. Feb. 5 and 12.	Feb. 5
Feb. 18	Underpass—Nevada	Feb. 12
Feb. 19	Athletic Field—Long Island City, N. Y.	Feb. 12
Feb. 24	Refrigeration Works, etc.—Auburn, N. Y.	Jan. 29
Feb. 24	Grade Separation—Springwells, Mich. Adv. Feb. 12.	Feb. 12
Feb. 24	Ornamental Street Lighting System — San Gabriel, Calif.	Feb. 12
Feb. 24	Athletic Field, etc.—Scituate, Mass.	Feb. 12
Mar. 4	Fire Alarm System—Ogdensburg, N. Y. Adv. Feb. 12.	Feb. 12
Mar. 4	Fire Sprinklers—Willard, N. Y. Adv. Feb. 5 and 12.	Feb. 12
Mar. 5	Sanitary Works, etc.—Randalls Island (mail New York), N. Y. Adv. Feb. 5 and 12.	Feb. 5
Mar. 23	Estuary Tube—Oakland, Calif.	Feb. 5

MATERIAL AND EQUIPMENT

Feb. 16	Snow Plows—Delaware	Feb. 5
Feb. 16	Iron Castings, etc. — Boston, Mass.	Feb. 5
Feb. 16	Diesel Oil Engine—Wellington, Tex.	Feb. 5
Feb. 16	Sand Grit—New York, N. Y.	Feb. 12
Feb. 16	Asphalt Filler, etc.—Kenosha, Wis.	Feb. 12
Feb. 17	Truck—Waukesha, Wis.	Feb. 12
Feb. 18	Coal Tar—Cincinnati, O.	Feb. 12
Feb. 18	Trucks—West New Brighton, N. Y.	Feb. 12
Feb. 19	Sand, Stone, etc.—Detroit, Mich.	Feb. 5
Feb. 25	Road Material—Freehold, N. J. Adv. Feb. 12.	Feb. 12
Mar. 3	Bituminous Material — Virginia Adv. Feb. 12.	Feb. 12

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Fitchburg—City Council plans new reservoir for water supply. $350,000. D. A. Hartwell, comr. Dept. Pub. Wks.

Mass., Stoughton—Plans extending water system on Washington, Central and Pratt Sts. $15,000. Engineer not selected.

Md., Hagerstown—Making plans filtration plant. C. E. Kountz, archt.

N. C., Franklinton — Plans enlarging waterworks, incl. dam, intake and filter plant. A. S. Joyner, mayor.

La., Donaldsonville — Plans improving waterworks. $60,000.

La., Gretna — Defeated $165,000 bonds for waterworks and sewerage systems. T. Payne, Jefferson Bank Bldg., Algiers, consult. engr. Noted Oct. 23.

La., Jonesville — Voted $40,000 bonds waterworks and electric light system. Noted Jan. 22.

Tenn., Chattanooga — City Water Co. plans 6 or 7 mi. main extension, hydrants, etc., in city and suburbs. $60,000. A. F. Porzelius, 10th and Market Sts., supt. Noted Jan. 15.

Tenn., Milan—Voted $40,000 bonds, extending waterworks and electric light plant. Noted Jan. 29.

Tenn., Nashville — City appropriated $100,000 for new water meter, chemicals for filtration plant, cleaning reservoir basin, etc. H. E. Howse, mayor. Noted Nov. 20.

Mich., Springwells—B. P. Esper, city clk., taking bids and opens same about Feb. 20, 2,500 ft. 36 in. c.i. mains. $25,000. Hubbell, Hartgering & Roth, 2348 Penobscot Bldg., Detroit, engrs.

Minn., St. Paul—Plans watermain extension to Midway industrial dist. $65,000. G. M. Shepard, city engr.

Kan., Norcatur — Election soon $40,000 bonds for waterworks, incl. pumping equipment, tank on tower, distribution lines, etc. C. A. Haskins, 822-24 Finance Bldg., Kansas City, Mo., engr.

Tex., Carrolltown—Election soon $40,000 bonds for sewerage system. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs.

Tex., Comanche—Making plans additional mains, pumping equipment, etc. $70,000 bonds voted. Jno. B. Hawley, 403 Cotton Exch. Bldg., Ft. Worth, engr.

Tex., Lamesa—Making plans waterworks improvements $73,000; also sewerage system $17,000. Hawley & Roberts, Cotton Exch. Bldg., Ft. Worth, engrs. Noted Feb. 5.

Tex., Magnolia Park—Election Feb. 24, $50,000 bonds, waterworks improvements. Engineer not selected.

Tex., Mexia—Voted $40,000 bonds for reservoir. Engineer not selected. Noted Jan. 15.

Tex., Pharr — Voted $20,000 bonds for waterworks improvements, incl. mains, pumping equipment, etc. Engineer not selected.

Tex., Stratford — Voted $20,000 bonds, complete water and light plant, incl. pumping equipment, well, mains, etc. Engineer not selected.

Tex., Teague — Plans election $60,000 bonds, for waterworks. J. B. Hawley, Cotton Exch. Bldg., Ft. Worth, engr.

Waterworks (Continued)

Tex., Wellington — Made preliminary plans extending distribution system. $40,000. L. J. Leggitt, Wellington, engr.

Okla., Lawton—Election Feb. 26, $80,000 bonds for rapid sand filter plant. H. G. Olmsted, 2239 West 18th St., Oklahoma City, engr.

Okla., Tonkawa—Election Feb. 10, $80,000 bonds for dam across Chickasha River, 11,900 f.t 6- to 10-in. c.i. mains, motor driven pumps, settling basins, filter plant, pumping equipment, valves, etc. Ruckel Eng. Co., Interurban Bldg., Hutchinson, Kan., engr. Noted Jan. 8.

Calif., Pasadena—City plans to purchase 200 tons 4, 6 and 8 in. Class "C" c.i. pipe. B. Chamberlain, city clk.

Ont., Hamilton—Making plans extending mains. $50,000. W. L. McFaul, city engr.

Ont., London — Utilities Comn., E. V. Buchanan, genl. mgr., plans extending mains. $100,000.

Ont., Ottawa — Plans 20,000 lin. ft. c.i. mains in various streets, $75,000, and installing ⅝ in., ¾ in. and 1 in. water meters, $30,000. A. F. Macallum, city engr.

Ont., Waterford—Making plans waterworks system, c.i. mains, hydrants, centrifugal pumps, reservoir, etc. $50,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

Mass., Boston—Feb. 18, by Supply Dept., City Hall, 150,000 lb. sidewalks castings, 200,000 lb. frames and covers, and 100,000 lb. iron castings, flanged frames, etc., to Dept. Pub. Wks., Water Serv. F. P. Rock, supt.

Mass., Boston—Feb. 19, by Supply Dept., City Hall, 480,000 lb. gate and hydrant iron, and 57,000 composition castings, to Dept. Pub. Wks., Water Serv. F. P. Rock, supt.

Mass., Springfield—Feb. 26, by Bd. Water Comrs. of Springfield Municipal Water Works, Municipal Bldg., furnishing c.i. water pipe, B. & S. bends, etc., f.o.b. Armory. H. M. King, Supt.; adv. E. N.-R. Feb. 12.

N. Y., Buffalo—Feb. 13, by Comr. Pub. Wks., furnishing 3,000 ⅝ in., 100 ¾ in., 200 1 in. and 25 1½ in. corporation cocks.

S. C., Clinton—Feb. 16, for 8 x 100 x 100 rein-con. raw water settling basin. J. N. Johnston, city engr.

La., Mansura—Feb. 25, by Mayor and Bd. Aldermen, one 50 hp. and one 100 hp. crude oil engines, centrifugal pump, concrete reservoir, elevated tank and tower, etc. F. P. Joseph, Glenmora, consult. engr.; adv. E. N.-R. Feb. 12.

O., Grandview Heights (mail Columbus) —Feb. 18, by E. A. J. Gross, village clk., 2,356 ft. 4 and 6 in. watermains and 1,362 ft. 8 in. sanitary sewer in Ricketts and Ady's Fairday addition and 2nd Ave., also 735 ft. 12- to 15-in. storm sewer in Gladden Rd. Burgess & Niple, 223 East Broad St., Columbus, engrs. Noted Nov. 13.

O., Piqua—Mar. 10, at office H. A. Lines, dir. Pub. Serv., constructing intakes, screen chamber, low service pumping station, etc. W. G. Clark, 1046 Spitzer Bldg., Toledo, and C. P. Hoover, 186 West Spring St., Columbus, consult. engrs.; adv. E. N.-R. Feb. 12.

O., Westerville—See "Sewers."

Wis., Menasha—Feb. 17, by J. F. DeCaro, city clk., approximately 253 tons 6 and 8 in. c.i. mains, etc., in various streets, (city to furnish pipe). To exceed $15,000. A. McMahon, City Hall, engr.

Neb., Fall City—Feb. 25, by City Clerk, concrete pumphouse, 2 centrifugal pumps, 750 and 500 g.p.m. capacity, concrete intake on Nemeha River, etc. Prince-Nixon Eng. Co., Omaha, engrs. Noted Dec. 25.

Okla., Morrison—Feb. 18, by City Clerk, well, tank on tower, pumps, valves, mains, etc., for Water Dept. $27,000. H. G. Olmsted, 2230 West 18th St., Oklahoma City, engr. Noted Feb. 5.

Neb., Stanton—Feb. 17, by W. E. Cook, city clk., one 350 g.p.m. triplex pump, two 8 in. wells, 60 ft. deep, etc.

Calif., Sacramento—Taking bids replacing wooden underdrains with 6,000 lin.ft. galv. steel pipe in north wing of filter beds for filtration plant. A. J. Wagner, city engr.

BIDS RECEIVED

N. Y., Buffalo—W. F. Schwartz, comr. Pub. Wks., filter sand and gravel for filter plant, Contr. 23, from Pitt Constr. Co., Fulton Bldg., Pittsburgh, Pa., $63,900. Noted Jan. 15.

N. Y., Buffalo — Commmissioner Pub. Wks., c.i. pipe and special castings from Bowler Fdry. Co., 4255 East 49th St., Cleveland, O., $99.50 per ton, from J. B. Clow & Sons, 534 South Franklin St., Chicago, Ill., 4 in. pipe $55, 6- to 16-in. pipe $51, and fittings $107.50 per ton; 150 hydrants with 5 ft. stand pipe, from Darling Valve & Mfg. Co., Williamsport, Pa., $10,913; gate valves, from Michigan Valve & Fdry. Co., 3631 Parkinson Ave., Detroit, Mich., $18,018. Noted Jan. 29.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply Gas & Electricity, Municipal Bldg., New York City, Feb. 3, mains in Skillman and 4th Aves., Bliss and Carolin Sts., etc., here, from J. A. Gregory, 351 East 124th St., New York City, $12,209. Noted Jan. 29.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Feb. 3, mains in Barnes, Blondell, Brady, Cromwell, Duryea, Fowler, LaSalle and Manning Aves., from Norton Eng. & Contg. Co., 510 West 149th St., $17,860. Noted Jan. 29.

O., Cincinnati — City, c.i. pipe, special castings and valves, etc., in connection with water distribution system in various streets during 1925, from M. F. Quill & Sons, 4 Gerke Bldg., $84,020. Engrs. est. $75,000.

Wis., Kenosha—C. M. Osborn, city mgr. Jan. 30, from American Cast Iron Pipe Co., 38 South Dearborn St., Chicago, Ill., 496 tons Class B water pipe $48.48 per ton. Noted Jan. 22.

Kan., Cuba—L. V. Opocensky, city clk., Jan. 27, 20,436 ft. 2- to 8-in. c.i. mains in various streets, 8,675 lb. specials, 32 gate valves and boxes, 21 fire hydrants, 50,000 gal. tank on tower, pumping station, etc., from Burt & Tripp, Hutchinson, $27,493. Noted Jan. 22.

Wash., Tacoma—City Comrs., Jan. 20, 4, 6, 8, 18 and 24 in. c.i. pipe for water system, from U. S. Iron & Pipe Fdry. Co., Tacoma, $32,352. Engrs. est. $42,000.

CONTRACTS AWARDED

New York—Bd. Water Supply, Municipal Bldg., Park Row, Centre and Chamber Sts., New York City, constructing Sect. 1 Williamsburg Conduit, portion of city conduits, of Catskill Aqueduct, Contr. 219, to Beaver Eng. Co., 57 Chambers St., New York City, $1,010,000; Sect. 2, in Brooklyn and Queens Boros, Contr. 218, to P. F. Connolly Co., Stapleton, $1,597,121. Noted Feb. 5 and 12.

Pa., Phila. — Dept. Pub. Wks., Bureau Water, Contr. 734, to M. J. McCrudden, 1134 Real Estate Trust Bldg., $9,110; Contr. 735, to M. and J. B. McHugh, 892 North Markoe St., $200,696. Noted Jan. 22.

La., Baton Rouge—Comn. Council, City Hall, pumping station at University Lake, to Rutter & Pannell, Brookhaven, Miss., $7,500. Noted Jan. 15.

O., Cincinnati—Ctiy, furnishing and delivering c.i. pipe, special castings during 1925, for water distribution systèm, to U. S. Cast Iron Pipe Co., Addston, $46,305. Engrs. est. $50,000.

Mich., Detroit—Water Bd. will lay 5,702 ft. 8 in. c.i. mains in Magnolia Blvd., Albion and Wyoming Aves., and 2,641 ft. 6 in. c.i. mains in Heliotrope Ave., by day labor. G. H. Fenkell, 232 East Jefferson Ave., genl. mgr.

Mich., Escanaba — Additional pumping equipment, to Allis Chalmers Mfg. Co., Greenfield Ave., West Allis, Wis., $6,081.

S. D., Faulkton—To Norbeck & Co., Redfield, well $10,485, pump and engine house $950; to Beecher-Cumming Co., 116 South 8th St., Minneapolis, Minn., pump $3,500; to G. B. Tuttle, Mitchell, 3,150 lin.ft. 4 and 6 in. c.i. pipe, about $4,000.

Tex., Edinburg—Hidalgo Water Impvt. Dist. 4, pumping plant, 2,000 hp. full Diesel engines and centrifugal pumps to deliver 337.5 second ft., etc., in connection with irrigation project in Hidalgo Co., to Fairbanks-Morse & Co., North Market St., Dallas, $129,050.

Wash., Port Angeles — For dam, headworks, 37,000 lin.ft. 20 and 24 in. pipe, 6 m.g. concrete reservoir, earth embankment type incl. 1,800 cu.yd. concrete, 4,000 lin.ft. 20 in. pipe, 11,000 lin.ft. 4- to 16-in. wood pipe, to Morse & Wiley, Alaska Bldg., Seattle, $278,000. Engrs. est. $300,000.

Wash., Wapato—City Council, water system, incl. distribution mains, laterals, replacing wood pipe with iron, to R. A. Geary, Yakima, $36,694. Engrs. est. $40,000.

B. C., Point Grey — Municipality, furnishing 3,500 ft. four, 20,000 ft. six, 6,000 ft. eight and 750 ft. ten in. c.i. pipe, to Gordon & Belyea Ltd., 157 Alexander St., Vancouver, $27,575; laying same will be done by day labor. W. B. Greig, 5831 West Blvd., Vancouver, engr.

Sewers

PROPOSED WORK

N. J., Little Falls — Takes bids about April 15, extending sewers and constructing sewage pumping station. $145,000. H. J. Harder, 129 Market St., Paterson, engr.

Tenn., North Chattanooga — Corporation of North Chattanooga plans election $100,000 bonds for sewers in new territory to be annexed. S. Beck, mayor.

O., Barberton—Takes bids in spring storm water sewer in High St. $35,000. H. Alcorn, Barberton, engr.

Mich., Birmingham—Making plans 16,250 ft. 8- to 18-in. vitr. lateral sewers in Baldwin, Hazelwood, Greenwood, Woodland, Ferndale, Oakland and Park Sts., et al. $44,000. H. Starr, village mgr.

Ia., Atkins — Making plans sanitary sewerage system and disposal plant. $30,000. H. R. Green, 417 1st Ave., Cedar Rapids, engr.

Tex., Lamesa—See "Waterworks."

Tex., Magnolia Park—Election Feb. 24, $350,000 bonds for storm sewers and $50,000 bonds for sanitary sewers in various streets. Engineer not selected.

Calif., Hermosa—Plans election $200,000 bonds for sewer laterals.

Calif., San Diego—Common Council plans sewers in South La Jolla and La Jolla Strand, 18,155 lin.ft. 6 and 8 in. concrete pipe, 50 manholes, 20 dead ends, 2 settling tanks, etc. F. A. Rhodes, city engr.

Ont., Hamilton — Making plans storm sewers in Maple Ave. $42,000. W. L. McFaul, city engr.

Ont., Listowel—Plans 10,000 lin.ft. vitr. tile sewers in various streets. $25,000. Engineer not selected.

Ont., Toronto—York Twp. plans 6,700 ft. 36 in. concrete sewer and 300 ft. brick tunnel in Rockliffe Blvd. to Humber River. $75,000. James, Proctor & Redfern, 36 Toronto St., engrs.

Ont., Toronto — York Twp. plans 10,000 ft. 8- to 30-in. vitr. tile and concrete sewers in Caledonia and McRoberts Aves. $15,715, Cherrywood Ave., Rushton Rd. and High St. $16,920, Gilbert and Corby Aves. $11,965. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto—Soon takes bids 12,000 ft. 8 in. and up vitr. tile sanitary sewer in Kane, Blackthorn, Helen, Chambers and Rosethorn Aves. $30,000. R. C. Harris, city engr.

BIDS DESIRED

N. Y., New York—Feb. 16, by J. Miller, pres. Manhattan Boro, Municipal Bldg., sewers in Laurel Hill Terrace, etc.

N. Y., New York—Feb. 19, by H. Bruckner, pres. Bronx Boro., 3rd and Tremont Ave., sewer in Sheridan Ave.

N. J., Dover—Feb. 19, by Sewer Com. of Mayor and Bd. Aldermen, Municipal Bldg., North Sussex St., house connections to sewerage system in Blackwell St., etc. Clyde Potts, 30 Church St., New York City, engr.

O., Grandview Heights (Mail Columbus) —See "Waterworks."

O., Toledo — Feb. 16, by Comrs. Lucas Co., 14,242 ft. 6- to 12-in. vitr. sewers in Wernerts addition, Sanitary Sewer 97, $65,000; 3,650 ft. 6 and 8 in. vitr. sewer in Owen's addition, Sewer 95, $10,161. C. L. Sawyer, Toledo, co. surv. Noted July 10.

O., Westerville—Mar. 5, at office of R. Biehl, city mgr., 2,000 ft. each vitr. sewers c.i. watermains; adv. E. N.-R. Feb. 12.

Ill., Decatur—Mar. 9, by Bd. Trustees Sanitary Dist., Citizens Bank Bldg., 4,200 ft. intercepting sewer, and 1,900 ft. overflow sewer, etc. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, consult. engrs.; adv. E. N.-R. Feb. 12.

Ill., Urbana—Mar. 10, by Bd. Trustees Udbana & Champaign Sanitary Dists., at office of W. G. Spurgin, atty., Masonic Temple, 7,000 ft. 8- to 12-in. sewers. P. W. Wright, pres.; adv. E. N.-R. Feb. 12.

Calif., Burbank—Feb. 17, by City Council, sewers in 96 blocks various streets from Alameda to Walnut Aves., 101,740 ft. 8 in. and 2,516 lin.ft. 10 in. vitr. pipe, 3,228 ft. 8 x 6 in., and 40 ft. 10 x 6 in. vitr. pipe Y or T branches, 7,200 lin.ft. 6 in. vitr. house sewers, etc. A. J. Rose, city engr.

BIDS RECEIVED

N. Y., Buffalo—Comr. Pub. Wks., 42 and 48 in. segment block sewer in St. Lawrence Ave., from J. Ritzman, 84 Longview Ave., $10,990; 27, 30, 36 and 42 in. segment block and 18, 20 and 24 in. tile sewer in Race and Clayton Sts., from J. M. Fahning, Buffalo, $21,700; 10, 12, 15 and 18 in. tile sewer in Okell St., from W. W. Kimmins & Son, Buffalo, $3,959; 42 and 48 in. segment block sewer in Starin Ave., and 10, 12 and 15 in. tile sewer in street running between Choate Ave. and Belvedere Rd., and in Belvedere Rd., from Dar & Co., 654 Main St., $8,890 and $3,914 respectively. Noted Jan. 29.

Calif., Ripon—Ripon Sanitary Dist., constructing sewerage system and sewage disposal plant consisting of 6-8 and 12 in. pipe flush tanks and Imhoff tanks, from W. J. Tobin, 527 Santa Ray Ave., Oakland, $28,600. Noted Jan. 1.

Sewers (Continued)

CONTRACTS AWARDED

O., Akron — City, sewer in Coltsville Sewer Dist. 8, to R. O'Hara, Akron, $29,-750. Engrs. est. $35,000.

Tex., Amarillo—Storm sewer from 10th St. to Lake east of here, to D. S. Reed Constr. Co., Denver, Colo., $22,148. Engrs. est. $25,000.

Wash., Longview—City Comrs., 580 ft. 10 in. and 3,250 ft. 8 in. rein.-con. sewers, etc., in Hemlock St., Kessler Blvd. and Washington Way, to Olympic Constr. Co., 1326 North Lake St., Seattle.

Calif., Santa Barbara — Concrete sewers in Garden and Equestrain Sts., also East Blvd. interceptor sewer, to J. T. Cornwall, 227 Equestrain St., $74,831. Noted Feb. 5.

Waste Disposal

PROPOSED WORK

N. Y., New Dorp (Sta. Staten Island) — J. A. Lynch, pres. Richmond Boro., Boro Hall, St. George, rejected bids Jan. 21, garbage disposal plant, runway furnaces, etc. Noted Jan. 29.

Md., Baltimore—Mayor and City council, having plans prepared 2 story incinerator plant, Ostend and Russell Sts. $100,000. S. Purcell, City Hall. ch. engr.

Ont., Toronto—York Twp., 40 Jarvis St., making plans concrete, brick and steel garbage incinerator, Southworth Ave. $30,000. F. B. Goldike, twp. engr.

BIDS RECEIVED

Mass., Lynn—H. G. Johnson, city purch. agt., City Council Chambers, rein.-con. and brick incinerator plant, from Davis Incinerator Co., 15 East 40th St., New York City, $72,350. Noted Feb. 5.

Bridges

PROPOSED WORK

N. J., Allenhurst—Bd. Freeholders Monmouth Co., Freehold, plans concrete bridge on Main St., here. $35,000. G. K. Allen, Jr., Broad St., Red Bank, engr.

N. J., Matawan—Bd. Freeholders Monmouth Co., Freehold, plans concrete bridge on Main St., here. $25,000. G. K. Allen, Jr., Broad St., Red Bank, engr.

Md., Baltimore—Mayor and City Council having plans prepared concrete and steel bridge on Rogers Ave. $100,000. B. D. Crozier City Hall, engr.

Miss., Biloxi—Harrison Co. election Feb. 28, $450,000 bonds for rein.-con. bridge with 24 ft. roadway and 5 ft. sidewalks, across Back Bay of Biloxi. Engineer not selected. Noted Jan. 29.

Wis., Beloit—City Council making plans concrete or steel bridge over Rock River, at Portland Ave. $100,000-$135,000. Marsh Eng. Co., 205 Masonic Temple, Des Moines, Ia., engrs. Noted Jan. 29.

Minnesota and Wisconsin—Twin Ports Bridge Co., 511 Lyceum Bldg., Duluth, Minn., had plans prepared 200 ft. lift span steel bridge, 24 ft., rein.-con. abutments on pile foundations, across St. Louis River, connecting Duluth, Minn., and Superior, Wis. $500,000. Roland Buck, Inc., 15-16 U. S. Natl. Bank Bldg., Superior, Wis., engr.

Minn., Brushvale—Wilken Co. (Breckenridge), Minn., and Richland Co. (Wahpeton), N. D., plan 100 ft. steel span bridge, 18 ft., with 20 ft. approach on east side, and three 30 ft. approaches on west side, also concrete roadway over Red River of the North, about 1 mi. north of here. $40,000.

Kan., Wichita—Santa Fe R.R. Co., Union Station, H. W. Wagoner, ch. engr., made plans viaduct over railroad tracks at 37th St. and Lawrence Ave., and Sedgwick Co., M. Roseberry, co. engr., made plans for approaches to same. $130,000.

Calif., Wheatland — Yuba Co. (Marysville) and Sutter Co. (Yuba City) plan bridge over Bear River west of here. $40,-000 or more.

BIDS DESIRED

S. C., Charleston—Mar. 5, at office Sanitary and Drainage Comn., 39 Broad St., viaduct over Atlantic Coast Line R.R. and Southern Railway tracks at Five Mile, near here; adv. E. N.-R. Feb. 12.

S. C., Lancaster—Feb. 27, by Bd. Comrs. Lancaster Co., 4 rein.-con. deck girder bridges and culverts. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, N. C., engrs.

Ohio—See "Streets and Roads."

Ia., Marion—Feb. 17, by G. A. Senninger, aud. Lynn Co., at Court House, bridges and culverts in Franklin, Linn, Boulder, Clinton, Spring Grove and Fayette Twps. R. W. Gearhart, Marion, engr.

Arkansas—Feb. 16, by State Hy. Comn., Little Rock, one 80 ft. steel truss and three 20 ft. concrete approach spans on concrete piers and abutments, over Prairie Creek, 52,500 lb. structural steel, 23,163 lb. reinforcing, etc. R. C. Limerick, highway engr.

Tex., Sonora—See "Streets and Roads."

Colorado—Feb. 17, by State Hy. Dept., Denver, 325 ft. steel bridge over Apishapa River, and 30 ft. bridge over nearby canal with gravelled approaches. $70,000. L. D. Blauvelt, State Office Bldg., Denver, engr.

Idaho — Feb. 18, by Commissioner Pub. Wks., Boise, one 114 ft. bridge over New York Canal, and one 108 ft. bridge over Ridenbaugh Canal, both concrete, 24 ft. 563 cy.yd. concrete, 86,444 lbs. reinforcing.

California—Feb. 24, by State Hy. Comn., Sacramento, one 30 ft. and three 60 ft. span, rein.-con. girder bridge over Ventura River, Ventura Co. R. M. Morton, highway engr. Noted July 10.

BIDS RECEIVED

North Carolina — State Hy. Comn., Raleigh, rein.-con. bridges and culverts on States Project 284, Wayne Co. and State Project 642, Iredell Co., from J. S. Bowers, Whiteville, $35,192 and $55,469 respectively. Noted Jan. 22.

S. C., Saluda—See "Streets and Roads."

Missouri—State Hy. Dept., Jefferson City, seven 24 ft. rein.-con. slab spans over stream, Shannon Co., from Summerfield-Jones Co., Billings, $10,359; nineteen 20 ft. rein.-con. slab spans, etc. over overflow Medicine Creek, Livingston Co., from Pittsburg-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., $24,-681; two 80 ft. steel truss spans, etc. over Medicine Creek D. D., Livingston Co., from Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, $35,223; one 20 ft. rein.-con. arch span over Ervin Creek, and one 80 ft. rein.-con. arch span over Bear Creek, both Polk Co., from R. H. Sharp, Reeds Spring, $2,899 and $8,457 respectively; one 80 ft. steel truss span, etc. over Sugar Creek, Lewis Co., from Farrell & Dubron-Millett, Linn, $11,781; one 130 ft. steel truss span, etc. over Bear Creek, Cedar Co., from C. A. Christy, Warsaw, $8,813; three 35 ft. rein.- con. deck girder spans, etc. over Piney Creek, Oregon Co., from C. F. Johnson & Sons, Buffalo, $5,538; three 18 ft. rein.-con. slab spans etc. over Culp Branch, Oregon Co., from A. L. Cook, Ottawa, $3,239. Noted Jan. 22.

CONTRACTS AWARDED

N. Y., New York—M. W. Mills, comr. Plants & Structures, Municipal Bldg., Roosevelt Ave. Bridge over Flushing River, to A. McMullen Co., 50 Church St., $2,625,-000. Noted Jan. 22.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, bridge to have 19 concrete girder approach and one 100 ft. steel truss spans over Harpath River, Federal Aid Project 205, Cheatham Co., to Montgomery & Parker, Rockport, Ind., $62,051. Noted May 1.

Tenn., Nashville—City and Louisville & Nashville R.R. Co., 10th and Bway., Louisville, Ky., will build concrete viaduct over railroad tracks at Chestnut St., by force account. $32,000. W. W. Southgate, city engr. W. H. Courtnay, ch. engr. railroad. Noted July 17.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, three 50 ft., two 9 ft. and one 50 ft. concrete span bridges, on Route 23, Sect. 23-B, McHenry Co., to Lyon & Gearhart, Robinson, $23,-071; 2 concrete bridges and 1 concrete bridge extension, on Route 30, Sect. 10-B, Stark Co., to A. P. Munsen, Marion, Ia., $29,882. Noted Nov. 27.

Dam

PROPOSED WORK

N. C., Franklinton—See "Waterworks."

Calif., Grass Valley — See "Excavation, Drainage, Irrigation, Levees."

Calif., Hollister—See "Excavation, Drainage, Irrigation, Levees."

Railways

PROPOSED WORK

Oklahoma—Oklahoma Union R.R. Co., 103 West 4th St., Tulsa, making preliminary surveys 26 mi. railroad extension from Mounds to Okmulgee. $275,000. R. V. Martin, Sapulpa, genl. mgr. W. Matthews, ch. engr.

Ontario—Temiskaming & Northern Ontario Ry., North Bay, plans extending Kirkhead Lake Branch into Rouyn Mining Dist., 20 mi. $800,000. S. B. Clement, ch. engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Nebraska—Dixon Co. (Ponca) and Cedar Co. (Hartington) plan reclaiming 20,000 acres, incl. drain ditch 20 mi. long, 25-30 ft. wide on top. $200,000. H. Rettinghouse, 923 East Dakota Ave., Sioux Falls, S. D., engr.

Calif., Grass Valley — Nevada Irrigation Dist. plans election $7,200,000 bonds irrigation works, incl. Mountain Division, Jackson Meadows Development, rock fill dam 143 ft. high, with roadway, outlets and controls, etc., $1,566,840; Milton Bowman Division, 23,400 ft. tunnel, conduits, etc., $1,181,000; Bowman and Spaulding conduit and outlets, $975,600; 590,600 lin. ft. canals also flumes, check gates, diversion dam, etc., $1,829,000. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr.

Calif., Hollister — Hollister Irrigation Dist. plans election $1,500,000 bonds for canal systems, 3 earth filled and 2 rein.-con. multiple storage dams, etc. A. N. Burch, Hollister, engr.

Calif., Modesto — Plans election $25,000 bonds, ditch and canal lining, for Modesto Irrigation Dist.

Ont., Parkhill—F. W. Farncombe, engr., Dominion Savings Bldg., London, takes bids about June 1, dredging Sable River, about 7 mi. cut, here, for McGillivary Twp. $75,000.

Ont., Saulte Ste. Marie — Dept. Pub. Wks., Parliament Bldg., Ottawa, plans excavating, dredging and deepening harbor channel and locks, here. $30,000. K. M. Cameron, Hunter Bldg., Ottawa, engr.

BIDS DESIRED

Calif., Oroville — Feb. 18, by Directors Oroville-Wyandotte Irrigation Dist., ditch cleaning and 1,000 cu.yd. earth, 1,000 cu. yd. loose and 2,000 cu.yd. solid rock excav.; also 1,725 ft. continuous r.r. stave or riveted slip-joint pipe and fittings, and 60 tons concrete pipe. S. J. Norris, Oroville, engr. for district.

Calif., San Francisco—Feb. 19, by State Bd. Harbor Comn., Ferry Bldg., dredging, rock work, piling, etc., Islais Creek Reclamation project. $500,000. F. G. White, Ferry Bldg., ch. engr. Former bids returned unopened. Noted Dec. 18.

Calif., Waterford—Waterford Irrigation Dist., taking bids 2.5 mi. canals, 9,000 cu. yd. earth and soft rock excav.

BIDS RECEIVED

N. J., Trenton—Bd. Commerce & Navigation, State Hy. Dept., Trenton, Feb. 3, dredging section of inland waterway to connect Barnegat Bay with Manasquan Inlet, Monmouth Co., from Delaware Dredging Co., 139 South 3rd St., Phila., Pa., at $0.64 per sq.yd. Noted Jan. 15.

CONTRACTS AWARDED

Calif., Merced—Directors Merced Irrigation Dist., constructing and enlarging canals, Schedule 1, 110,000 cu.yd. excav., and Schedule 5, 38,000 cu.yd. excav., to J. Phillips, 637 Santa Ray Ave., Oakland, at $0.14 per cu.yd., total $15,400 and $5,320 respectively; Schedule 2, 27,000 cu.yd. excav., to C. E. Murray, Modesto, $0.22, total $5,940; Schedule 3, 40,000 cu.yd. excav. and Schedule 4, 35,000 cu.yd. excav., to M. J. Bevanda, Fresno, at $0.1115 and $0.125 per cu.yd., total $4,600 and $4,375 respectively; Schedule 6, 2,000 cu.yd. excav. and 13,000 sq.ft. concrete lining, to Carlson Bros., Turlock, $1,750; Schedule 7, 2,000 ft. 30 in. concrete pipe, to Merced Concrete Pipe Co., Merced, $7,802; Schedule 8, furnishing 120 ft. Oregon pine and 140 raw wood timber, to Redwood Mfg. Co., Hobart Bldg., San Francisco, $5,088. Noted Feb. 5.

Calif., Tracy—Banta—Carbona Irrigation Dist., San Joaquin Co., W. Schlossman, secy., to G. Thoming, Jr., Patterson, main lateral system, approximately 150,555 ft. canal, 6 ft. bottom, average cut 4 ft., 260,-000 cu.yd. earth embankment $0.14 per cu.yd., 8 in. drainage culverts (owner furnishes pipe) $600, extra work at cost plus 10%.

Streets and Roads

PROPOSED WORK

Mass., Newton (Boston P. O.) — H. E. Warren, 920 Centre St., making plans laying out and constructing Glen and Westminster Rds. $25,000. H. W. Morton, 308 Boylston St., Boston, engr.

Streets and Roads (Continued)

Mass., Norwood—Bd. of Selectmen plans widening Nichols St. and extending and constructing Nichols and Elliot Sts. $25,000. Engineer not selected.

N. J., Princeton — Boro. Council plans paving and improving various streets. $50,000. B. Franklin, pres. Engineer not selected.

Pa., Lewistown—Plans brick or concrete paving 4,000 ft. Valley, Oak, East and West Walnut Sts., 22 ft. $40,000. H. E. Fetterolf, secy. boro council.

Md., Baltimore — Making plans sheet asphalt paving and widening Pennsylvania Ave., York, Belair and Harford Rds. S. Rowland, 214 East Lexington St., acting chn. Paving Comn.

Fla., Madison—Plans election $20,000 bonds for paving various streets. Total cost $60,000. E. J. Harris, mayor.

Miss., Gulfport — Harrison Co. election Feb. 28, $750,000 bonds, concrete or asphalt surfacing 39 mi. various roads, and $300,000 bonds, gravel or crushed oyster shell surfacing 66 mi. various roads. Engineer not selected. Noted Feb. 5.

Miss., Jackson—Hinds Co. voted 2,000,000 bonds for road work. Noted Jan. 22.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, takes bids about April 1, grading, bridges, etc., on 15 mi. Helenwood-Kentucky State line Rd., Scott Co. J. G. Creveling, highway comr. Noted Oct. 30.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 5 mi. Bluff City-Carter Co. line Rd., Sullivan Co., and 12 mi. Cleveland-McMinn Co. line Rd., Bradley Co. J. G. Creveling, highway comr.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, plans improving highway from Herbert Domain (State Reserve Forest), to Nashville, Chattanooga & St. Louis Ry. tracks. $25,000. A. Peay, Nashville, gov. J. G. Creveling, highway engr.

Tenn., Pulaski — Making plans rock asphalt on limestone macadam surfacing various streets. $100,000. B. H. Klyce & Co., 4th and 1st. Natl. Bank Bldg., Nashville, engrs.

O., Cleveland—Cuyahoga Co., takes bids in summer, brick paving 1 mi. Pearl Rd. $262,500. F. Lander, Court House, engr.

O., Massillon — Takes bids in spring improving Seneca St. $25,000; Overlook Dr. $25,000-$40,000; Milton St. $35,000. C. E. Rice, Massillon, engr.

Mich., Detroit — Making plans grading and paving with 3½ in. sheet asphalt on 8 in. concrete, 1,490 sq.yd. Gardendale Ave. $7,450, 4,180 sq.yd. Canterbury Ave. $20,900, 6,420 sq.yd. Pembroke Ave. $32,100, 1,960 sq.yd. Sheffield Ave. $9,800, 3,230 sq.yd. Shrewsbury Ave. $16,150, 7,776 sq.yd. Beaconsfield Ave. $38,880, 14,208 sq.yd. La-Salle Ave. $71,040, 2,274 sq.yd. Fordham Ave. $11,370, 6,364 sq.yd. Holmur Ave., Sect. 4 $31,820, 5,616 sq.yd. Prairie Ave., Sect. 3 $28,080, 2,860 sq.yd. Sharon Ave. $14,300, 1,948 sq.yd. Concord Ave. $9,740, 8,746 sq.yd. Quincy Ave. $43,730, 2,080 sq.yd. Gladys Ave. $10,400, 2,612 sq.yd. Hawthorne Ave. $13,060, 4,636 sq.yd. Wildemere Ave. $23,180, 1,180 sq.yd. Waverly Ave. $5,900, 2,410 sq.yd. Burt Ave. $12,050, 4,502 sq.yd. Bedford Rd. $22,510, 8,380 sq.yd. Fernhill Ave. $41,900, 748 sq.yd. Otsego Ave. $3,740, 5,176 sq.yd. Harford Ave. $25,870, 2,496 sq.yd. Birwood Ave., Sect. 1 $12,480, 7,988 sq.yd. Gallagher Ave. $39,940, 5,932 sq.yd. Lenox Ave. $29,660, 894 sq.yd. Blair Ave. $4,470, 1,860 sq.yd. Curt Ave. $9,200, 6,278 sq.yd. Carrie Ave., Sect. 2 $31,390, 4,070 sq.yd. Forestlawn Ave. $20,350, 2,256 sq.yd. Charleston Ave. $11,280, and 3,590 sq.yd. Birwood Ave. $17,950. G. Jerome, city engr.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids, concrete surfacing 6.1 mi. Route 43-A, Menard Co., 11.5 mi. Route 22, Sect. 20, Lake Co., 6.45 mi. Route 5, Sect. 31, Jo Daviess Co., and 4.28 mi. Route 3, Sect. 5, Cass Co. Noted Nov. 27 and Dec. 11.

Ill., Alton — Soon takes bids grading, hard-surfacing, etc. Brown St. $40,000. J. E. Schwaab, City Hall, engr.

Missouri—State Hy. Dept., Jefferson City, received no bids Jan. 31, 18 ft. asphaltic concrete, oil asphalt on stone surfacing 4.711 mi. St. Joseph-Gower Rd., Buchanan Co., and 113.76 mi. St. Joseph-Grayson Rd., Clinton Co.; 18 ft. amesite on sledged stone surfacing 5.686 mi. St. Joseph-Grayson Rd., Clinton Co., and 4.711 mi. St. Joseph-Gower Rd., Buchanan Co.

Tex., Corsicana — Making plans asphalt surfacing 10 blocks 13th, 2nd, 10th, West 7th and East 7th Sts. W. W. McClendon, Corsicana, engr.

Tex., Hebbronville—Jim Hogg Co. takes bids after Feb. 10, grading, etc., 6.91 mi. State Highway 12-A, Federal Aid Project 436-G, 16 ft., $35,000; grading, bridging and caliche surfacing 4.28 mi. State Highway 12-A, 18 ft., $27,000. E. J. Foster, 261 Valdez Bldg., Laredo, engr. Noted Jan. 8.

Tex., Kaufman — Kaufman Co. election Feb. 21, $65,000 bonds, improving highway radiating from here. Engineer not selected. C. Ashworth, judge.

Tex., Magnolia Park—Election soon $250,000 bonds, street improvements. Engineer not selected.

Tex., Pharr—Voted $25,000 bonds, surfacing various streets. Engineer not selected.

Tex., Yorktown—Making plans graveling and sewers in various streets. $30,000. Address City Secretary.

Okla., Ralston—Defeated $33,000 bonds, grading and paving 4 blocks Main St. and project will be dropped. Noted Dec. 25.

Arizona—State Hy. Dept., Phoenix, making plans asphaltic concrete paving 5 mi. Benson-St. David Rd., Cochise Co. W. C. LeFebvre, highway engr.

California—Los Angeles Co. (Los Angeles), making preliminary surveys paving approximately 30 mi. Atlantic Ave., between Pasadena and Long Beach, approximately 100 ft. G. Jones, Hall of Records Bldg., co. engr.

Calif., Alhambra—Making plans paving Main St. and Valley Blvd. from east to west city limits. $230,000 or more. M. H. Irvine, city engr.

Calif., Palo Alto—Made plans improving Alma, Bryant, Cowper, University Aves., etc., 500,000 sq.ft. concrete and 150,000 sq. ft. asphalt paving, 20,000 lin.ft. concrete curbs. To exceed $175,000. J. F. Bxybee, Jr., city engr. Noted Dec. 25.

Calif., San Diego—Common Council plans improving Bancroft, Kalmia, Maple and Nutmeg Sts., etc., 15,910 cu.yd. excav., 14,973 cu.yd. embankment, 11,344 ft. concrete curbing, 38,959 sq.ft. concrete sidewalks, etc. F. A. Rhodes, city engr.

Ont., Amherstburg—Anderdon Twp. plans to expend $26,000 for gravel and macadamizing various roads. A. C. Maillaux, clk.

Ont., Barrie—Town Council plans concrete pavements. $40,000.

Ont., Chatham—Kent Co. Council plans concrete paving Raleigh-Harwich town line. $50,000. A. Colby, County Bldgs., engr.

Ont., Guelph — Wellington Co. Council making plans concrete surfacing 4 mi. Guelph-Hamilton Highway, 25 ft. $110,000. S. Nicklin, Guelph, co. engr.

Ont., Leamington — Plans 12,000 sq.yd. permanent paving various streets. $35,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Ottawa—Plans paving in Lindenlea Dist., O'Connor St. from Pretoria to 5th Aves., Rideau St. from Charlotte to Cummings Bridge, and Preston St. from Adeline to Carling St. $100,000. A. F. Macallum, City Hall, engr.

Ont., Ottawa—Carleton Co. takes bids in early spring, constructing new roads. $144,500. Patterson & Byrne, 71½ Sparks St., engrs.

BIDS DESIRED

N. Y., New York—Feb. 16, by J. Miller, pres. Manhattan Boro., curbing and flagging road from Northern Ave. to point 190 ft. westerly therefrom, also Chittenden Ave.; repaving Amsterdam and 34th St.; widening and repaving 14th St.

New Jersey—Mar. 2, by State Hy. Dept. Trenton, constructing Route 2 Sect. 4A, Burlington Co., Route 4 Sect. 27, and Route 4 Sect. 28, both Ocean Co. A. L. Grover, secy.; adv. E. N.-R. Feb. 12.

Pa., Greensburg—Feb. 27, at office Comrs. Westmoreland Co., reconstructing Bolivar-West Fairfield Rd., in Fairfield Twp. W. A. Arter, co. controller.

Wis., Menasha—Feb. 17, by J. F. DeCaro, city clk., curbing, guttering and concrete paving approximately 30,000 sq.yd. Tayco and Elm Sts. To exceed $25,000. A. McMahon, City Hall, engr.

D. C., Wash.—Mar. 3, by Dist. Comrs., Room 509 District Bldg., grading, improving and concrete paving various streets, roads and avenues; adv. E. N.-R. Feb. 12.

W. Va., Bluefield—Mar. 3, at office of C. E. Ridley, city mgr., Coal & Coke Bldg., removing old macadam surface, grading, concrete surfacing, etc., in Project 1, and grading, one course concrete surfacing, etc. Project 2; adv. E. N.-R. Feb. 12.

S. C., Winnsboro—Feb. 17, at office Fairfield Co. Hy. Comn., improving 12 mi. Longtown Rd., 84,055 cu.yd. common and 200 cu.yd. rock excav., 37,854 cu.yd. topsoil or 29,768 cu.yd. sand clay surfacing Lockwood, Greene & Co., Winnsboro, engrs.

Fla., Bartow—Feb. 16, by Bd. Comrs., Polk Co., A. T. Mann, chn., sheet asphalt paving 47.8 mi. road in Special Road and Bridge Dist. 11, 15 ft. $1,200,000. E. A. Plath, Bartow, engr.

Ohio—Feb. 20, by Dept. Highways and Pub. Wks., Columbus grading bridging and paving 47.352 mi. roads in Allen, Butler, Columbiana, Cuyahoga, Fairfield, Franklin, Madison, Ottawa, Scioto, Tuscarawas, Warren and Wyandot Counties, also bridge in Knox Co. A. V. Donaheys, div. highways.

O., Grandview Heights (mail Columbus) —Feb. 18, by E. A. J. Gross, village clk., improving with bituminous stone macadam, 400 ft. Gladden Rd., 850 ft. Timberman Rd., 1,336 ft. Haines Ave., 1,016 ft. Hope Ave., all 25 ft., asphaltic concrete or sheet asphalt paving 1,200 ft. Urlin Ave., 30 ft. Burgess & Niple, 223 East Broad St., Columbus, engrs.

Ill., Galesburg—Feb. 14, by Bd. Local Impvts., grading, curbing vitr. brick on 4 in. concrete surfacing, etc. 6,496 mi. East Knox St., $27,533, and 3,940 sq.yd. East Barren St. A. L. Richey, City Hall, engr. Noted Dec. 11.

Wis., Juneau—Feb. 24, by O. A. Schumacher, city clk., grading, curbing, guttering and paving 29,088 sq.yd. various streets, reinforced vibrolithic, rein.-con., creosoted block or Warrenite. To exceed $25,000. E. B. Parsons, Jefferson, engr.

Minn., Duluth — Mar. 30, by W. H. Tischer, city comr., curbing, concrete sidewalks and concrete paving 2,900 ft. Michigan and Superior Sts., 32 and 40 ft. respectively. $63,629. J. Wilson, city engr.

Arkansas—Feb. 20, by State Hy. Dept., Little Rock, grading and concrete surfacing Sect. A, Little Rock-Spring Lake Highway, Pulaski Co., 18,800 cu.yd. earth, 1,500 cu.yd. loose rock and 850 cu.yd. solid rock excav., 53,000 sq.yd. 5 in. concrete, etc. R. C. Limerick, highway engr.

Tex., Sonora—Feb. 17, by A. Johnson, judge Sutton Co., grading and surfacing 2.43 mi. with gravel and 4.45 mi. with crushed stone, and bridging 7.86 mi. State Highway 27, Federal Aid Project 425-A, 18 ft., $83,400; grading, crushed stone surfacing and bridging 10.84 mi. State Highway 27, Federal Aid Project 425-B, 18 ft., $82,800; grading, surfacing 5.19 mi. with gravel and 6.75 mi. with crushed stone and bridging 11.25 mi. State Highway 27, Federal Aid Project 425-C, 18 ft., $130,000. Noted Jan. 15.

Okla., Healdton — Taking bids grading and sheet asphalt surfacing 5,700 sq.yd. Central Ave. $28,816. C. Coon, 1820 North Bway., Oklahoma City, engr.

Idaho — Feb. 20, by District Engineer, Lewiston, or Commissioner Pub. Wks., Boise, grading and crushed stone surfacing, etc., 7.48 mi. Lewis and Clark Highway, Federal Aid Project 83-A. $95,000.

Idaho—Feb. 21, by District Engineer, Coeur d'Alene, or Commissioner Pub. Wks., Boise, grading and temporary surfacing 3.08 mi. Coeur d'Alene-Yellowstone Trail, Federal Aid Project 93-A, Kooteni Co. $50,000.

Nevada — Feb. 18, by State Hy. Comn., Carson City, improving road between Vista and Hafed, Washoe Co., 100,000 cu.yd. excav., 580 cu.yd. hand placed rock fill, 256,311 sta.yd. overhaul, etc. Owner furnishes gravel and sand for cement. G. W. Borden, Heroes Memorial Bldg., Carson City, highway engr.

Nev., Reno — City Council taking bids improving various streets, 65,000 sq.ft. concrete sidewalks, 39,000 ft. 8 ft. 6 in., and 4,000 ft. 2 ft. 6 in. concrete curb and gutter, 3,200 ft. 8 ft., and 500 ft. 6 ft. concrete gutter, 15,000 sq.ft. concrete paving. H. Chism, city engr.

Wash., Kalama—Mar. 2, by Comrs. Cowlitz Co., grading and gravel surfacing 8,556 sq.yd. Coweeman Rd. E. A. Middlebrook, Kelso, engr.

Calif., Eureka—Supervs. Humboldt Co., taking bids grading 2.5 mi. road between Arcata and Blue Lake, 17,000 cu.yd. excav. A. J. Logan, co. surv.

Calif., San Diego — Feb. 24, by A. H. Wright, city clk., improving 6th and Date Sts., 233,776 sq.ft. 2 in. asphaltic concrete on 3 in. bituminous, 2,641 sq.ft. concrete sidewalks, 915 ft. concrete curbs, etc. F. A. Rhodes, engr.

Calif., San Francisco—Feb. 18, by Bd. Pub. Wks., grading, artificial stone walks, concrete curbing, asphaltic concrete paving, etc., Judah St. between 31st and 41st Aves., $100,000 or more; grading and asphaltic concrete paving, etc., De Long St. between Orizabo and Liebig Sts., etc., to

Streets and Roads (Continued)

exceed $40,000. M. M. O'Shaughnessy, city engr. Noted Dec. 25.

BIDS RECEIVED

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, Feb. 4, asphalt repaving East 5th St., from M. J. O'Hara, 557 3rd St., $48,587, Sumner and Wilson Aves., from Highway Impvt. & Repair Co., 50 Church St., New York City, $166,388 and $35,015 respectively; asphalt resurfacing by heater method Adelphi St. and Foster Ave., from Cranford Co., 52 9th St., $82,188 and $84,556 respectively. Noted Jan. 29.

N. Y., St. George — Feb. 19, by J. A. Lynch, pres. Richmond Boro., grading and concrete paving Hylan Blvd.

S. C., Orangeburg—Orangeburg Co., sand clay surfacing 13.8 mi. State Route 1, State Project S-543, from G. F. Bamberg, Bamberg, $52,225. Noted Dec. 18.

S. C., Saluda—Saluda Co., grading 4.9 mi. State Route 19, State Project S-569-A, from M. M. Dorn, Augusta, Ga., $40,389; 153 ft. rein-con. bridge on above, from Rosier & Bramlet, Coronaca, $9,556. Noted Jan. 8.

S. C., Winnsboro—Fairfield Co., topsoil surfacing 9.4 mi. State Route 22, State Project S-535-A, from Nichols Contg. Co., 1 La France St., Atlanta, Ga., $95,871. Noted Jan. 8.

O., Cleveland — Grading, curbing and paving with (a) brick or (b) asphalt, from Baldwin Bros., 4500 Euclid Ave., Benham Ave. (a) $46,000 (b) $36,480, Parkhill Ave. (a) $45,303 (b) $37,158, Wayburne Ave. (a) $20,914 (b) $16,498, East 110th St. (a) $59,475 (b) $48,397, work involves 35,715 sq.yd. vitr. brick or asphalt paving, 23,988 lin.ft. stone curbing, 25,150 lin.ft. 4 in., drain tile gutter, 21,350 cu.yd. earth excav; from Roehl Bros., Denison Ave., West 110th St. (a) $24,760 (b) $20,513, Fortune Ave. (a) $52,709 (b) $43,161, Fidelity Ave. (a) $16,653 (b) $13,068, St. Mark Ave. (a) $40,237 (b) $33,273, West 136th St. (a) $29,094 (b) $22,933, 31,170 sq.yd. vitr. brick or asphalt paving, 19,540 lin.ft. stone curbing, 20,533 lin.ft. 4 in. drain tile gutter, 21,850 cu.yd. earth excav.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to Cameron, Joyce, Smith Elder Co., Keokuk, Ia., concrete surfacing 9.57 mi. Route 3, Sects. 11, 13 and 14, Rock Island and Whiteside Counties $185,000, 4.15 mi. Route 3, Sect. 25, Mercer Co. $91,194, 10.15 mi. Route 30, Sects. 11 and 14, Stark and Henry Counties $193,153, grading 46,380 cu.yd. Route 30, Sect. 10-A, Stark Co., incl., $25,762; to E. J. Eiff Co., Quincy, concrete surfacing 6.84 mi. Route 36, Sect. 10, Adams Co., $136,413; to Indiana Road Paving Co., Rochester, Ind., 22.29 mi. Route 16, Sects. 8, 9, 10 and 11, Moultrie, Coles and Shelby Counties, $407,900; to W. C. Meneely Co., 1.67 mi. Route 2, Sect. 34, DeWitt Co., $41,521, to J. F. Kelly & Co., Terre Haute, Ind., 12.1 mi. Route 16, Sects. 3, 4 and 5, Edgar and Coles Counties, $236,700, to O. Arnold, Casey, Ill., 8.18 mi. Route 33, Sect. 1, Crawford Co., $152,426, to Smith Bros., Inc., Amer. Exch. Bldg., Dallas, Tex., 29.92 mi. Route 9, Sects. 19-23 (inclusive), Ford and McLean Counties, $618,000; to Stephens Bros. & McCree & Co., St. Paul, Minn., 6.35 mi. Route 27, Sect. 4, Carrol Co., $147,048, and grading 153,220 yds. Route 36, Sects. 7-A, and 8-A, Adams Co., $95,630, to Divine Constr. Co., Watseka, grading and concrete paving 9.86 mi. Route 39, Sects. 10 and 11, DeWitt and Piatt Counties, incl. three 35 ft. girder and one 70 ft. span steel bridge, $227,831. Noted Nov. 12 and Feb. 11.

Missouri—State Hy. Dept., Jefferson City, Jan. 31, from Bryant Paving Co., Waterloo, Ia., (a) 18 ft. asphaltic concrete fluxed natural asphalt on concrete (b) 18 ft. concrete (c) 18 ft. asphaltic concrete oil asphalt on concrete paving, St. Joseph-Grayson Rd., Clinton Co., 2.685 mi. (a) $52,043 (b) $32,617 (c) $48,087, 3.975 mi. (a) $59,729 (b) $87,720 (c) $82,016, 1.715 mi. (a) $36,023 (b) $23,423 (c) $33,457, 3.001 mi. (b) $37,849 (c) $54,741, St. Joseph-Gower Rd., Buchanan Co., 4.711 mi. (a) $98,632 (b) $63,761 (c) $91,608; from Tibbetts Constr. Co., Edrington Bank Bldg., Ft. Worth, Tex., 18 ft. amesite on concrete surfacing 8.691 mi. St. Joseph-Grayson Rd., Clinton Co., $224,757, 4.711 mi. St. Joseph-Gower Rd., Buchanan Co., $125,556; from Land & Skibred, St. Joseph, grading and 18 ft. asphaltic concrete oil on sledged stone surfacing 4.716 mi. St. Joseph-Grayson Rd., Clinton Co., $120,241, 18 ft. asphaltic concrete oil on sledged stone surfacing 3.975 mi. St. Joseph-Grayson Rd., Clinton Co., $107,244; from A. A. Davis & Co., Gr. Exch., Oklahoma City, Okla., 30 ft. grading 1.614 mi. Summerville-Mt. View Rd., Texas Co., $27,611, grading and 12 ft. gravel surfacing 3.133 mi. Stockton-Fairplay Rd., Cedar Co., $32,715, 12 ft. gravel surfacing 4.489 mi. road from Elsinore south, Carter Co., $12,559; from Land Constr. Co., St. Joseph, grading and 18 ft. asphaltic concrete surfacing 3.351 mi. Edinburg-Trenton Rd. $139,131, 18 ft. asphaltic concrete surfacing 2.423 mi. road from Edinburg west, $80,072, both Grundy Co.; from J. P. Harlin, West Plains, 30 ft. grading 3.92 mi. road from Alton east, Oregon Co. $42,089, 12 ft. gravel surfacing 2.596 mi. road from Gainesville east, Ozark Co. $9,847; from E. C. Johnson, Carrollton, grading and 18 ft. rock ashalt surfacing 2.423 mi. road from Edinburg west, $68,110, 18 ft. rock asphalt surfacing 3.995 mi. Edinburg-Trenton Rd. $114,418, both Grundy Co.; from L. A. Woods Constr. Co., Smithville, 18 ft. amesite on sledged stone surfacing 3.975 mi. St. Joseph-Grayson Rd. $103,296, 1.715 mi. St. Joseph-Grayson Rd. $43,439, both Clinton Co.; from J. L. Simons, La Plata, grading 4.54 mi. St. Joseph-Hannibal Rd., Livingston Co., $13,590, from F. F. Eberhardt Paving Co., Salina, Kan., 3.975 mi. St. Joseph-Grayson Rd., Clinton Co. $12,030, from R. P. Harper Constr. Co., Leona, Kan., 4.032 mi. St. Joseph-Chillicothe Rd., Livingston Co. $29,970, from Thomas & Johnston Constr. Co., Doniphan, 2.981 mi. road from Winona east, Shannon Co. $31,226, from Gaines Bros. & Co., Fairland, Okla., 4.898 mi. Warrensburg-Higginsville Rd., Johnson Co. $42,488, from T. J. Morris, Oregon, 2.936 mi. road from Savannah west, Andrew Co. $24,115, from Summerfield-Jones Co., Billings, 1.454 mi. road from Thayer south, Oregon Co. $12,928, from A. T. Patterson, Kansas City, 2.685 mi. St. Joseph-Grayson Rd., Clinton Co., and 4.711 mi. St. Joseph-Gower Rd., Buchanan Co. $4,535; from Kiefner & Geile, Perryville, 12 ft. gravel surfacing 3.094 mi. road from Elsinore south, Carter Co., $15,397; from F. T. O'Dell, New London, 16 ft. gravel surfacing 3.864 mi. Canton-Monticello Rd., Lewis Co. $46,562, from McCann Bros. & Huffman, Grand Tower, Ill., 2.257 mi. road from Diehlstadt north and south, Scott Co., $27,954; from Wilson Constr. Co., Warrensburg, 20 ft. gravel surfacing 3.995 mi road from Warland south, Clark Co., $1,701; from Harrison Constr. Co., 413 Kraft Bldg., Des Moines, Ia., 18 ft. concrete surfacing 2.423 mi. road from Edinburg west, Grundy Co. $68,443, from S. J. Groves & Sons Co., Montreal and Cleveland Aves., Minneapolis, Minn., 3.351 mi. Edinburg-Trenton Rd., Grundy Co., $111,080; from Metropolitan Paving Co., 7th and Olive Sts., St. Joseph, 18 ft. asphaltic concrete fluxed native asphalt on concrete paving 3.001 mi. St. Joseph-Grayson Rd., Clinton Co., $68,041; from Hanlon & Okes, Cortlandt and Hyacinth Sts., St. Paul, Minn., 18 ft. amesite on concrete surfacing 2.685 mi. St. Joseph-Grayson Rd., Clinton Co., $84,737. Noted Jan. 22.

O., Cleveland—From Gould & Mayback, 16220 Saranec Rd., paving with (a) asphalt or (b) brick, Darley Ave. (a) $16,855 (b) $21,212, Paxton Rd. (a) $7,953 (b) $10,000, Wagner Ave. (a) $44,380 (b) $50,261, Avalon Rd. (a) $9,547. Work involves 8,695 sq.yd. vitr. brick or asphalt, 5,735 lin. ft. stone curbing, 4,855 lin. ft. 4 in. drain tile gutter, and 5,590 cu.yd. excav.

Tex., Plano—Paving with (a) 3 in. brick on 5 in. concrete (b) 2½ in. brick on 5 in. concrete (c) 6 in. rein.-con. various streets, from Thurber Paving Co., F. & M. Bank Bldg., Ft. Worth, (a) $26,408; from Standard Paving Co., Dallas, (b) $27,684; from D. S. Talliaferro, Sherman, (c) $123,483.

Tex., Waxahachie—Ellis Co., surfacing with native limestone base 45 mi. lateral roads in Rd. Dist. 1, 15 ft., from Purvis & Loury, Ft. Worth, $144,946. Engrs. est. $150,000.

CONTRACTS AWARDED

Massachusetts — Dept. Pub. Wks., Div. Highways, Boston, rein.-con. paving 17,724 ft. highway in Lenox and Lee, to L. C. Carchia & Co., Bellevue St., West Roxbury, $202,000. Noted Feb. 5.

N. Y., Brooklyn — J. A. Guider, boro. pres., Boro Hall, asphalt paving Gold and Ridgwood Aves., to Borough Asphalt Co., 1301 Metropolitan Ave., $26,485, and $47,709 respectively; New York Ave., to Brooklyn

SUBWAY—NEW YORK, N. Y.

Following are lowest three bids opened by Bd. Transportation, Municipal Bldg., Jan. 26, for constructing subway in Washington Heights, Sect. 3-A, Route 78, from 112th to 122nd Sts., (A) Heyman & Goodman Co., 140 Wadsworth Ave.; (B) Frederick L. Cranford, 149 Remsen St., Brooklyn; (C) The Mason Co., Inc., 114 Liberty St. The unit bids are as follows:

	A	B	C
190,000 cu.yd. earth excavation	$12.00	$12.45	$12.70
9,300 cu.yd. earth excavation for sewers	12.00	12.45	12.70
3,000 cu.yd. rock excavation	12.00	12.45	16.40
100 cu.yd. rock excavation for sewers	12.00	30.00	16.40
27,000 cu.yd. concrete masonry	24.00	21.00	23.00
62,000 sq.ft. rubbed surface	.10	.15	.10
2,900 cu.yd. protective concrete	24.00	21.00	23.00
1,300 cu.yd. rubble stone masonry	14.00	12.00	18.00
10 cu.yd. dry rubble masonry	10.00	10.00	15.00
500 cu.yd. brick masonry	35.00	50.00	50.00
15 cu.yd. hollow terra cotta	35.00	50.00	50.00
100 bbl. portland cement grout	6.00	8.00	8.00
20 cu.yd. broken stone or gravel	6.50	4.00	5.00
5,400 sq.yd. waterproofing 1-ply	1.00	1.25	1.00
24,000 sq.yd. waterproofing, 3-ply	3.00	2.10	2.60
100 sq.yd. waterproofing, 4-ply	3.50	3.00	4.00
100 sq.yd. waterproofing, 6-ply	5.50	4.00	6.00
100 sq.yd. waterproofing dry, 6-ply	1.00	1.00	1.00
360 cu.yd. waterproofing brick in mastic 1 layer	50.00	55.00	50.00
10 cu.yd. waterproofing brick in mastic, 2 layer	45.00	55.00	50.00
700 lin.ft. cast iron pipe and fittings, 3-in.	1.00	2.00	1.25
20 lin.ft. cast iron pipe and fittings, 4-in.	1.00	2.00	1.50
500 lin.ft. cast iron pipe and fittings, 6-in.	2.00	4.00	2.50
1,500 lin.ft. cast iron pipe and fittings, 8-in.	2.50	4.00	3.00
10 lin.ft. cast iron pipe and fittings, 10-in.	3.00	5.00	4.00
50 lin.ft. galvanized steel pipe, 3-in.	1.50	2.00	1.50
50 lin.ft. galvanized steel pipe, 4-in.	2.00	2.00	2.00
50 lin.ft. galvanized steel pipe, 6-in.	3.00	4.00	3.00
50 lin.ft. galvanized steel pipe, 8-in.	4.00	4.00	4.00
50 lin.ft. galvanized steel pipe, 10-in.	6.00	5.00	5.00
178,000 duct.ft. tunnel ducts	.35	.26	.35
650 cond.ft. fibre conduits, 3-in.	.40	.40	.40
1,500 ton riveted steel	140.00	142.00	118.00
4 ton architectural steel	400.00	400.00	400.00
580 sq.ft. steel doors	7.00	5.00	6.50
4 emerg. exit covers	500.00	250.00	500.00
1,800 ton steel beams and shapes	140.00	142.00	118.00
100 ton steel rods and bars	150.00	150.00	100.00
35 ton miscell. iron castings	200.00	250.00	200.00
1,000 lb. special wire forms	.15	.30	.20
4,770 lin.ft. hand rail	.30	.75	.50
6,000 sq.ft. gratings	6.00	3.50	4.50
100 sq.ft. vault lights	6.00	3.50	4.00
6,300 sq.yd. restoring street surface, within curbs	3.50	3.00	3.00
11,000 sq.yd. restoring street surface asphalt	5.00	6.00	5.00
3,100 sq.yd. restoring street surface, granite block	4.50	6.00	5.00
100 lin.ft. restoring street surface, 6-in. bluestone curb	3.00	3.00	4.20
100 lin.ft. restoring street surface, 8-in. granite curb	8.00	6.00	5.00
450 sq.yd. finishing of walls and slabs	2.00	3.00	2.50
3,600 lin.ft. steel electric ¾-in. conduits	.40	.60	.40
50 lin.ft. steel electric 1½-in. conduits	1.00	.80	.60
4,800 lin.ft. steel electric 1-in. conduits	.50	.60	.50
420 cast iron outlet boxes, 4 in x 4 in. x 3 in.	2.00	2.50	1.50
6 cast iron pull boxes, 6 in. x 6 in. x 4 in.	5.00	10.00	6.00
220 lin.ft. cast iron pipe 6-in.	2.00	5.00	2.50
150 lin.ft. cast iron pipe 3-in.	1.50	3.00	1.15
420 lin.ft. cast iron pipe 4-in.	2.00	3.00	1.60
50 lin.ft. cast iron pipe 8-in.	3.00	5.00	3.50

	A	B	C
200 lin.ft. cast iron sewer vitrified 12-in. pipe	5.00	7.50	6.00
1,000 lin.ft. cast iron sewer vitrified 15-in. pipe	6.00	8.50	7.00
1,900 lin.ft. cast iron sewer vitrified 18-in. pipe	7.50	9.50	8.00
500 lin.ft. cast iron sewer vitrified 20-in. pipe	8.50	10.00	8.60
1,600 lin.ft. cast'ron sewer vitrified 22-in. pipe	10.00	10.50	9.30
400 lin.ft. cast iron sewer vitrified 24-in. pipe	12.00	11.00	10.00
16 ton cast iron sewer straight pipe	200.00	150.00	120.00
5 ton cast iron sewer special pipe	350.00	250.00	240.00
80 lin.ft. flat top reinf. conc. sewer 3 ft. 6 in. x 2 ft. 4 in.	25.00	50.00	20.00
5,500 lin.ft. electric underground trolley	10.00	12.00	7.50
900 lin.ft. electric storage battery trolley	8.00	5.00	6.00
89 support of elevated columns on structure	3,500.00	4,500.00	4,000.00
10 support of elevated columns off structure	3,500.00	4,500.00	3,000.00
100 lin.ft. water pipe 6-in.	1.50	3.00	1.50
500 lin.ft. water pipe 12-in.	2.50	5.00	3.50
500 lin.ft. water pipe 48-in.	8.00	15.00	18.00
50 water pipe service connection	50.00	50.00	50.00
50 lin.ft. cast iron gas pipe 4-in.	1.50	3.00	1.00
100 lin.ft. cast iron gas pipe 6-in.	2.00	3.50	1.50
100 lin.ft. cast iron gas pipe 8-in.	2.50	4.00	2.00
100 lin.ft. cast iron gas pipe 12-in.	3.00	5.00	3.50
400 lin.ft. cast iron gas pipe 16-in.	3.50	6.00	5.50
300 lin.ft. cast iron gas pipe 20-in.	4.00	8.00	7.50
300 lin.ft. cast iron gas pipe 36-in.	7.00	10.00	14.00
700 lin.ft. steel by-passing pipe 6-in. upon or below street	6.00	4.00	6.00
3,600 lin.ft. steel by-passing pipe 8-in.	10.00	5.00	7.50
3,300 lin.ft. steel by-passing pipe 12-in.	20.00	8.00	12.00
40 lin.ft. steel by-passing pipe 16-in.	30.00	12.00	17.50
40 lin.ft. steel by-passing pipe 20-in.	30.00	15.00	25.00
50 lin.ft. steel by-passing pipe 24-in.	50.00	20.00	30.00
300 lin.ft. steel by-passing pipe 4-in.	4.00	3.00	5.00
50 lin.ft. steel by-passing pipe 36-in.	80.00	30.00	45.00
170 lin.ft. steel by-passing pipe 12-in. above street	12.00	12.00	12.00
270 lin.ft. steel by-passing pipe 16-in.	16.00	12.00	17.50
2,800 lin.ft. steel by-passing pipe 20-in.	20.00	16.00	25.00
700 lin.ft. steel by-passing pipe 24-in.	30.00	16.00	30.00
700 lin.ft. steel by-passing pipe 36-in.	50.00	25.00	45.00
50 lin.ft. steel by-passing pipe 8-in.	10.00	10.00	7.50
1,000 lin.ft. trestle to support by-passing pipe	10.00	10.00	10.00
1,000 lin.ft. cable to support by-passing pipe over 16-in.	15.00	10.00	8.00
160 lin.ft. cable to support by-passing pipe under 16-in.	15.00	10.00	7.00
50 gas pipe connection service	50.00	50.00	50.00
80 ton new C. I. water straight pipe	200.00	120.00	120.00
10 ton New C. I. water special pipe	350.00	240.00	240.00
600 lin.ft. pneumatic mail 8-in. tube	5.50	10.00	8.00
150 lin.ft. pneumatic new 8-in. pipe straight	8.00	15.00	10.00
75 lin.ft. pneumatic new 8-in. pipe curved	10.00	25.00	12.00
80,000 duct.ft. vitrified clay electric ducts and conduits	.35	.38	.45
100 lin.ft. steel pipe electric ducts and conduits 2½-in.	.60	2.00	.60
200 lin.ft. steel pipe electric ducts and conduits 3-in.	.70	2.50	.80
100 lin.ft. steel pipe electric ducts and conduits 3½-in.	.80	3.00	1.00
100 lin.ft. steel pipe electric ducts and conduits 2-in.	.40	2.00	.50
40 steel pipe electric ducts connlc. slry	50.00	50.00	25.00
100 lin.ft. wooden electric ducts connlc. slry. 3-in.	.70	1.00	.60
100 lin.ft. fibre electric ducts connlc. slry 3 in.	.70	1.00	.50
100 lin.ft. fibre electric ducts connlc. s'ry. 3½-in.	.70	1.00	.60
10 service boxes on relocated duct lines	150.00	250.00	125.00
10 junction boxes	500.00	250.00	150.00
10 junction boxes, additional	500.00	750.00	300.00
Extended totals	$4,908,261	$5,098,748	$5,231,111

* Cost of underpinning of buildings included in total but not in units.

Streets and Roads (Continued)

Alcatraz Asphalt Co., 407 Hamilton Ave., $45,101. Noted Feb. 5.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., widening and wood block repaving Columbus Circle, and granite block repaving Wooster St., to J. Meehan & Son, 74 Cortland St., $5,438 and $20,688 respectively. Noted Feb. 5.

N. C., Robersonville—Paving Main St., to Foster Constr. Co., North Wilkesboro, $35,-512. Noted Jan. 15.

South Carolina—Marion Co. (Gresham) and Dillon Co. (Dillon), sand clay surfacing 8.3 mi. State Route 47, State Project S-526, to W. B. Boyle Co., Sumter, $46,-099. Noted Dec. 18.

S. C., Aiken—Aiken Co., sand clay surfacing 7.7 mi. State Route 12, State Project S-522-A, to T. E. Hook, New Brookland, $60,777. Noted Jan. 8.

Fla., Clearwater—Pinellas Co. **(S. R. and B. D. means Special Road and Bridge Dist.)** to Cone Bros., Tampa, asphalt block paving Rds. 1 and 2, S. R. and B. D. 6, $250,697; to Warren & Carroll, Tampa, asphalt block surfacing on 6 in. crushed rock base, Rd. 2 in S. R. and B. D. 8 $139,074, Rds. 5 and 6 in S. R. and B. D. 8 $25,826, Rd. 3 in S. R. and B. D. 8 $203,119; to Morgan-Hill Paving Co., Jacksonville, double bituminous surface treating Rds. 7, 8 and 9 in S. R. and B. D. 8 $45,079, Rd. 4, S. R. and B. D. 8 $36,369, Rd. 1 in S. R. and B. D. 8 $32,155, 2 in. bituminous macadam on 6 in. rock paving Rds. 5 and 6, S. R. and B. D. 6 $38,900, Rd. 4, S. R. and B. D. 6 $77,718, Rd. 3, S. R. and B. D. 6 $134,415. Noted Jan. 8.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, grading and 2.5 in. bituminous macadam on giant macadam surfacing 11.86 mi. Murfreesboro-Cannon Co. line Rd., 18 ft., incl. 2 concrete bridges over 20 ft. span, Federal Aid Project 48, Rutherford Co., to Garrell, Barrow & Kirkpatrick, Russellville, Ky., $281,137. Noted Jan. 8.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, grading, etc., 11 mi. Davidson Co. line-Dickson Co. line Rd., 18 ft., Federal Aid Project 205, Cheatham Co., to Texas Willite Road Co., 1205 Capitol Ave., Houston, Tex., and Womack Constr. Co., Houston, Tex., $126,334. Noted May 1.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, Portland cement concrete surfacing 13.45 mi. Route 3, Sects. 35, 36 and 37, Warren and McDonough Counties, and 11.08 mi. Route 3, Sects. 40, 41 and 42, McDonough and Schuyler Counties, to W. O'Neil Sons, Fairbault, Minn., $281,534 and $255,421 respectively; 4.29 mi. Route 10, Sect. 34, Vermilion Co., to C. W. Clark Co., T. H. Bldg., Terre Haute, Ind., $94,525; 5.65 mi. Route 13, Sect. 12, Jackson Co., to Hamilton-Hoffman Constr. Co., Carbondale, $127,394; 12.12 mi. Route 14, Sects. 7 and 8, Franklin and Hamilton Counties, to Madison Constr. Co., Edwardsville, $283,000; 11.46 mi. Route 1, Sects. 30 and 31, Saline Co., and 10.77 mi. Route 37, Sects. 1 and 2, Jefferson Co., to Kerr & Murphy, Bloomington, Ind., $207,975 and $194,069 respectively; 8.49 mi. Route 13, Sects. 21 and 22, Randolph and St. Clair Counties, to Hoeffken Bros., Belleville, $163,277; 4.35 mi. Route 3, Sects. 51 and 52, Greene Co., to Nelson Bros., Jerseyville, $99,560. Noted Nov. 27.

Ill., St. Charles — To H. Jensen, St. Charles, improving 3rd St and Anderson Blvd, (city's share of work includes) 9,229 cu.yd. grading, 15,489 sq.yd. 8 in. concrete surfacing, 11,492 ft. curb and gutter, 5,995 ft. expansion joints, 3,008 ft. 8- to 15-in. vitr. clay pipe, 60,647, (railroad's share), 2,927 sq.yd. 8 in. and 4,285 sq.yd. 11 in. surfacing, 2,191 ft. expansion joints, 192 ft. 8 in. vitr. clay pipe, etc., $22,680. Noted Jan. 29.

Ill., West Chicago—To Gund-Graham Co., Freeport, grading and concrete surfacing 22,345 sq.yd. Southwest Dist., incl. Milo Court, Norris, Sherman, Clara, Harrison, Church and Ann Sts., $79,047, and 9,209 sq.yd. Sophia St., York and Fairview Aves., $31,545. Noted Jan. 22.

Ia., Sioux City—Illinois Central R.R. Co., 135 East 11th St., Chicago, Ill., grading grounds for roundhouse, shops and terminal, about 120,000 cu.yd. excav., to R. E. Betz, Iowa Bldg., $50,000.

Tex., Boston—Bowie Co., paving 11.64 mi. State Highway 5, 18 ft., to McGuire & Cavender, Sherman. Noted Dec. 4.

Tex., Houston—Harris Co., grading and bituminous concrete surfacing Rice Blvd. from Sunset Blvd. to Reenerman St., to S. Shambaugh, 1401 Dowling St., $63,601. Engrs. est. $65,000.

Tex., Houston—Paving North and South Boulevard Aves. from Dunlavy to Hazard Sts., to Gulf Bitulithic Co., 801 Bankers Mortgage Bldg., $49,032, engrs. est. $50,000; graveling Buffalo Dr. from City Park to Shepards Dam, to C. K. Horton, 2202 Clay St., $44,632, engrs. est. $45,000.

Tex., Kaufman — Kaufman Co. **(e.e. means engrs. est.)** to Smith Bros., Inc., Amer. Exch. Bank Bldg., Dallas, rein.-con. paving 41.431 sq.yd. State Highway 15, Federal Aid Project 130-C, $92,698, e.e. $103,-500; 69,951 sq.yd. State Highway 15, Federal Aid Project 130-A, $131,616, e.e. $175,-000; 113,393 sq.yd. State Highway 15, Federal Aid Project 130-D, $231,617, e.e. $260,-000. Noted Jan. 29.

Tex., Snyder — For 29,000 sq.yd. 3 in. vertical fibre brick with texaco asphalt filler pavement, to Smith Bros., Inc., Sumpter Bldg., Dallas. Noted Jan. 29.

Okla., Tulsa—To H. L. Cannady Co., 1122 South Lewis St., improving Archer St., Dist. 609, 1,843 sq.yd. G paving, 1,139 ft. curbing and 1,123 cu.yd. excav., $8,133, 18th, 21st and Main Sts., Dist. 610, 6,643 sq.yd. G paving, 4,142 ft. curbing and 3,273 cu.yd. excav., $28,572, alley in Block 3, Crosbie Heights addition, Dist. 611, 633 sq. yd. 6 in. Class F paving, 125 cu.yd. excav., $2,060, Latimer Court, Dist. 612, 1,754 sq. yd. paving, 1,214 ft. curbing and 924 cu. yd. excav., $7,893; to Standard Paving Co., 1742 East 6th St., improving Atlanta St., Dist. 613, 4,673 sq.yd. Class B paving, 3,080 ft. curbing and 2,334 cu.yd. excav., $21,343.

Okla., Wetumka—Grading and surfacing 3 blocks Bway., Frisco and Canadian Sts., 3,500 sq.yd. vertical fibre brick, 980 lin.ft. curbing, 1,400 cu.yd. earth and 60 cu.yd. rock excav., to Park & Moran, Box 622 Okmulgee, $26,359. Engrs. est. $27,300. Noted Jan. 15.

Calif., Fresno—Fresno Co., to California Road & Street Impvt. Co., Bank of Italy Bldg., improving roads in Impvt. Dist. 6, 107,400 sq.ft. 1.5 in. Warrenite on 2.5 in. asphaltic concrete at $0.157 per sq.ft., 167,200 sq.ft. grading $0.36, total $35,020; to Thompson Bros., G and Divisadero Sts., roads in Impvt. Dist. 7, 812,650 sq.ft. 1.5 in. Warrenite on 2.5 in. asphaltic concrete at $0.176, 1,243,800 sq.ft. grading $0.015, total $171,937. Noted Feb. 5.

Calif., San Francisco—Grading, concrete curbing, asphalt paving, etc., residential tract bounded by Monterey St., El Verango Way and Yerba Buena Ave., to Pacific States Constr. Co., Call Bldg., approximately $45,000. Owner's name withheld.

Calif., Santa Monica—Bitulithic on asphaltic concrete paving 175,500 sq.ft. Arizona Ave. between 20th St. and east city limits, to S. Pearson, 3847 Bway., Los Angeles, approximately $78,800. Noted Jan. 29.

Calif., Santa Rosa—Grading, reconstructing existing macadam into 4 in. base and surfacing with 3 in. willite portions of Lincoln, 7th and B Sts., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, to exceed $25,000. Noted Aug. 7.

Calif., Venice—Grading, curbing and 6 in. concrete paving Walgrove Ave., to J. and R. Youngblood, Venice, approximately $25,650.

Ontario—Northern Development Branch Provincial Hy. Dept., Parliament Bldg., Toronto, will clear and improve 40 mi. road from Fort William, Ont., Winnipeg, Man., 66 ft., gravel and macadam, by day labor. $400,000. C. H. Fullerton, Parliament Bldg., Toronto, ch. engr.

Buildings—Industrial

PROPOSED WORK

Me., Camden — Mill — Seabright Woven Felt Co., having plans prepared by J. C. and J. H. Stevens, 187 Middle St., Portland, 4 story, 55 x 115 ft., brick and timber addition, plain foundation. $300,000. Noted Jan. 22.

Mass., Lawrence—Bakery—White House Baking Co., having preliminary plans prepared by J. G. Morrisette, 575 Essex St., 2 story, rein.-con. and steel, Essex St. $40,000.

Mass., New Bedford — Factory — Continental Wood Screw Co., Pleasant St., having plans prepared by Leary & Walker,

Buildings—Industrial (Continued)

Timber Bldg., 2 story, 80 x 100 ft., brick addition. $75,000.

Mass., Somerville (Boston P. O.—Factory—E. F. Kemp, Skelton Ave., having plans prepared by W. Sidebottom, 101 Tremont St., Boston, 2 and 3 story, 35 x 65 ft., brick addition. $45,000.

R. I., Providence — Warehouse — City plans warehouse in 2 sections each 144 x 200 ft., at City Dock, Fields Point. $300,000. F. E. Waterman, ctiy engr.

Conn., New Haven — Storage — Durham Storage Co., 35 Olive St., having plans prepared by Westcott & Mapes, Inc., archts. and engrs., 207 Orang St., 3 story and basement, 35 x 50 ft., rein.-con., brick and steel, Olive St. $75,000.

N. Y., Brooklyn—Housing Station—Dept. Plants & Structures, Municipal Bldg., New York City, having plans prepared rein.-con. and brick housing station, East 35th St. and Ave. I, here. $100,000. Private plans.

N. Y., Brooklyn — Laundry — Colonial Laundry Co., 16 Lexington Ave., soon takes bids brick, steel and stone laundry, plain foundation, Lexington Ave. $200,000. McCarthy & Kelly, 159 Remsen St., archts. and engrs.

N. Y., Brooklyn—Refinery—Amer. Sugar Refining Co., 117 Wall St., New York City, plans extensions to sugar refinery, South 2nd St., here. Private plans.

N. J., New Brunswick—Factory—Oxford Dye Wks., Inc., New Brunswick, plans 1 story factory. $200,000. Engineer and architect not selected.

N. J., Trenton—Plant—Certain-Teed Products Corp., East State St., plans plant addition to replace one recently destroyed by fire. $40,000. Engineer and architect not selected.

N. J., Trenton—Plant—Federated Metals Corp., Enterprise Ave., C. W. Munro, pres., 472 Greenwood Ave., plans 2 story, 100 x 200 ft. plant. $50,000.

Pa., Phila.—Plant—A. W. Barnes, archt., Perry Bldg., soon lets contract 5 story and basement, 28 x 178 ft., rein.-con. and brick, plain foundation, 1529 Parrish St., for F. A. North Co., 1306 Chestnut St. $175,000.

Md., Cumberland—Plant—Sinclair Refining Co., 45 Nassau St., New York City, plans cold storage plant here. $100,000. Private plans.

N. C., Asheville—Plant—Sayles Finishing Plants, Inc., Saylesville, R. I., soon lets contract large plant on Swannanoa River, near here. Total incl. site, equipment and construction $1,000,000. J. E. Sirrine, Greenville, S. C., engr. Noted Jan. 22.

Tenn., Knoxville — Mill — Ashe Hosiery Mills plans mill addition, Gay St. $50,000.

O., Cleveland — Factory — Ferbert-Schonderfer Co., A. J. Ferbert, pres., Elmwood Rd., plans 3 story and basemen,t 60 x 60 ft., brick and steel, Elmwood Rd. $40,000. Private plans.

Mich., Detroit—Shop—Dodge Bros., Inc., 7900 Jos. Campau Ave., having plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., 1 and 2 story and basement, brick and steel, plain foundation.

Wis., Madison — Laundry — Alford Bros. Co., 113 North Carroll St., having plans prepared by Claude & Starck, Badger Annex, 1 story, 40 x 100 ft., brick, rein.-con. and steel laundry, plain foundation.

Wis., Sevastopol (Sturgeon Bay P. O.)—Factory—Reynolds Preserving Co., W. S. Reynolds, mgr. North West Sturgeon Bay, having plans prepared 1 story, 40 x 90 ft., rein.-con. and brick, plain foundation. $40,000. Private plans.

Wis., Waterloo — Dry Kiln, etc. — The Wisconsin Pop Corn Co., A. Schultz, secy., plans 2 story, 130 x 140 ft., brick and concrete dry kiln, warehouse and storage tanks building, plain foundation. $40,000. Engineer and architect not selected.

Tex., Dallas—Mill—Miller Mfg. Co., 906 Jackson St., C. R. Miller, pres., making plans 3 story, brick and timber addition, plain foundation. $1,000,000. Private plans.

Tex., Denton—Cold Storage—W. T. Bolton having plans prepared 1 story, 30 x 150 ft. cold storage building, concrete and brick. $45,000. Private plans.

Tex., San Antonio—Power Plant—San Antonio Pub. Serv. Co., 201 North St. Mary's St., making plans and surveys addition to power plant, incl. equipment. $210,000. E. H. Kifer, vice-pres. and genl. mgr.

Que., Montreal—Power Plant—Canadian Paperboard Co., 2 Seigners St., plans 400 hp. steam power plant. Kerry & Chace Ltd., 550 Confederation Life Bldg., Toronto, Ont., engrs.

Ont., Guelph—Plant — Guelph Paper Box Co., plans rebuilding plant recently destroyed by fire. $55,000.

Ont., Oshawa—Factory—Natural Tread Shoes Ltd., E. V. Taplin, mgr., 310 Yonge St., Toronto, plans 2 story brick factory, here.

Ont., Otterville — Factory — Hyslop & Sons plan factory. $50,000-$75,000.

Ont., Toronto — Power Plant — Hydro-Electric Power Comn., 190 University Ave., having plans prepared auxiliary steam driven electric generating station, about 100,000 hp., concrete, brick and steel. $5,000,000. F. A. Gaby, ch. engr.

BIDS DESIRED

Mass., Boston — Repair and Service Garage—Gilbert & Levine, c/o S. S. Eisenberg, archt., 46 Cornhill St., taking bids 2 story, 80 x 100 ft., rein.-con., Vancouver St. and Huntington Ave. $100,000. Noted Feb. 5.

Mass., Cambridge—Factory—Lever Bros., Bway., taking bids altering 3 story factory. C. T. Main, 200 Devonshire St., Boston, engr. Noted July 3.

Mass., Cambridge — Factory — General Radio Co., 11 Windsor St., taking bids 4 story and basement, 50 x 100 ft., rein.-con., caisson foundation, Windsor and Cambridge Sts. To exceed $40,000. Lockwood, Green & Co., 24 Federal St., Boston, engrs.

Mass., Waltham — Factory — Creighton Knitting Mills, High St., taking bids altering and constructing 3 story, brick and concrete addition, High St. $40,000. W. M. Haines, 32 Riverview Ave., archt.

Conn., Bridgeport—Factory—Locke Steel Chain Co., 1085 Connecticut Ave., taking bids 1 story, 85 x 155 ft., rein.-con. and steel, plain foundation. $75,000. C. W. Walker, Jr., 347 State St., archt.

N. Y., Coney Island (Sta. Brooklyn)—Shop—Feb. 20, by Bd. Transportation, 49 Lafayette St., New York City, structural steel for main repair shop and other buildings, here.

Pa., Phila.—Factory—Feb. 16, by Ballinger Co., archts., 12th and Chestnut Sts., 2 story, 54 x 193 ft., rein.-con. and brick addition, plain foundation, Tioga St. between C and Arbor Sts., for Baxter Kelly & Faust.

Calif., Beverly Hills—Factory—J. Hausfelder, archt. and engr., 230 West Jefferson St., Los Angeles, will build ice cream factory, rein.-con., Santa Monica Ave. and Alpine Dr., $250,000. Work will be done by separate contracts. Owners name withheld.

CONTRACTS AWARDED

Mass., Boston — Repair and Service Garage—A. E. Orno, 161 Devonshire St., 1 story, 115 x 200 ft., rein.-con. and brick, Ipswich St., to Foundation & Constr. Co., 108 Massachusetts Ave. Archts. est. $100,000.

Mass., Worcester—Factory—G. C. Whitney, Union and School Sts., 3 story and basement, brick, Union and School Sts., to Aberthaw Co., 27 School St., Boston. Engrs. est. to exceed $40,000.

Conn., New Britain — Factory — Corbin Screw Corp., High St., 6 story 40 x 45 ft., brick and timber addition to Aberthaw Constr. Co., 27 School St., Boston. Archts. est. $75,000.

Pa., Phila. — Storage, etc. — Publicker Commercial Alcohol Co., 4 story and basement, 70 x 70 ft., and 5 story and basement, 22 x 32 ft., Delaware and Bigler Sts., to G. Kessler Constr. Co., 1733 North Marvine St. Noted Jan. 29.

Pa., Zellonople — Shop — Atlas Sanitary Mfg. Co. will build 1 story, 30 x 50 ft. pattern shop, by day labor. $40,000. Truscon Steel Co., Oliver Bldg., Pittsburgh, to furnish steel for project.

W. Va., Huntington — Plant — International Nickel Co., 67 Wall St., New York City, 50 x 120 ft., rein.-con. and brick, plain foundation, here, to Austin Co., 217 Bway., New York City. Archts. est. $175,000.

O., Cleveland—Factory—Marquard Sash & Door Co., F. J. Marquard, genl. mgr., 307 Canal Rd., 1 and 2 story, 85 x 285 ft., brick, steel and concrete, 14,731 Lorain Ave., to Forest City Steel & Iron Co., 1500 West 110th St. Archts. est. $150,000. Noted Dec. 25.

Ill., Chicago — Mill — Acme Steel Goods Co., 112 Adams St., modern mill, to E. W. Bliss Co., 53rd St. and 2nd Ave., Brooklyn, N. Y.

Ill., Pekin — Warehouse — Corn Products Co., South 2nd St., 1 story and part basement, 140 x 500 ft., corrugated steel sides and steel frame, to Bedford Constr. Co., 208 East Illinois St., Chicago. Archts. est. $60,000.

Wis., Madison—Factory—Burgess Building Co., c/o Burgess Battery Co., Brearly St., 1 story, 62 x 252 ft., brick, concrete and steel, plain foundation, to A. D. and J. V. Frederickson, 702 East Main St. Archts. est. $45,000.

Minn., Winona — Power House — See "Buildings—Commercial."

Mo., St. Louis—Factory etc.—St. Louis Screw Co., Clarence and Bulwer Aves., 2 and 3 story, 62 x 472 ft., rein.-con. and steel factory and office building, 6900 North Bway., to Mississippi Valley Structural Steel Co., Big Bend and Cartan Aves.

Mo., St. Louis—Foundry—J. T. O'Neill, 51 Kingsburg Pl., 1 story, 95 x 180 ft., concrete and steel, 142-146 President St., to Kremer & Voirol Co., Century Bldg.

Calif., Azusa—Factory—Bartlett Nu Products Corp., 265 Garfield St., Pasadena, general contract 1 story, 50 x 170 ft., brick factory, Azusa St., to J. M. Cooper, 321 Marsh-Strong Bldg., Los Angeles. Archts. est. $40,000. Noted Jan. 15.

Calif., Fresno—Plant—Sun-Maid Raisin Growers Assn., Holland Bldg., rein.-con. plant, laboratory, etc., to Trewhitt-Shields Co., Pacific Southwest Bldg. Archts. est. $100,000.

Calif., Los Angeles—Factory — Western Art Stone Works, 5601 Alhambra Ave., will build 1 story, 85x120 ft. factory, Alhambra Ave., by day labor.

Calif., Oakland — Laundry — Ambassador Laundry Co., 246 Lakeshore Blvd., 1 story, brick, Magnolia and 28th Sts., to L. D. Price, 5807 Adeline St., approximately $42,000.

Calif., San Francisco—Plant—The Bulletin, Market St. at Grant Ave., 750 tons structural steel for 6 story and basement newspaper plant, Mission St. near 4th St., to Schrader Iron Wks., 1247 Harrison St.

S. A., Peru—Plant—Cerro de Pasco Copper Corp., 15 Broad St., New York City, will build leaching plant, here, by day labor. $200,000. Private plans.

Buildings—Commercial

PROPOSED WORK

Me., Biddeford—High School—Krokyn & Browne, archts., 220 Devonshire St., Boston, Mass., take bids about Feb. 14, 3 story and basement, 70 x 100 ft., and 70 x 112 ft., brick and steel, plain foundation, here, for School Comn., Town Hall. $400,000. Noted Jan. 1.

Mass., Boston—Apartment—L. S. Koufman, 94 Queensbury St., having revised plans prepared by G. N. Jacobs, 4 Park St., 8 story and basement, 60 x 100 ft., rein.-con., brick and steel, plain foundation, 1800-02 Commonwealth Ave. $350,000. Noted Jan. 8.

Mass., Boston — Store — Northern Realty Trust, c/o A. J. Carpenter, Jr., archt., 1 Moss Hill Rd., Jamaica Plain, having preliminary plans prepared 1 or more story, brick, 56-70 Cambridge St., here. $150,000.

Mass., Boston—Storage—Hudson Building Co., c/o Krokyn & Browne, archts., 220 Devonshire St., having plans prepared 13 story and basement, 130 x 165 ft., brick, concrete and steel, plain foundation, Kneeland, Hudson and Tyler Sts. $750,000.

Mass., Cambridge (Boston P. O.)—Office and Store—Manufacturers Natl. Bank, having preliminary plans prepared by F. E. Leland, 299 Main St., 5 story and basement, rein.-con., brick and stone, Kendall Sq. $150,000 or more.

Mass., East Boston (Sta. Boston)—School—Schoolhouse Dept., Boston, having plans prepared by W. W. Drummey, 80 Boylston St., 2 story and basement, 135 x 160 ft., brick and stone, plain foundation, Orient Heights, here. $150,000.

Mass., Jamaica Plain (Boston P. O.)—Store—Green Bros., 57 Hazelton St., Mattapan, having plans prepared by S. S. Levy, 35 Court St., Boston, 1 story and basement, 70 x 300 ft., rein.-con. and brick, 3201-13 Washington St., here. $150,000.

Mass., Lawrence—Store and Apartment—L. Godis, 246 Essex St., having preliminary plans prepared by J. G. Morristette, 575 Essex St., 3 story and basement, rein.-con. and brick, plain foundation, Elm St. $150,000.

Mass., Malden—High School—City, J. D. Kimball, City Hall, mayor, having preliminary plans prepared by M. A. Dyer, 1 Beacon St., Boston, altering and constructing 2 story and basement, brick and stone addition to Junior High School. $150,000.

Mass., Milford — High School — School Com. having plans prepared by R. A. Cook, Milford, 4 story and basement, 86 x 136 ft., brick and stone addition, Purchase St. $200,000.

Mass., Springfield — Station — Boston & Albany R.R., South Station, Boston, having plans prepared reconstructing old building on site of Boston & Maine. $250,000 or more. Private plans.

Mass., Worcester—Office and Store—Lincoln Constr. Co., 20 Pearl St., having plans prepared by McFarland & Laurie, 162 Newbury St., Boston, 5 story and basement, brick and stone, Elm St. To exceed $150,000.

R. I., Providence—Student—Brown University, having preliminary plans prepared by Andrews, Jones, Biscoe & Whitmore, 50 Congress St., Boston, Mass., 1 and 2 story

Buildings—Commercial (Continued)

and basement, students building. To exceed $150,000.

Conn., Bridgeport — Warehouse — Logan Bros., Housatonic Ave., having plans prepared by Fletcher-Thompson, Inc., Fairfield Ave., 5 story and basement, 50 x 100 ft., rein.-con., wood pile foundation, Lumber St. and Housatonic Ave. $150,000.

Conn., Bristol—School—School Com. having plans prepared by H. A. Hayden, 175 Main St., 2 story and basement, brick and stone school. $250,000.

Conn., Danbury—Dormitory—Connecticut Normal School, White St., plans dormitory White St., $300,000.

Conn., Hartford—Capitol—State Capitol, F. M. Salmon, comptroller, State House, having plans prepared by F. Irvine Cooper Corp., 983 Main St., altering Hall of House of Representatives. $150,000. Noted July 3.

Conn., New Haven—Professional—L. J. Whiteside, 70 Grove St., having preliminary plans prepared by Orr & del Grella, 956 Chapel St., 8 story and basement, 35 x 102 ft., brick and steel, plain foundation, Church St. $300,000.

Conn., New Haven—Theatre and Office—A. S. Friend, 36 West 44th St., New York City, plans brick, steel and stone, plain foundation, College St., here. $1,000,000. Engineer and architect not selected.

N. Y., Albany — Office, Museum, etc. — State Building Comn., plans new office building, new museum, park, and approach to Capitol. $12,000,000. S. W. Jones, state archt.

N. Y., Albany — Temple — Masonic Hall Assn., plans new brick and steel, plain foundation, State St. $2,000,000. Engineer and architect not selected.

N. Y., Far Rockaway — Theatre — B. S. Moss, Bway. and 53rd St., New York City, plans 180 x 200 ft., brick, steel and stone, plain foundation, Mott and Central Aves. Engineer and architect not selected.

N. Y., New York—Apartment—Bierman Elle Realty Co., c/o H. Hurwitz, archt., 41 West 33rd St., having plans prepared 6 story, 50 x 100 ft., brick, steel and stone, plain foundation, 6th St. and Ave. A. $300,000.

N. Y., New York—Apartments—M. Herrmann, c/o B. Sackheim, archt. and engr., 26 Court St., Brooklyn, having plans prepared six 5 story, brick, steel and stone, plain foundations, Beach Ave. $200,000 each.

N. Y., New York—Apartment—B. and C. Nieberg Realty Co., c/o D. S. Lang, archt. and engr., 110 West 34th St., having plans prepared 6 story, 100 x 140 ft., brick, steel and stone, plain foundation, Bway. and 193rd St. $250,000.

N. Y., New York—Apartment—Wako Co. Ltd., c/o W. Mason, archt., 25 West 43rd St., having plans prepared 13 story, brick, steel and stone, plain foundation, 1 East 53rd St. $225,000.

N. Y., New York—Church and Offices—Bway.-Chelsea Methodist Episcopal Church, 701 West 177th St., had plans prepared by D. Barber, 101 Park Ave., 24 story, brick, steel and stone plain foundation, Bway. and 174th St. $4,000,000. Werner-Nygren, 101 Park Ave., engrs.

N. Y., New York—Garage—S. Solomon, c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., having plans prepared 2 story, 100 x 200 ft., rein.-con., brick and steel, plain foundation, 820 12th Ave. $300,000.

N. Y., New York—Hospital—Dept. Pub. Welfare, Municipal Bldg., had plans prepared by C. B. Meyers, 31 Union Sq., brick, steel and stone hospital, plain foundation, Walton Ave. and 167th St. $3,200,000.

N. Y., New York—Hospital—Jewish Maternity Hospital, c/o A. W. Brunner, archt. and engr., 101 Park Ave., having plans prepared 9 story, brick, steel and stone, plain foundation, 5th Ave. and 108th St. $1,250,000.

N. Y., New York—Office—Real Estate Bd., c/o Starrett & Van Vleck, archts. and engrs., 8 West 40th St., soon takes bids 16 story, brick, steel and stone, plain foundation, 14 East 41st St. $1,000,000.

N. Y., North Creek—School—Voted $150,000 bonds for 3 story, 150 x 200 ft., rein.-con. and brick, plain foundation, Main St. Engineer and architect not selected.

N. Y., North Tonawanda—High School—Bd. Educ. plans high school, Payne Ave. $500,000.

N. Y., Tonawanda—High School—Bd. Educ. plans high school, Main St. $650,000.

N. J., Englewood — High School — Bd. Educ. plans new high school. $200,000. W. J. White, supt. schools. Engineer and architect not selected.

N. J., Jersey City—Hospital—Hudson Co. Maternity Hospital having plans prepared by C. Ziegler, 75 Montgomery St., brick, steel and stone, plain foundation. $1,000,000.

N. J., Trenton—Apartment—J. R. Lambert, 912 Bellevue Ave., and C. F. Foley, Trenton, plans 8 story apartment house, Greenwood and Hollywood Aves. $500,000. Engineer and architect not selected.

Pa., Phila. — Museum — University of Pennsylvania, 34th and Spruce Sts., having plans prepared by Day & Klauder, Frank Bank Bldg., Stewardson & Page, 315 South 15th St., and Wilson, Eyre & McIlvane, 100 Spruce St., addition to museum. $600,000.

Pa., Pottsville—Store—Underwood-Doutrick Clothing Co., having plans prepared by H. J. Weigner, archt., Bethlehem Trust Bldg., Bethlehem, 2 story and basement, 30 x 230 ft., brick and steel, plain foundation.

Md., Baltimore — Hotel and Store — M. Schapiro, J. R. Roney, and H. Scherr, 313 South Hanover St., plans 12 story and basement, brick and steel, plain foundation, Park Ave., Centre and Howard Sts. $4,000,000. Engineer and architect not selected.

Md., Baltimore—Office and Store—I. Silberstein, 402 St. Paul St., having plans prepared by E. H. C. Browne, 402 St. Paul St., 2 story, 109 x 113 ft., brick, plain foundation, Baltimore and Lloyd Sts. $150,000.

Md., Baltimore—Store—Hochschild, Kohn & Co., Howard and Lexington Sts., having plans prepared by J. E. Sperry, Calvert Bldg., 6 or 8 story and basement, brick and steel, Howard, Franklin and Centre Sts. $2,000,000. H. F. Doelman, 507 North Charles St., engr.

Va., Blacksburg — Memorial — Virginia Polytechnic Institute soon lets contract 3 story, 90 x 150 ft. alumni quarters and gymnasium, etc., with 5 story tower in center. $250,000. Carneal & Johnson, Virginia Ry. and Power Bldg., Richmond, archts.

Va., Old Point Comfort — Hotel — Old Point Hotel Co. having plans prepared by McLanahan & Bencker, 908 Bellevue Ct. Bldg., Phila., Pa., 315 room modern hotel, Hampdon Roads waterfront, to replace Hotel Chamberlain, recently destroyed by fire. $1,800,000. Noted Jan. 8.

Ga., Atlanta—Theater and Office—Famous Players Lasky Corp., 485 5th Ave., New York City, plans brick, steel and stone theater and office building, plain foundation, here. $750,000. Engineer and architect not selected.

Fla., Ft. Lauderdale—Hotel—J. Shingler and associates, Macon, Ga., having plans prepared by F. Abren, Ft. Lauderdale, hotel, 4th St. and Andrews Ave. $150,000.

Fla., Jacksonville—Theater and Office—Famous Players-Lasky Corp., 485 5th Ave., New York City, plans brick, steel and stone, plain foundation, here. $750,000. Engineer and architect not selected.

Fla., St. Petersburg—Theater—Famous Players-Lasky Corp., 485 5th Ave., New York City, plan theater, here. $500,000. Engineer and architect not selected.

Fla., Tampa — Theater and Office — Famous Players-Lasky Corp., 485 5th Ave., New York City, plans theater and office building, here. $600,000. Engineer and architect not selected.

Tenn., Nashville—Bank and Office—Amer. Trust Co., 235 3rd Ave. N, P. D. Houston, pres., having preliminary plans prepared by H. C. Hibbs, 4th and 1st Natl. Bank Bldg., probably 14 or 15 story rein.-con., brick and steel, 3rd and Union Sts. $800,000. Noted Feb. 5.

Tenn., Nashville — Office and Store — Bennie-Dillon Building Co., W. W. Dillon, pres., 304 3rd Ave. N., soon takes bids 12 story, 62x147 ft., concrete, brick and steel, 7th and Church Sts. $700,000. Asmus & Clark, Stahlman Bldg., archts.

O., Canton—Store—Carmichael & Millspaugh Co., archts., 7 East Long St., Columbus, soon lets contract 2 story and basement, 33 x 200 ft., brick, steel and concrete, here, for G. S. and W. E. Shaeffer, Canton. $150,000.

O., Cincinnati — Apartment — Schwartz Realty Co., 303 Provident Bank Bldg., having plans prepared by O. Schwartz, 303 Provident Bank Bldg., 8 story and basement, rein.-con. and brick, Reading Rd. $2,000,000.

O., Cincinnati—Hospital—City Hospital, Burnet Ave., having plans prepared by Elzner & Anderson, Benton Bldg., 5 story and basement children's hospital, rein.-con., brick and stone, Elland St. $1,000,000.

Ill., Aurora—Church—Marion Ave. Baptist Congregation, c/o C. Miller, pastor, soon takes bids 2 story and basement, 95 x 150 ft., rein.-con., brick and stone, plain foundation, Marion and Lebanon Aves. J. V. Morison, 64 West Randolph St., Chicago, archt.

Ill., Chicago — Club House — Standard Club, Dearborn St., having revised plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, Mich., 10 story and basement, 70 x 195 ft. rein.-con., brick and steel, plain foundation, Dearborn St.

Ill., Cicero—High School—Voted $300,000 bonds for 3 story, rein.-con., brick and stone high school in Dist. 201. W. C. Robb, 25th St. and Austin Blvd., secy. Noted Nov. 13.

Ill., Springfield — Theatre, Store and Apartment—Local Syndicate, c/o Levine & Rupert, archts., 822 West 70th St., Chicago, soon takes bids 3 story and basement, 157 x 242 ft., rein.-con., brick, steel and terra cotta, 5th and Jefferson Sts.

Wis., Milwaukee—Apartment and Store—G. Zagel & Bro., archts., 144 Oneida St., takes bids about Feb. 17, 3 story and basement, 72 x 100 ft., brick and tile, plain foundation, 27th St., for F. O. Mueller, 1034 27th St. $150,000.

Tex., Houston—Theater and Office—J. H. Jones, Goggan Bldg., making preliminary plans brick, steel and stone, plain foundation. $1,000,000. Private plans.

Tex., San Antonio—Theatre and Office—Commercial Realty Co., c/o J. Oppenheimer, chn. Building Comn., having plans prepared by Kelwood Co., 907 Travis Bldg., 6 story, rein.-con., concrete, structural steel and brick, Commerce, St. Marys and Crockett Sts. $1,500,000.

Colo., Denver — Theatre and Office — Famous Players-Lasky Corp., 485 5th Ave., New York City, plans brick, steel and stone theatre and office building, plain foundation, here. $1,000,000. Engineer and architect not selected.

BIDS DESIRED

Mass., Lynn—Apartment Hotel—Pythian Castle Assn., Market St., taking bids, Lynn Castle, 3 and 4 story and basement, 100x170 ft., rein.-con., brick, steel, stone and hollow tile, 37 Market St. $250,000. M. F. Burk, 173 Milk St., Boston, archt.

Mass., South Boston (br. of Boston)—Garage—J. D. Marr, pres., J. D. Marr & Son Co., 384 Dorchester Ave., South Boston, taking bids 2 story, 100 x 200 ft., concrete and steel, plain foundation, Old Colony Ave. and D St. $175,000. E. N. Adams, 86 Everett St., Arlington, archt.

Mass., Westfield—Atheneum—Westfield Atheneum Assn., taking bids 2 story and basement, 50 x 150 ft., brick atheneum. $150,000. Coolidge & Carlton, 89 State St., Boston, archts. Noted Oct. 2.

R. I., Providence — Dormitory — Brown University, taking bids 4 story and basement 35 x 105 ft., and 35 x 175 ft., brick and steel, plain foundation. $250,000. Day & Klauder, 1416 Chestnut St., Phila. Pa. Noted May 29.

N. J., Camden—Bank—Feb. 18, by Land Title Guaranty Co., 432 Market St., 2 story and basement, 38 x 100 ft., rein.-con., brick and stone, plain foundation, 5th and Market St. Davis, 3rd Dunlap & Barney, 1805 Walnut St., Phila., Pa., archts.

N. Y., Kings Park—Hospital—Mar. 4, by State Hospital Comn., Capitol, Albany, constructing fire house, at Kings Park State Hospital, here; adv. E. N.-R. Feb. 12.

N. Y., New York—High School—Feb. 16, by Cass Gilbert, archt., 244 Madison Ave., 8 story, brick, steel and stone, plain foundation, Lexington Ave. and 50th St., for Roman Catholic Archdiocese of New York, S. J. Donahue, 452 Madison Ave., pres. $750,000.

Pa., Lewisburg—High School—Mar. 2, by Bd. Educ., 1 story and basement, 82x281 ft. and 68x120 ft., brick and steel, plain foundation. W. G. Eckels & Co., New Castle, archts.

Pa., Reading—Home—Feb. 19, by W. H. Lee, archt., 1505 Race St., 3 story and basement, 90x124 ft., brick and steel addition, plain foundation, here, for Bethlehem Temple Assn., Bethlehem. $175,000.

Md., Baltimore—Police Headquarters—Feb. 18, by Bd. Awards, 5 story and basement, 160 x 237 ft., brick and steel, plain foundation, Lexington and Fallsway Sts. $1,000,000. J. Pennington, 330 North Charles St., archt. W. C. Chapin, 347 Madison Ave., New York City, engr. Noted Dec. 11.

Md., Bowie—Administration—Feb. 18, by State Bd. Educ., 2014 Lexington Bldg., Baltimore, 2 story and basement, 103 x 136 ft., brick and steel, plain foundation, here. $175,000. Smith & May, Calvert Bldg., Baltimore, archts.

D. C., Wash.—Church, etc.—St. Stephens Episcopal Church, Newton and Center Sts., N.W., taking bids for church, Sunday school and parish house. R. Tappan, Forrest Hills Gardens, Long Island, N. Y., archt.

D. C., Wash.—Home—Washington City Orphans Asylum taking bids, for children's home. A. P. Clark, Jr., 816 14th St., archt.

D. C., Wash.—Nurses' Home and Dormitory—New Crittendon Home, taking bids for nurses home and dormitory, Conduit Rd. $250,000. A. P. Clark, Jr., 814 14th St., N.W., archt.

Va., Alexander—Hotel—Day & Zimmerman, engrs. and archts., 1600 Walnut St., Phila., Pa., will build 6 story and basement, 100 x 113 ft., rein.-con., brick and steel, plain foundation, for Northern Virginia Hotel Corp. Work will be done by separate contracts under supervision of engineers.

N. C., Hendersonville—High School—City taking bids high school. $280,000 bonds voted. A. W. Honeycutt, supt.

Buildings—Commercial (Continued)

Fla., Jacksonville—Clubhouse—Feb. 23, at office of R. A. Benjamin, archt., Bisbee Bldg., 5 story, and basement, 105 x 107 ft., steel and brick, Laura and Adams Sts., for Elks Club. $250,000.

O., Cleveland — Apartment — S. Koslen, 1077 East 97th St., taking bids 4 story and basement, 49 x 179 ft., brick, 1906 East 82nd St. $250,000. Schabel & Grimm, Erie Bldg., archts.

O., Cleveland — Infirmary — Feb. 27, by Dept. Pub. Welfare, Columbus, remodeling 2 story and basement, 146 x 180 ft., rein.-con. and brick, for Cleveland State Hospital, here. $175,000. H. H. Briggs, Ohio-Hartman Bldg., Columbus, archts.

O., Cleveland—Store and Apartment—Thompson Impvt. Co., J. W. Thompson, pres., Chester-Twelfth Bldg., taking bids 2 story and basement, 60 x 82 ft., and 68 x 100 ft. store and apartment building, Lakeland and Detroit Aves. $200,000. Private plans.

Mich., Detroit—Mercantile—Feb. 20, by Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., 10 story and basement, 80 x 100 ft., rein.-con., brick and steel, plain foundation, Library Ave., for Crowley Milner Co., Gratiot and Farmer Sts.

Ill., Staunton—Church—Feb. 15, by Bd. Trustees St. Michael Roman Catholic Parish, 419 East Main St., 1 story and basement, 58 x 127 ft., concrete, brick and stone. $150,000. Wessbecher & Hillebrand, 826 Buder Bldg., St. Louis, Mo., archts. Noted Nov. 27.

Wis., Milwaukee — Apartment — J. Hunholz, 2310 Vliet St., taking bids for concrete for 8 story and basement, 60 x 77 ft., brick and concrete, plain foundation, Mason St. $350,000. Dick & Bauer, 811 State St., archts. Noted Dec. 11.

Wis., Milwaukee—Office and Store—Feb. 16, by A. S. Alschuler, archt., 28 East Jackson Blvd., Chicago, Ill., 8 story and basement, 125 x 150 ft., brick and concrete, Wells St., for English Woolen Mills, 204 3rd St. $800,000. Noted Jan. 15.

Minn., Faribault—School—Feb. 16, by St. Mary's Hall, superstructure for 2 story, rein.-con. and brick school. $175,000. C. H. Johnston, 715 Capitol Bldg., St. Paul, archt. Noted Sept. 4.

Neb., Lincoln — Office — Commonwealth Investment Co., taking bids 12 story and basement, 75 x 95 ft., concrete, marble, tile and steel office building. 800,000. C. H. Larsen & Co., Fraternity Bldg., archts.

Neb., Omaha—High School—Feb. 26, by Bd. Educ., c/o W. T. Burke, secy., South High School, 3 story, Bedford stone and brick. $675,000 up. J. Latenser & Sons, 732 Peters Trust Bldg., archts. Noted Dec. 18.

Mo., Kansas City—Church—Mar. 3, by J. H. Felt & Co., archts., 800 Grand Ave. Temple Bldg., 2 story and basement, 160 x 175 ft., native stone, brick and concrete addition and remodeling present church, Linwood Blvd. between Park and Oliver Sts., for First Baptist Congregation, c/o D. J. Evans, pastor. Noted Feb. 5.

Mo., St. Louis—Office—Roxana Petroleum Co., Arcade Bldg., taking bids 12 story, 102 x 196 ft., brick, stone, concrete and steel, 13th St. and Locust Blvd. $1,000,000. Jamieson & Spearl, Arcade Bldg., archts. Noted Dec. 4.

Tex., San Antonio—Hotel—Feb. 21, by H. T. Phelps, archt. and engr., Hicks Bldg., 8 story and part basement, 80 x 110 ft., rein.-con. and brick addition, plain foundation, St. Marys and Travis Sts., for J. M. Nix & Co., c/o Lanier Hotel. Noted Feb. 5.

Calif., Los Angeles—Warehouse—A. C. Martin, archt., Higgins Bldg., taking bids 5 story (ultimately 8 story), 50 x 140 ft., rein.-con., Pico St. and Normandie Ave., for A. Wohlfarth, 1607 Pleasant Ave., California Storage Co., 1320 Margo St., lessee. Noted Jan. 28.

Calif., Pasadena — School — Bd. Educ. taking bids Washington Junior High School, 2 story, brick. $200,000. Allison & Allison, Hibernian Bldg., Los Angeles, archts.

Ont., Petrolia—High School—Feb. 25, by J. J. Matthews, secy. Bd. Educ., 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation. $150,000. D. R. Franklin, 487½ Yonge St., Toronto, archt.

BIDS RECEIVED

N. Y., Brooklyn—School—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Feb. 5, general construction P. S. 207, Fillmore Ave., from T. A. Clarke, 1310 Bedford Ave., for Bd. Educ., 500 Park Ave., New York City. $356,300. Noted Jan. 22.

Wis., Fond du Lac—Schools—Bd. Educ., c/o J. Hohenesee, secy., Feb. 4, 2 story and basement, brick and tile addition to Roosevelt Junior High School, from Bartleson & Ness, Manitowoc, $166,700; Fond du Lac High School, from G. Schwartz & Co., Rochester, Minn., $185,600. Noted Jan. 22.

CONTRACTS AWARDED

Mass., New Bedford—Theatre and Office—Z. Ray, 1527 Acushnet Ave., 2 story and basement, 72 x 130 ft. theatre, and 62 x 130 ft. office building, both brick and steel, plain foundation, Acushnet Ave., to J. Nault, 232 Shaw St. Archts. est. $250,000. Noted Jan. 22.

R. I., Providence — School — Assumption Parish, Potters Ave., 3 story and basement, 75 x 100 ft., brick and steel, plain foundation, to Central Eng. & Constr. Co., 210 Main St., Pawtucket. Archts. est. $150,000. Noted Jan. 29.

N. Y., Brooklyn—Exchange—New York Telephone Co., 15 Dey St., New York City, 3 story, 100 x 100 ft., brick, steel and rein.-con., plain foundation, Ocean Ave. and Ave. Y, here, to White Constr. Co., 95 Madison Ave., New York City. Archts. est. $250,000.

N. Y., Elmira—College—Elmira College, constructing 2 story and basement, 110x112 ft. brick, to Lowman Constr. Co., Elmira.

N. Y., New York—Theatre—J. Cort, 136 West 48th St., brick, steel and stone, plain foundation, Fordham Rd. and Bainbridge Ave., to M. Shapiro & Sons, 1540 Bway. Archts. est. $300,000.

N. Y., Rochester—Hospital—Rochester Homeopathic Hospital, 224 Alexander St., brick, steel and stone, plain foundation, Alexander St., to Gorsline & Swan, Rochester. Archts. est. $350,000.

N. Y., Utica—Bank and Office—First Natl. Bank & Trust Co., 14 story, 80 x 151 ft., brick, steel and stone, plain foundation, Genesee and Elizabeth Sts., here, to C. T. Wills, Inc., 286 5th Ave., New York City. Noted Jan. 22.

N. J., Newark—Bank—Natl. State Bank, 810 Broad St., 2 story, brick, steel and stone, plain foundation, Mechanic St., to D. Wather Co., 178 Abington Ave. Archts. est. $150,000.

N. J., Newark—Office—Prudential Insurance Co., Prudential Bldg., 16 story, brick, steel and stone, plain foundation, Halsey St., to Thompson Starrett Co., 49 Wall St., New York City. Archts. est. $6,000,000.

Pa., Harrisburg—Store—J. H. Doutrick, c/o C. J. Lappley, archt., Ebner Bldg., 4 story and basement, 26 x 210 ft., brick and steel, plain foundation, Market and Dewberry Sts., to Central Constr. Co., 7th and Emerald Sts.

La., New Orleans—College, etc.—Jesuits College, Baronne and Common Sts., construction new 4 or 5 story college buildings, new church, 2 story auditorium, and 4 story priests house, all rein.-con. and brick, Carrolton Ave. and Banks St., to G. J. Glover Co., Inc., Whitney Central Bank Bldg., $1,500,000.

Mich., Detroit—Lodge—Loyal Order of Moose, 418 West Elizabeth St., 3 story, brick, steel and rein.-con. addition, plain foundation, Cass Ave., to Jones McNally Co., 400 Penobscot Bldg., $350,000. Noted July 31.

Mich., Detroit—Mercantile—J. L. Hudson Co., 1201 Farmer St., 15 story, basement and sub-basement, 120 x 150 ft., concrete, brick, steel and stone, plain foundation, Farmer St., to Bryant & Detwiler Co., 2336 Dime Bank Bldg.

Mich., Jackson—Church—First Church of Christ Scientist, 2 story, brick, steel and stone, plain foundation, Homecrest Rd., to H. G. Christman Co., Lansing, $153,000.

Minn., Winona—High School and Power House—Bd. Educ., A. H. Kressin, clk., general contract 3 story and basement, rein.-con., brick and stone, to Carlsted Bros., 700 Builders Exch., Minneapolis, $206,026. Noted Jan. 8.

Wyo., Rawlins—High School—School Bd. Dist. No. 3, First Natl. Bank Bldg., 3 story, rein.-con., terra cotta and brick, to E. White, Idaho Falls, Idaho, $220,211.

Mo., Kansas City — Hotel — Westport Hotel Operating Co., c/o J. J. Taxman, Land Bank Bldg., 12 story and basement, 107 x 130 ft., rein.-con., brick, stone and terra cotta, 14th and Baltimore Sts., to G. H. Siedhoff Constr. Co., Broadview Hotel Bldg., Wichita, Kan.

Mo., St. Louis—Office—Western Union Telegraph Co., 514 Olive St., 17 story and basement, 119x127 ft., brick, stone, steel and concrete, 9th and Chestnut Sts., to D. P. Robinson Constr. Co., 655 Park Ave., New York City.

Tex., Wichita Falls—Office—Snider & Harvey, 6 story and basement, 80 x 100 ft., rein.-con., and brick, plain foundation, Main St., to Westlake Constr. Co., 1st Natl. Bank Bldg., Ft. Worth, cost plus percentage basis. Archts. est. $400,000.

Calif., Fullerton — Gymnasium — Union High School Dist. will build 1 story, 80x195 ft., brick and steel, by day labor. $150,000. Noted Dec. 4.

Calif., Los Angeles—Dormitory—Wollett & Eager, archts., Pacific Mutual Bldg., general contract 3 story and basement, 90 x 120 ft., brick and concrete, 36th St. near University Ave., to Sumner-Sollitt Co., Delta Bldg., for University of Southern California. $107,845. Noted Jan. 29.

Calif., Los Angeles—Garage—Interests represented by C. W. Irwin, Westlake Professional Bldg., 7 story and basement, 80 x 175 ft., rein.-con., South Hope St., to Wallace & Dunham, 2007 Wilshire Blvd., approximately $360,000. Noted Nov. 27.

Calif., Los Angeles—Store, Theatre and Apartment—L. L. Bard, 421 Union Oil Bldg., 103 x 278 ft., rein.-con., Adams St. and Crenshaw Blvd., to A. Bard Co., Union Oil Bldg., approximately $400,000.

Calif., Los Angeles—Temple—Hongwanjo Buddhist Temple Assn., c/o E. H. Cline, archt., Ferguson Bldg., brick, Central Ave. and 1st St., to Darrell-Condley Co., Marsh-Strong Bldg., $154,300.

Calif., Los Angeles — Theatre — G. A. Landsburgh, archt., Hillstreet Bldg., (all except steel contract), 13 story and basement, 140 x 150 ft., steel, brick and rein.-con., South Bway., to J. V. McNeil Co., 5860 South Park Ave., for Bway. Properties, Inc., c/o architects. Noted Jan. 29.

Calif., Los Angeles—Warehouse—Morgan, Walls & Clements, archts., Van Nuys Bldg., 5 story and basement, 140 x 320 ft., rein.-con., McGarry St., to J. M. Cooper, Marsh-Strong Bldg., for R. H. Arnold, 830 McGarry St. Approximately $500,000 on percentage basis. Noted Jan. 15.

Calif., Sacramento—Exchange—Bliss & Faville, archts., Balboa Bldg., San Francisco, 6 story and basement, brick and steel, K St., here, to Lindgren-Swinerton, Inc., Standard Oil Bldg., San Francisco, for Pacific Telephone & Telegraph Co., 333 Grant Ave., San Francisco. $400,000 to $500,000. Noted Dec. 18.

Calif., San Francisco — Apartment — Mason-Sacramento Corp., M. V. B. McAdam, pres., 43 Sutter St., 10 story and basement, rein.-con., Mason and Sacramento Sts., to Clinton Constr. Co., 923 Folsom St., $1,000,000 or more, probably fixed fee basis.

Calif., San Francisco—Club—Meyer & Johnson, archts., 742 Market St., 4 story and basement, Class A, Sacramento St., to Coast Constr. Co., Crocker Bldg., for Y. M. C. A. (Chinese Branch). $127,500. Noted Jan. 22.

Calif., San Jose—Office and Club—Commercial Club, c/o Binder & Curtis, archts., 255½ 5th St., 10 story and basement, rein.-con., North 1st St., to E. Nommensen, c/o Builders Exchange, $320,000. Noted May 15.

Ont., London — Seminary — A. Fallon, bishop St. Peters Palace, 3 story and basement, 100 x 400 ft., brick and stone, Huron St., to Piggott & Healey, 36 St. James St., Hamilton. Archts. est. $500,000.

Federal Government Work

PROPOSED WORK

Mo., Sedalia—Post Office—U. S. Treas. Dept., Wash., D. C., having preliminary plans prepared 2 story and basement, rein.-con., brick and stone. Private plans.

BIDS DESIRED

N. Y., New York—Dredging, etc.—Feb. 24, by U. S. Engineer Office, Room 710, Army Bldg., 39 Whitehall St., dredging and rock removal in East River; adv. E. N.-R. Feb. 12.

Md., Baltimore—Repairs, etc.—March 2, by Treas. Dept. at office Supervising Archt., Wash., D. C., repairing, reroofing, etc., also mechanical equipment at Immigration Sta., here.

D. C., Wash.—Garage—Feb. 19, by Treas. Dept. at office Supervising Archt., Wash., D. C., constructing 1 story garage, for fuel yards.

W. Va., Parkersburg—Post Office—Mar. 5, by Treas. Dept. at office Supervising Archt., Wash., D. C., new mailing platform, etc., at Post Office, here; adv. E. N.-R. Feb. 12.

N. C., Wilmington—Barge—Mar. 12, by U. S. Engineer Office, constructing one 5 x 26 x 80 ft. steel barge; adv. E. N.-R. Feb. 12.

Federal Government Work (Continued)

Ill., **Great Lakes**—Buildings, etc.—Mar. 17, by U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., constructing buildings and utilities, at U. S. Veterans Hospital, here.

Wis., **Milwaukee**—Steel Bars—Mar. 12, by U. S. Engineer Office, steel reinforcing bars, here; adv. E. N.-R. Feb. 12.

BIDS RECEIVED

Wash., **Puget Sound**—Repairs, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs and fitting out piers, here, from Henry & McFee, 208 Northern Life Bldg., Seattle, **(1)** $1,466,475 **(2)** $1,465,477 **(3b)** $1,290,148 **(3c)** $1,299,971 **(4a)** $18,700 **(4b)** $16,300 **(4c)** $16,300 **(5a)** $9,600 **(5b)** $74,900 **(5c)** $30,080 **(5d)** $18,000 **(5e)** $32,915 **(6a)** $210 **(6b)** $524 **(6c)** $340 **(6d)** $187 **(6e)** $693 **(7)** $0.20 **(8)** $0.67 **(9)** $1.08 **(10)** $10,500 **(10a)** $5,600 **(10b)** $9,650 **(10c)** $4,850 **(10d)** $260 **(10e)** $235 **(10f)** $235 **(10g)** $235. Noted Dec. 18.

CONTRACTS AWARDED

Mass., **Gloucester** — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling post office, etc., here, to E. Zimmerli, Woodbury, N. J., $18,400. Noted Jan. 29.

Ala., **Florence**—Cable, etc.—U. S. Engineer Office, War Dept., Wash., D. C., generators and lead cable for power house at Wilson Dam, here, to General Electric Co., River Rd., Schenectady, N. Y., $64,348. Noted Jan. 15.

Ala., **Florence**—Insulators—U. S. Engineer Office, War Dept., Wash., D. C., porcelain insulators with cable clamp, here, to Champion Switch Co., Buffalo, N. Y., $33,810. Noted Jan. 15.

Ala., **Florence**—Lock Gates—U. S. Engineer Office, War Dept., Wash., D. C., steel lock gates for Navigation Canal at Wilson Dam, here, to Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $187,370.

Miss., **Vicksburg** — Drainage Ditches — Third Mississippi River Dist., P. O. Box 404, about 125,000 cu.yd. drainage ditches in Black Bayou, Lower Yazoo Levee Dist. above Greenville, to A. V. Wills & Sons, 516 Buder Bldg., St. Louis, Mo., $0.194 per cu.yd., total $24,250. Noted Jan. 1.

Mo., **Harrisonville** — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office, here, to A. M. Lundberg, Federal Reserve Bank Bldg., St. Louis, $41,700. Noted Jan. 8.

Unclassified

PROPOSED WORK

Park—Albany, N. Y.—See "Buildings—Commercial."

Subway — New York, N. Y.—Bd. Transportation, 49 Lafayette St., didn't open bids Feb. 6, constructing Sect. 6B, Route 78, a part of Rapid Transit R.R. Resolution rescinded. Noted Jan. 29.

Harbor Improvements—Richmond, Va.—Henrico Co. having surveys made harbor improvements. R. K. Compton, City Hall, engr.

Gas Storage Plant, etc.—Tampa, Fla.—Tampa Gas Co., 201 Madison St., plans extending plant, storage for 2,600,000 cu.ft. gas, and 20 mi. mains. J. D. Shattuck, 201 Madison St., engr.

Sea Wall—Gulfport, Miss.—Bd. Supervs. Harrison Co. take bids probably Mar. 15, sea wall along beach front from Biloxi to Pass Christian. $2,000,000. H. D. Shaw, Anderson Theatre Bldg., co. engr. H. A. Genung, Long Beach, field engr., and A. M. Shaw, Hibernia Bldg., New Orleans, La., consult. engr. Noted Feb. 5.

Electric Light System—Jonesville, La.—See "Waterworks."

Mooring—New Orleans, La.—Bd. Port Comrs., New Court House Bldg., making plans providing mooring facilities along Mississippi River front from mouth of Navigation Canal to Amer. Sugar Refinery, distance of 2 or 3 miles. Private plans.

Transmission Line—Wisconsin—Wisconsin Power, Light & Heat Co., Gay Bldg., Madison, plans transmission line in Green Lake Co. $25,000. Engineer not selected.

Gas Mains — Comanche, Tex. — Making plans mains to supply city with natural gas. $50,000. Jno. B. Hawley, 403 Cotton Exch. Bldg., Ft. Worth, engr.

Transmission Line, etc.—Mulhall, Okla.—Plans election $23,000 bonds for distribution system, also transmission line from here to Guthrie. Gantt Baker Co., 116 West Main St., Oklahoma City, engrs.

Tunnels, Conduit, etc. — Grass Valley, Calif.—See "Excavation, Drainage, Irrigation, Levees."

Underground Lighting Conduit—Leamington, Ont. — Plans 1½ to 2 mi. underground street lighting conduit and cable, and erecting 60 lighting standards.

Subway—Thamesville, Ont.—Dept. Highways, Toronto, plans subway under railway tracks in Longwoods Rd., near here. $95,000.

Stadium — Toronto, Ont. — Bd. Harbor Comrs., Harbor Bldg., made plans and soon takes bids concrete, brick and steel stadium, foot of Bathurst St. $300,000.

BIDS DESIRED

Athletic Field, etc.—Scituate, Mass.—Feb. 24, by R. W. Beal, archt., 62 Summer St., Boston, athletic field, running track, tennis courts and roadways, etc., about High School Building, here, for City. $25,000.

Athletic Field—Long Island City, N. Y.—Feb. 19, by Park Bd., Municipal Bldg., New York City, athletic field, in Forest Park, here.

Fire Alarm System, etc.—Ogdensburg, N. Y.—Mar. 4, by State Hospital Comn., Capitol, Albany, fire alarm system, etc., at St. Lawrence State Hospital, here; adv. E. N.-R. Feb. 12.

Fire Sprinklers—Willard, N. Y.—Mar. 4, by State Hospital Comn., Capitol, Albany, automatic fire sprinklers, at Willard State Hospital, here; adv. E. N.-R. Feb. 12.

Grade Separation—Springwells, Mich.—Feb. 24, by B. P. Esper, city clk., constructing Mulkey Ave.-Michigan Central R.R. grade separation. Hubbell, Hartgering & Roth, 2348 Penobscot Bldg., Detroit, consult. engrs.; adv. E. N.-R. Feb. 12.

Underpass—Nevada—Feb. 18, by State Hy. Comn., Carson City, underpass under Central Pacific R.R. tracks near Fernley, Lyon Co., 4,600 cu.yd. excav., 675 cu.yd. Class B concrete, state to furnish gravel and sand. G. W. Borden, Heroes Memorial Bldg., Carson City, highway engr.

Underway—Aptos, Calif.—Supervs. Santa Cruz Co. (Santa Cruz), taking bids underway under Southern Pacific R.R. track, here, 13,000 cu.yd. roadway and 2,600 cu. yd. structural excav., 478 ft. 12, 18 and 24 in. corrugated iron pipe culverts, 2,600 lbs. reinforcing, etc. L. Bowman, co. surv.

Street Lighting System — San Gabriel, Calif.—Feb. 24, by I. H. Stouffer, city clk., metal standards on Alhambra and Shorb Rds., etc. To exceed $25,000. Noted Aug. 21.

BIDS RECEIVED

Special Work — Brooklyn, N. Y. — Bd. Transportation, 49 Lafayette St., New York City, specila work for use in constructing Bway., 4th Ave. extension, here, from Lloraine Steel Co., 71 Bway., New York City, $9,522.

Landing Platform—New York, N. Y.—M. Cosgrove, comr. Docks, Pier A, foot Battery Pl., Feb. 5, extending Battery landing platform and berth for baths, Contr. 1846, from A. N. Spooner & Son, Pier 11, North River, $22,811 and $2,320 respectively. Noted Jan. 29.

Grade Separation—Springwells, Mich.—B. P. Esper, city clk., Municipal Bldg., Jan. 27, grade separation at Schafer Rd., and Detroit & Ironton Ry., incl. steel deck bridge encased in concrete with rein.-con. walls and piers, and depressing 1,560 ft. road, 86 ft. from R. A. Mercier, 5435 Wesson Ave., Detroit, $285,000. Noted Jan. 8.

CONTRACTS AWARDED

Stadium—Pittsburgh, Pa.—University of Pittsburgh, 600 x 800 ft. rein.-con. stadium, campus, to Turner Constr. Co., 11 Goodell St., Buffalo, N. Y.

Stadium—Baton Rouge, La.—University of Louisiana, rein.-con. stadium addition, to Haase & Barbay, Baton Rouge, $28,700.

Pier—Seattle, Wash.—Arden Salt Wks., 150 x 240 ft. piling and heavy timber pier with portion superstructure 2 stories high, to H. Pederson, Alaska Bldg., Seattle, $60,000.

Oil Tank—El Segundo, Calif.—Standard Oil Co., 3,000,000 bbl. tank to Bent Bros., 418 Pecan and 4th Sts., Los Angeles.

Grandstand — Los Angeles, Calif. — Los Angeles Baseball Club, 1940 South Hill St., approximately 3,000 tons steel for rein.-con. and steel grandstand, 20,000 (ultimately 30,000) seating capacity, to Llewlyn Iron Wks., Main and Redondo Sts. Noted Jan. 8.

Street Lighting System—Turlock, Calif.—Street lighting system on various streets, to Osborn Electric Co., Turlock, $66,900. Noted Feb. 5.

Material and Equipment

PROPOSED WORK

Pipe, Chino, Calif. — City plans to purchase 3,100 ft. 4 in. and 2,500 ft. 2 in. standard black I. D. screw casting pipe. M. L. Birnie, city clk.

Rock Crusher — Grass Valley, Calif. — C. F. Lobecker, city clk., plans to purchase rock crusher, for city.

Cement, Asphalt, etc.—Brantford, Ont.—Takes bids about Feb. 15, cement, asphalt, stone dust, sewer pipe, castings, etc. $45,000. F. P. Adams, city engr.

Pipes—Kingston, Jamaica—Plans 30 mi. 4, 6 and 9 in. (mixed sizes) earthenware glazed socket pipes.

BIDS DESIRED

Trucks — West New Brighton, N. Y. — Feb. 18, by J. A. Lynch, pres. Richmond Boro., St. George, two 2 ton and one 3 ton automobile trucks, and one 3½ ton semi-trailer, at Clove Rd. garage, here.

Sand Grit—New York, N. Y.—Feb. 16, by J. Miller, pres. Manhattan Boro, Municipal Bldg., 2,500 cu.yd. sand grit.

Road Material—Freehold, N. J.—Feb. 25, by Bd. Chosen Freeholders Monmouth Co., Court House, furnishing crushed stone, slag and gravel during 1925. G. K. Allen, Jr., Red Bank, co. engr.; adv. E. N.-R. Feb. 12.

Concrete Mixer — Tyrone, Pa. — F. K. Lukenbach, city treas., taking bids concrete mixer, two bag capacity, for Boro.

Bituminous Material—Virginia—Mar. 3, at office of State Hy. Comn., State Office Bldg., Richmond, bituminous material for State and State Aid System. C. S. Mullen, ch. engr.; adv. E. N.-R. Feb. 12.

Coal Tar — Cincinnati, O. — Feb. 18, by Director Pub. Serv., City Hall, 1,250 tons coal tar road binding material $43,750, and 400 tons coal tar pitch filler $12,000, to Div. Street Repairs. F. Krug, City Hall, engr.

Sewer Cleaning Machine—Cleveland, O.—City, W. K. Hoare, comr. Purchases and Supplies, in market for sewer cleaning machine.

Loading Equipment, etc.—Columbus, O.—R. M. Miller Co., Essex Ave. and Penn R.R., in market for heavy loading and unloading equipment for new yard, also small steam shovel.

Asphalt Filler, etc.—Kenosha, Wis.—Feb. 16, by C. M. Osborn, city mgr., 50 tons asphalt filler, 3 tons 24 in. motor broom fibre, and ¾ ton 24 in. gutter broom wire.

Snow Plow—Oconto, Wis.—E. McAllister, highway comr., in market for additional snow plow, for Oconto Co.

Road Oil—South Milwaukee, Wis.—Feb. 16, by R. J. Schauer, city clk., 2 to 5 carloads road oil.

Trucks — Waukesha, Wis. — Feb. 17, by C. J. Hahn, highway comr. Road and bridge Com., seven 3.5 ton motor trucks, for Waukesha Co.

BIDS RECEIVED

Tar Patch—Trenton, N. J.—Bd. Freeholders Mercer Co., Jan. 27, 50,000 gal. tar cold patch, from T. Tobish, Amer. Mechanic Bldg., $9,940. Noted Jan. 8.

Pipe—Baltimore, Md.—Bd. Awards, vitr. terra cotta pipe, Contr. 49, from Natl. Building & Supply Co., 210 Garrison Lane, $24,323. Noted Jan. 29.

Stone or Gravel—Oshkosh, Wis.—R. C. Steiner, highway comr. Winnebago, Co., Jan. 31, from Cook & Brown, Marion and Market Sts., 5,000 cu.yd. washed sand at $1.04 per ton, from Lutz, 1270 Knapp St., 11,000 cu.yd. crushed stone $1.42; from Northern Gravel Co., Barton, 11,000 cu.yd. gravel, $1.34.

CONTRACTS AWARDED

Ties and Timber—New York, N. Y.—Bd. Transportation, 49 Lafayette St., 17,000 ties and timber for construction of Rapid Transit R.R., to Robinson Lumber Co., 52 Vanderbilt Ave., $13,247. Noted Feb. 5.

Cement—Detroit, Mich.—Street Ry. Dept. & Bd. Pub. Wks., 200,000 bbls. Portland cement in bulk, f.o.b. cars or city teams or trucks, at plant, foot of Riopelle St., to Huron & Wyandotte Portland Cement Co., 1325 Ford Bldg., at $2.10 per bbl. in bulk.

Pipe—Sacramento, Calif.—For 215 tons c.i. pipe and fittings, to U. S. Cast Iron Pipe Co., Monadnock Bldg., San Francisco, $10,821.

Cement—Tracy, Calif.—W. Schlossman, secy. Banta-Carbona Irrigation Dist., to Cowell Lime & Cement Co., 2 Market St., San Francisco, 7,500 bbls. cement delivered Tracy at $2.73 per bbl., Carbona $2.75, Yarmouth $2.78, Fitz $2.75, and Lyoth $2.75. Noted Feb. 5.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate: 40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: Feb. 25.

Electric Light and Waterworks Improvements

Mansura, La.

Sealed bids will be received by the Mayor and Board of Aldermen of the Town of Mansura, La., at their regular meeting place until the hour of 10 a.m., of the day of Feb. 25th, 1925, for the following:

One 50 H.P., one 100 H.P., Crude Oil Engines. Directly connected Alternators and Power Pump 500 gals. per minute.

Two exciters, motor driven air compressor, motor driven centrifugal pump, 8" Tubular well, 68,000 gal. Concrete Reservoir, 50,000 Gal. Elevated Tower and Tank, Cast Iron Pipe Mains and Specials, Valves, Hydrants and Usual galvanized house connections, etc.

Complete Pole line materials, Transformers and Motors, etc.

Proposals must be marked in Red Letters. "PROPOSALS FOR LIGHT AND WATERWORKS IMPROVEMENTS."

All bids must be upon blank forms provided in the specifications.

Each bid must be accompanied by a Certified Cashier's Check (Bidders Bond not acceptable) in amount of 7% of the amount of bid. No amount less than $150.00 will be received. This amount is to be deposited as evidence of good faith.

Plans and specifications will be on file at the office of the Town Clerk, Dr. H. J. Siess, at Mansura, La., and at the office of the Engineer, F. P. Joseph, Glenmora, La.

Copies of the Plans and specifications, forms of proposals, etc., etc., may be obtained from the Engineer for the sum of $7.50 which amount is not refundable, and shall apply to cover the cost of same.

The right is reserved to reject any and all bids, waive any and all formalities or to accept any bids which in the opinion of the Board of Aldermen will best serve the interests of the Municipality.

ARTHUR J. ESCUDE, Mayor.
DR. H. J. SIESS, Clerk.
F. P. JOSEPH, M.E.,
Consulting Engineer,
Glenmore, La.

Bids: March 3.

Street Paving

Bluefield, W. Va.

Sealed proposals will be received at the office of the City Manager, Coal & Coke Building, Bluefield, West Virginia, until two o'clock P. M. March 3, 1925, for the following paving, all within the City of Bluefield:

PROJECT 1

Removal of old macadam; grading; storm sewer and catch basin work; curbing; concrete foundation, and surfacing approximately 24,000 square yards.

PROJECT 2

Grading; storm sewer and catch basin work; curbing, and paving, preferably with one-course concrete, approximately 18,000 square yards.

A complete set of specifications covering the above projects, together with incidental work pertaining thereto; instructions to bidders, and proposal blanks may be had upon request to the City Manager and the depositing of $5.00, which will be refunded upon their return in good condition.

Each proposal must be accompanied by a certified check of $3,000.00 for each project.

The right is reserved to reject any or all proposals.

CLARENCE E. RIDLEY,
City Manager.

OFFICIAL PROPOSALS

Bids: March 4.

State Hospital Work

Kings Park, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work, Fire House, Kings Park State Hospital, Kings Park, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 3 o'clock p.m., Wednesday, March 4, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to five per cent (5%) of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specifications Nos. 4354, 4355, 4356 and 4357. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Kings Park State Hospital, Kings Park, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23d St., and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check, or money in the sum of $25.00 made payable to the State of New York, for each set of Construction drawings and specifications and $10.00 for each set of Heating, Sanitary or Electric drawings and specifications which deposit will be returned if the drawings and specifications are received in good condition by the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated January 26, 1925.

Bids: March 5.

Sewer and Water Lines

Westerville, Ohio.

Sealed bids will be received by the City Manager of Westerville, Ohio, at the office of the City Manager until 12:00 noon, March 5, 1925, for furnishing the necessary labor and materials for sewer and water lines.

The work will consist of the following: 2,000 feet of 4" cast iron water mains, average depth four feet. 2,000 feet of 10" vitrified sewer pipe including 56 Y branches. 5 4" x 4" x 4" cast iron tees, 5 4" gate valves, 5 hydrants, 5 manholes. The average depth of the sewer is 5.5 feet, all laid according to plans and specifications on file in the office of the City Manager, Westerville, Ohio.

A deposit of $2.00 will be required on plans and specifications $1.00 of which will be refunded if plans and specifications are returned to the city manager on or before the day of the letting.

Each bid must be accompanied by a certified check for not less than 5% (five per cent) of the amount of the bid, as evidence of good faith.

The right is reserved by Council of the Village to reject any and all bids.

RICHARD BIEHL,
City Manager.

Feb. 2, 1925.

OFFICIAL PROPOSALS

Bids: Feb. 26.

Pipe Valves, etc.

Springfield, Mass.

Sealed proposals will be received by the Board of Water Commissioners of the Springfield Municipal Water Works, at its office in the Municipal Building, Springfield, Mass., until 11 o'clock A.M., February 26, 1925, for the following material:

150 lengths Class E. 6" cast iron water pipe.
2,300 lengths Class E. 8" cast iron water pipe.
400 lengths Class E. 10" cast iron water pipe.
300 lengths Class E. 12" cast iron water pipe.
25 Class I. 8"—1/16 Bends B. & S.
40 Class I. 8"—1/32 Bends B. & S.
10 Class H. 10"—1/32 Bends B. & S.
10 Class I. 8" Crosses all bell.
4 Class H. 12"x8" Reducers S. & B.
1 Class H. 16"x10" Reducer S. & B.
50 Class K. 4" Sleeves.
50 Class I. 6" Sleeves.
50 Class I. 8" Sleeves.
15 Class H. 10" Sleeves.
25 Class I. 8" Tees B. B.
10 Class H. 10" x 8" Tees B. B.
5 Class H. 12"x8" Tees B. B.
2 Class H. 12"x10" Tees B. B.

The proposal shall state price per ton of 2,000 lbs., F.o.b. Armory, Mass., for each size of pipe and each size and kind of special casting.

All pipe and special castings are to be manufactured in accordance with N. E. W. W. A. specifications.

Bids will also be considered for centrifugally cast pipe.

25—6" Valves B. B.
100—6" Valves B. & F.
50—8" Valves B. B.

The proposal shall state price per valve delivered F.o.b. Armory, Mass.

1,000—3/4" Corporations with tail pieces and with 3/4" extension piece on inlet end.
100—1" Corporations with tail pieces and with 3/4" extension piece on inlet end.
75—1 1/2" Corporations bodies only.
60—1 1/2" Corporations bodies only.
25—3/4" Inverted Key Curb Cocks.
1,000—1" Inverted Key Curb Cocks.
100—1 1/2" Inverted Key Curb Cocks.
100—1 1/2" Inverted Key Curb Cocks.
1,000—1" Inverted Key Stop and Waste Cocks with special handles.
100—1" Tee Handle M. & F. Cocks.
1,000—3/4" Compression Bibbs with hose spouts.

Prices shall be F.o.b. Armory, Mass.

Each proposal shall contain a statement as to the dates and rate of delivery of every item.

Each proposal shall be in a sealed envelope addressed to the Board of Water Commissioners, Springfield, Mass., and the kind of material bid on is to be plainly marked on the outside.

The right is reserved to eliminate any size from the proposal or to accept the proposal for any sizes without the acceptance of the entire bid. The right is also reserved to reject any or all bids or to accept any bid or any portion of any bid which it may be deemed to the interest of the City of Springfield so to do.

For further information and specifications, apply to the Superintendent.

BOARD OF WATER COMMISSIONERS,
SPRINGFIELD, MASS.
H. M. KING, Superintendent.

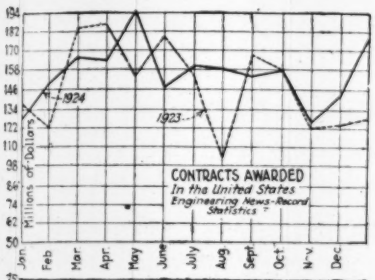
CONSTRUCTION NEWS

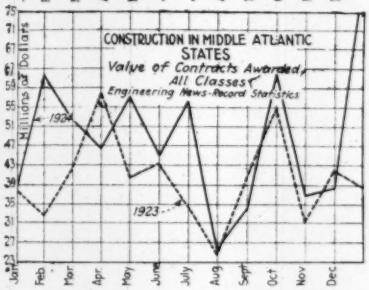
Engineering News-Record, February 19, 1925

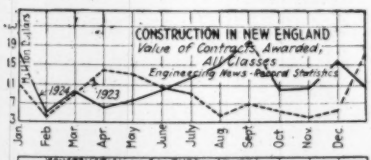
The Construction Barometer

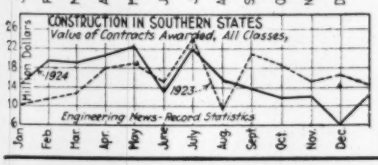
Developments in the Present Industrial Situation Indicate Healthy Activity for at Least First Half of Current Year

REASON for confidence in the general industrial outlook and in that for construction particularly, may be found in the following current developments: Steady increase in money value of contracts let since Jan. 1, in all sections of the country except New England and the Middle West; heavier volume than a year ago in the Middle Atlantic states and west of the Mississippi; unfilled orders on books of the U. S. Steel Corp., Jan. 31, heavier than at any time since August, 1923; favorable reports on advance orders in building materials for spring construction; freight loadings well above the 900,000 cars per week mark; active demand for non-ferrous metals products; substantial increase in bank debits; more extensive retail trade than at this time last year; expansion of the automotive industry; undiminished activity in the stock market; better conditions in the agricultural industry than at any time during the past four years.









Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

Value of Large Contracts Let In The United States

Week Ended	Public Work	Private Work	Total Contracts
Jan. 29	$9,194,000	$33,927,000	$43,121,000
Feb. 5	13,213,000	20,500,000	33,713,000
Feb. 12	12,609,000	25,577,000	38,186,000
3 weeks	$35,016,000	$80,004,000	$115,020,000

Large Building Contracts—Number and Value

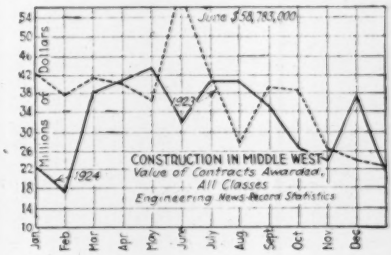
Week Ended	Commercial Public No.	Commercial Public Thousand	Commercial Private No.	Commercial Private Thousand	Industrial No.	Industrial Thousand
Jan. 29	5	$778	37	$24,384	34	$9,518
Feb. 5	11	3,525	27	17,107	18	1,539
Feb. 12	4	885	26	24,073	17	1,327
3 weeks	20	$5,188	90	$65,654	69	$12,384

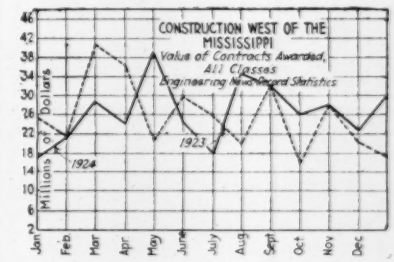
Number Of Large Jobs Now Out For Bids

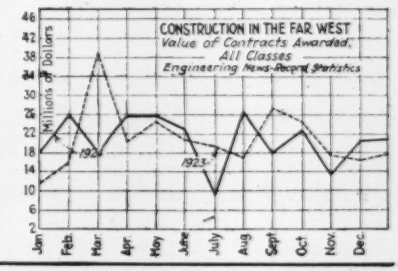
Week Ended	Private	Commercial Buildings	Streets and Roads	Water-works and Sewers	All Public
Jan 29	27	43	31	24	144
Feb. 5	23	40	41	34	174
Feb. 12	34	49	43	42	186

Basic Materials Prices at Important Points

	Quoted on Feb. 19 at	Last Price Change Was	On
Structurals, Pittsburgh, 100 lb.	$2.00 @2.20	$2.00 @2.10	Feb. 5
Cement, Chi., net bbl.	2.20	2.10	Jan. 15
Pine, N. Y., M. ft.	60.00	57.00	Jan. 15
Fir., San Fran., M. ft.	29.00	31.00	Oct. 30
Common labor, hr., U.S.	.54	.55½	Jan. 29







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Feb. 20	Mt. Vernon, N. Y.	Feb. 5
Feb. 20	North Tarrytown, N. Y.	Feb. 5
Feb. 20	Oneida, N. Y.	Feb. 5
Feb. 21	Pointsville, Ky.	Feb. 5
Feb. 21	Highland, Ill.	Feb. 19
Feb. 23	Pickneyville, Ill.	Feb. 19
Feb. 24	Tarrytown, N. Y. Adv. Feb. 12 and 19.	Feb. 19
Feb. 24	Sea Girt, N. J.	Feb. 19
Feb. 24	Clinton, Mass.	Jan. 22
Feb. 24	Sea Girt, N. J.	Feb. 5
Feb. 25	Fall City, Neb.	Feb. 12
Feb. 25	Mansura, La. Adv. Feb. 12 and 19.	Feb. 12
Feb. 25	Fond du Lac, Wis.	Feb. 19
Feb. 26	Manitowoc, Wis.	Feb. 19
Feb. 26	Springfield, Mass.	Feb. 12
Feb. 26	Sacramento, Calif.	Feb. 19
Feb. 27	Wauwatosa, Wis.	Feb. 19
Feb. 27	Aulander, N. C.	Feb. 19
Feb. 27	New London, Conn. Adv. Feb. 19.	Feb. 19
Mar. 2	Two Rivers, Wis.	Feb. 19
Mar. 3	Barberton, O.	Jan. 29
Mar. 3	New Brunswick, N. J.	Feb. 19
Mar. 5	Covington, Ky. Adv. Feb. 19.	Feb. 19
Mar. 5	Ambridge, Pa. Adv. Feb. 19.	Feb. 19
Mar 5	Quinton, Okla.	Feb. 19
Mar. 10	Ormond, Fla.	Feb. 19
Mar. 10	Piqua, O. Adv. Feb. 12 and 19.	Feb. 12
Mar. 16	New York, N. Y.	Feb. 5
Mar. 17	Kansas City, Mo. Adv. Feb. 19.	Feb. 19
Mar. 18	Kansas City, Mo. Adv. Feb. 19.	Feb. 19
Mar. 19	Kansas City, Mo. Adv. Feb. 19.	Feb. 19
Mar. 20	Kansas City, Mo. Adv. Feb. 19.	Feb. 19
Mar. 21	Kansas City, Mo. Adv. Feb. 19.	Feb. 19
Mar. 23	St. Augustine, Fla. Adv. Feb. 19.	Feb. 19

Bids Close — See Eng. News-Record

SEWERS

Feb. 21 Highland, Ill. ....Feb. 19
Feb. 23 Harvey, Ill. ....Feb. 19
Feb. 25 Long Island City, N. Y. ....Feb. 19
Feb. 25 Baltimore, Md. ....Feb. 19
Feb. 26 Wash., D. C. ....Feb. 19
Feb. 27 Aulander, N. C. ....Feb. 19
Mar. 2 Elgin, Ill. ....Feb. 5
Adv. Feb. 5 to 19.
Mar. 5 Rogers, Ark. ....Feb. 19
Mar. 5 Westerville, O. ....Feb. 12
Adv. Feb. 12 and 19.
Mar. 6 Richmond, Va. ....Feb. 19
Adv. Feb. 19.
Mar. 9 Decatur, Ill. ....Feb. 12
Mar. 9 Madison, S. D. ....Feb. 19
Mar. 10 Urbana, Ill. ....Feb. 12
Mar. 10 Lakeland, Fla. ....Feb. 19
Adv. Feb. 19.
Mar. 18 Elizabeth City, N. C. ....Feb. 19
Adv. Feb. 19.

BRIDGES

Feb. 24 Oklahoma ....Feb. 19
Feb. 25 Alabama ....Feb. 19
Feb. 27 Lancaster, Pa. ....Feb. 12
Feb. 28 Missouri ....Feb. 19
Mar. 2 California ....Feb. 19
Mar. 2 Vero, Fla. ....Feb. 19
Mar. 4 Allenhurst, N. J. ....Feb. 12
Adv. Feb. 12 and 19.
Mar. 4 Matawan, N. J. ....Feb. 19
Adv. Feb. 12 and 19.
Mar. 5 Charleston, S. C. ....Feb. 12
Adv. Feb. 12 and 19.
Mar. 10 Winnsboro, S. C. ....Feb. 19
Mar. 10 Williamsport, Pa. ....Feb. 19
Mar. 11 Brushvale, Minn. ....Feb. 19
Mar. 23 St. Augustine, Fla. ....Feb. 19
Adv. Feb. 19.

DAM

Feb. 26 Westminster, B. C. ....Feb. 5

EXCAVATION, DRAINAGE IRRIGATION, LEVEES

Feb. 24 Trenton, N. J. ....Feb. 19
Feb. 25 Glasgow, Mo. ....Feb. 19
Feb. 27 Madison, Wis. ....Feb. 19
Mar. 2 Ithaca, N. Y. ....Feb. 5

STREETS AND ROADS

Feb. 23 Kansas City, Kan. ....Feb. 5
Feb. 23 Osakis, Minn. ....Feb. 19
Feb. 23 Nortonville, Kan. ....Feb. 19
Feb. 24 Oklahoma City, Okla. ....Feb. 19
Feb. 24 Boston, Mass. ....Feb. 19
Feb. 24 St. Louis, Mo. ....Feb. 19
Feb. 24 Louisiana ....Feb. 19
Feb. 24 Peru, Ind. ....Jan. 22
Feb. 24 Urbana, Ill. ....Jan. 29
Feb. 24 Louisiana ....Feb. 5
Feb. 24 Juneau, Wis. ....Feb. 12
Feb. 24 San Diego, Calif. ....Feb. 12
Feb. 24 Oshkosh, Wis. ....Feb. 19
Feb. 25 St. George, N. Y. ....Feb. 19
Feb. 25 Florence, S. C. ....Feb. 19
Feb. 25 Pearsall, Tex. ....Feb. 5
Feb. 25 Kernersville, N. C. ....Jan. 29
Feb. 25 Cleveland, O. ....Feb. 19
Feb. 25 Cleveland Heights (Warrensville P. O.), O ....Feb. 19
Feb. 25 Duluth, Minn. ....Feb. 19
Feb. 25 Brooklyn, N. Y. ....Feb. 19
Feb. 26 Kenosha, Wis. ....Jan. 29
Feb. 27 Pennsylvania ....Feb. 5
Adv. Feb. 5 to 19.
Feb. 27 Greenburg, Pa. ....Feb. 12
Feb. 28 Missouri ....Feb. 19
Mar. 1 New Philadelphia, O. ....Feb. 5
Mar. 2 Kalama, Wash. ....Feb. 12
Mar. 2 New Jersey ....Feb. 12
Adv. Feb. 12 and 19.
Mar. 2 California ....Feb. 19
Mar. 2 Wilburton, Okla. ....Feb. 19
Mar. 2 Wichita, Kan. ....Feb. 19
Mar. 3 Greenville, S. C. ....Feb. 19
Mar. 3 Clinton, Okla. ....Feb. 19
Mar. 3 Lewisburg, W. Va. ....Feb. 19
Adv. E. N.-R. Feb. 19.
Mar. 3 Ocala, Fla. ....Feb. 19
Mar. 3 St. Louis, Mo. ....Feb. 5
Mar. 3 Wash., D. C. ....Feb. 12
Mar. 3 Bluefield, W. Va. ....Feb. 12
Adv. Feb. 12 and 19.
Mar. 4 Mobile, Ala. ....Feb. 5
Adv. Feb. 5 to 19.
Mar. 4 Ebensburg, Pa. ....Feb. 19
Mar. 4 Freehold, N. J. ....Feb. 19
Adv. Feb. 19.
Mar. 9 New Jersey ....Feb. 19
Adv. Feb. 19.
Mar. 10 St. Louis, Mo. ....Feb. 19
Mar. 10 Clinton, Okla. ....Feb. 19
Mar. 29 California ....Feb. 19
Mar. 30 Duluth, Minn. ....Feb. 12
Apr. 1 Birmingham, Ala. ....Feb. 19
Apr. 1 Tuscaloosa, Ala. ....Feb. 19
Feb. 20 Coney Island (Sta. Brooklyn), N. Y. ....Feb. 12
Feb. 21 East Concord, N. Y. ....Feb. 19
Feb. 24 Baltimore, Md. ....Feb. 19

Bids Close — See Eng. News-Record

BUILDINGS—INDUSTRIAL

Feb. 26 Morganza, Pa. ....Feb. 19
Feb. 27 Corona (Sta. Flushing), N. Y. ....Feb. 19
Mar. 1 Youngstown, O. ....Jan. 15

BUILDINGS—COMMERCIAL

Feb. 20 Phila., Pa. ....Feb. 5
Feb. 20 Germantown (Phila. P. O.), Pa. ....Feb. 5
Feb. 20 Detroit, Mich. ....Feb. 12
Feb. 20 Westfield, Mass. ....Feb. 19
Feb. 21 Greenville, Pa. ....Feb. 19
Feb. 21 New Jersey ....Feb. 5
Feb. 21 San Antonio, Tex. ....Feb. 12
Feb. 21 Phila., Pa. ....Feb. 19
Feb. 23 Jacksonville, Fla. ....Feb. 12
Feb. 23 Royal Oak (Detroit P. O.), Mich. ....Feb. 19
Feb. 23 Detroit, Mich. ....Feb. 19
Feb. 24 Willimantic, Conn. ....Feb. 19
Feb. 24 Hartford, Conn. ....Feb. 19
Feb. 25 Lancaster, O. ....Feb. 19
Feb. 25 Los Angeles, Calif. ....Feb. 19
Feb. 25 Milwaukee, Wis. ....Feb. 19
Feb. 25 Millvale, Pa. ....Feb. 19
Feb. 25 Petrolia, Ont. ....Feb. 12
Feb. 25 Baltimore, Md. ....Feb. 19
Feb. 25 Bridgeport, Conn. ....Feb. 19
Feb. 26 Pittsburgh, Pa. ....Feb. 19
Feb. 26 Rhinelander, Wis. ....Feb. 5
Feb. 26 Omaha, Neb. ....Feb. 12
Feb. 26 Phila., Pa. ....Feb. 19
Feb. 26 Vinland, N. J. ....Feb. 19
Feb. 27 Milwaukee, Wis. ....Feb. 19
Feb. 27 Bremen, O. ....Feb. 5
Feb. 27 Cleveland, O. ....Feb. 12
Feb. 27 Zelionople, Pa. ....Feb. 19
Feb. 28 Lancaster, Pa. ....Feb. 19
Mar. 1 Denver, Colo. ....Feb. 19
Mar. 2 Lewisburg, Pa. ....Feb.
Mar. 2 Ft. Scott, Kan. ....Feb. 19
Mar. 3 Kansas City, Mo. ....Feb. 12
Mar. 4 Kings Park, N. Y. ....Feb. 12
Adv. Feb. 12 and 19.
Mar. 4 Baltimore, Md. ....Feb. 19
Mar. 4 Woodhaven (branch Jamaica) N. Y. ....Feb. 19
Mar. 5 Hudson, N. Y. ....Feb. 5
Mar. 6 Fairview, O. ....Feb. 19
Mar. 15 Gonzales, Tex. ....Feb. 19
Mar. 17 Freeport, Ill. ....Feb. 5
Mar. 20 Johnstown, Pa. ....Feb. 19
Apr. 1 Zanesville, O. ....Feb. 19
July 14 Phila., Pa. ....Feb. 19

FEDERAL GOVERNMENT WORK

Feb. 20 Roofings—Florence, Ala. ....Jan. 29
Adv. Jan. 20 to Feb. 19.
Feb. 24 Service—Memphis, Tenn. ....Jan. 29
Feb. 24 Dredging, etc.—New York, N. Y. ....Feb. 12
Adv. Feb. 12 and 19.
Feb. 25 Alterations—Mare Island, Calif. ....Feb. 5
Feb. 25 Well Houses—Annapolis, Md. ....Feb. 5
Feb. 27 Towboat — Vicksburg, Miss. ....Jan. 29
Adv. Jan. 29 to Feb. 19.
Feb. 27 Boat Hull—Pittsburgh, Pa. ....Feb. 5
Adv. Feb. 5 to 19.
Feb. 27 Stone—Wilmington, Del. ....Feb. 5
Feb. 28 Barges—Vicksburg, Miss. ....Feb. 5
Feb. 28 Tower—New York, N. Y. ....Feb. 5
Adv. Feb. 5 to 19.
Mar. 2 Paving, etc.—San Diego, Calif. ....Feb. 5
Mar. 2 Wire, etc.—Memphis, Tenn. ....Feb. 5
Adv. Feb. 5 to 19.
Mar. 2 Rope—Memphis, Tenn. ....Feb. 5
Adv. Feb. 5 to 19.
Mar. 2 Repairs, etc.—Baltimore, Md. ....Feb. 12
Mar. 3 Storehouse—Jefferson Barracks, Mo. ....Feb. 5
Adv. Feb. 5 to 19.
Mar. 3 Pumping Units—Wash., D. C. ....Feb. 5
Adv. Feb. 5 to 19.
Mar. 5 Post Office—Parkersburg, W. Va. ....Feb. 12
Mar. 6 Steel Hull—Phila., Pa. ....Jan. 22
Mar. 6 Pipeline—Phila., Pa. ....Jan. 29
Adv. Feb. 12 and 19.
Mar. 9 Cable—Buffalo, N. Y. ....Feb. 19
Adv. Feb. 19.
Mar. 9 Boiler House—Phila., Pa. ....Feb. 19
Adv. Feb. 19.
Mar. 10 Dam—Mitchell, Neb. ....Feb. 5
Mar. 12 Turbines—Denver, Col. ....Feb. 5
Mar. 12 Barge—Wilmington, N. C. ....Feb. 12
Adv. Feb. 12 and 19.
Mar. 12 Steel Bars—Milwaukee, Wis. ....Feb. 12
Adv. Feb. 12 and 19.
Mar. 16 Post Office—Gilmer, Tex. ....Feb. 19
Adv. Feb. 19.
Mar. 17 Buildings—Great Lakes, Ill. ....Feb. 19
Adv. Feb. 19.

Bids Close — See Eng. News-Record

Mar. 17 Post Office—Kenton, O. ....Feb. 19
Adv. Feb. 19.
Mar. 20 Dredging—Providence, R. I. ....Feb. 19
Adv. Feb. 19.
Apr. 8 Hangers—Pearl Harbors, H. T. ....Feb. 19
Adv. E. N.-R. Feb. 19.

UNCLASSIFIED

Feb. 24 Refrigeration Works, etc.—Auburn, N. Y. ....Jan. 29
Feb. 24 Grade Separation—Springwells, Mich. ....Feb. 12
Feb. 24 Ornamental Street Lighting System — San Gabriel, Calif. ....Feb. 12
Feb. 24 Athletic Field, etc.—Scituate, Mass. ....Feb. 12
Feb. 26 Wall—Fraser River, B. C. ....Feb. 19
Mar. 3 Subway—Martinez, Calif. ....Feb. 19
Mar. 4 Fire Alarm System—Ogdensburg, N. Y. ....Feb. 12
Adv. Feb. 12 and 19.
Mar. 4 Fire Sprinklers—Willard, N. Y. ....Feb. 12
Mar. 5 Sanitary Works, etc.—Randalls Island (mail New York), N. Y. ....Feb. 5
Mar. 11 Fire Sprinklers—Brooklyn, N. Y. ....Feb. 19
Adv. Feb. 19.
Mar. 17 Subway—Phila., Pa. ....Feb. 19
Adv. Feb. 19.
Mar. 23 Estuary Tube—Oakland, Calif. ....Feb. 5

MATERIAL AND EQUIPMENT

Feb. 20 Granite Block—Cleveland, O. ....Feb. 19
Feb. 23 Road Oil—Marshfield, Wis. ....Feb. 19
Feb. 23 Cement, etc.—Minneapolis, Minn. ....Feb. 19
Feb. 24 Tar—Minneapolis, Minn. ....Feb. 19
Feb. 24 Road Oil—Ripon, Wis. ....Feb. 19
Feb. 24 Asphalt, etc.—Ottawa, Ont. ....Feb. 19
Feb. 24 Road Roller — Columbia, S. C. ....Feb. 19
Feb. 25 Rock Crusher with elevator—Lebanon, Tenn. ....Feb. 19
Feb. 25 Lumber, etc.—New York, N. Y. ....Feb. 19
Feb. 25 Road Material—Freehold, N. J. ....Feb. 12
Adv. Feb. 12 and 19.
Feb. 26 Oil Distributer—Minneapolis, Minn. ....Feb. 19
Feb. 27 Asphalt, etc. — Hamilton, Ont. ....Feb. 19
Adv. Feb. 12 and 19.
Mar. 3 Bituminous Material — Virginia ....Feb. 12
Mar. 3 Tractor—Winona, Minn. ....Feb. 19
Mar. 3 Grader—Jamestown, N. D. ....Feb. 19
Mar. 6 Road Machines, etc.—Grand Forks, N. D. ....Feb. 19
Mar. 10 Dragline Machine—Greenville, Miss. ....Feb. 19
Adv. Feb. 19.
Apr. 1 Crane — Melbourne, Australia ....Feb. 19

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. C., Fairmont—Plans to issue $18,000 bonds waterworks improvements.

N. C., Roseboro—Making plans waterworks. $60,000. J. B. McCreary Co., Charlotte, engrs.

N. C., Windsor — Plans to sell $100,000 bonds for new waterworks and sewers.

Fla., Ft. Lauderdale — Plans election $120,000 bonds extending waterworks. J. Lawson, city clk.

Fla., New Smyrna—Voted $70,000 bonds, extending waterworks. M. Palton, city mgr.

Fla., South Jacksonville—Election March 4, $88,000 bonds, extending water system. P. C. Marion, chn. city council.

Fla., Titusville—Election Mar. 10, $65,000 bonds, waterworks improvements in various streets. Address City Commissioners.

La., Churchpoint — Election Mar. 10, $50,000 bonds for waterworks.

La., Donaldsonville—Making plans and takes bids about Apr. 1, filtration plant, tower and tank, settling tanks, reservoir, etc. J. W. Billingsley, Interstate Bank Bldg., New Orleans, consult. engr.

La., Kinder—Election soon $50,000 bonds for waterworks.

O., Cincinnati—Hamilton Co. plans 3,400 ft. 16 in. c.i. mains in Water Supply Line

Waterworks (Continued)

7, Dist. 1, (Silverton) Contr. 1, $22,698, and 3,650 ft. 16 in. c.i. mains in above, Contr. 2, $22,600. L. C. Boyatt, Court House, engr.

Mich., Wyandotte—Making plans extending mains incl. 30 in. main in Vine St., 20 in. main in 4th St. and Ford Ave., 12 in. main in Eureka and Ford Aves., 10 in. main in Fort St. $250,000. Hubbell, Hartgering & Roth, 2348 Penobscot Bldg., Detroit, engrs.

Ill., Niles Center—Takes bids about Mar. 1, 6- to 12-in. mains, valves, hydrants, etc. in territory adjacent to recently completed extension of Chicago Rapid Transit Co. $400,000. Consoer, Older & Quinlan, Inc., Marquette Bldg., 140 Dearborn St., Chicago, consult. engrs.

Neb., Ruskin—Election March 2, $16,100 bonds, for water system. Henningson Eng. Co., 12th St., Omaha, engrs. Noted Jan. 15.

Mo., Ash Grove—Election in April, bonds to exceed $15,000 for waterworks, tank on tower, distribution mains, etc.

Mo., Poplar Bluff—Election April 7, $150,000 bonds, water improvements, incl. filtration plant, reservoir, main extensions, etc. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, engrs. Noted Dec. 11.

Mo., Steele—Voted $38,000 bonds waterworks and distribution system. A. C. Moore, 222 West 3rd St., Joplin, engr.

Tex., Brady — Voted $100,000 bonds waterworks improvement, incl. pumping equipment, new mains, tower, tank, etc. $100,000. E. L. Jones, mayor.

Tex., Cross Plains—Voted $40,000 bonds complete waterworks. Elrod Eng. Co., 3124 Main St., Dallas, engrs.

Tex., Donna—Election Feb. 24, $50,000 bonds waterworks improvements. W. E. Whigham, mayor.

Tex., Giddings — Plans improving waterworks. $46,000. J. D. Fields, mayor.

Tex., Lometa — Plans election $42,000 bonds, drilling 2 wells for water supply and other waterworks improvements.

Tex., Mexia—R. D. Morgan, city secy., soon takes bids waterworks improvements. $40,000. Noted Feb. 12.

Tex., San Angelo—See "Sewers."

Tex., San Antonio — Purchased San Antonio Water Supply Co.'s plant for $6,500,000 and plans election about April 1, $7,000,000 bonds of which $500,000 will be for immediate improvements to plant. I. Ewig, city engr.

Okla., Lawton—Making preliminary plans new 6 m.g. rapid sand filtration plant, for city and U. S. Army post at Ft. Sill. $175,000. H. G. Olmsted, Oklahoma Bldg., Oklahoma City, engr. Noted Jan. 8.

Calif., Hemet—Making plans two 14 in. wells, pumps and motors, 3 mi. steel supply line, storage reservoir, etc. To exceed $100,000. Burns-McDonnell-Smith Eng. Co., Marsh-Strong Bldg., Los Angeles, engrs. Noted Dec. 4.

Calif., Huntington Park—Making plans 200,000 gal. elevated steel tank and tower, 100,000 gal. rein.-con. reservoir, 1 centrifugal pump and electric motor, fire hydrants, etc. $25,000 or more. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr. Noted Feb. 5.

Calif., Mayfield—Making plans placing 2 in. mains with 4 in. mains in 3 mi. various streets. C. Moser, 651 Homer Ave., Palo Alto, engr.

Calif., Redwood City — Plans election $30,000 bonds additional reservoir for water system. C. L. Dimmitt, city engr.

Calif., Tracy—See "Excavation, Drainage, Irrigation, Levees."

Que., Hull—Plans to purchase gas or oil engines and two 2 m.g. pumps. T. Lanctot, city engr.

Ont., Bircheliff—Scarboro Twp. plans two 1,000 g.p.m. 3 stage centrifugal pumps. R. Harrison, 1361 Kingston Rd., Toronto, twp. engr.

Ont., Hamilton — Plans chlorination system at pumping station. $10,000. W. L. McFaul, city engr.

Ont., Ottawa — Bd. Control soon takes bids water meters. $30,000. A. F. Macallum, city engr.

Ont., Ottawa—See "Sewers."

Ont., Toronto — Making plans extending c.i. mains in various streets. $256,400. R. C. Harris, city engr.

Ont., Toronto—Plans to expend $710,600, extending high pressure fire system in Sherbourne, Bay, Terauley, Dundas, Chestnut, Albret and James Sts. R. C. Harris, city engr.

B. C., Vancouver—Election Feb. 28, $1,250,000 bonds for new 36 in. steel mains and other works. C. Brackenridge, city engr.

BIDS DESIRED

R. I., Providence—Bd. Contract & Supply, Feb. 11, 5 mi. 60 in. c.i. mains, etc., in various streets, from C. A. Haggerty, Webster, Mass., $306,500. Noted Jan. 22.

Conn., New London—Feb. 27, at office of J. W. Sheedy, city purch. agt., Municipal Bldg., 18,900 or 26,300 ft. c.i. water pipe, etc. W. A. Holt, city mgr; adv. E. N.-R. Feb. 19.

N. Y., Tarrytown—Feb. 24, by Bd. Water Comrs. of Fairview Water Dist., at office Town Clerk of Greenburgh, 19 North Bway., Tarrytown, water supply system. Wulff Eng. Co., Natl. Bank Bldg.; adv. E. N.-R. Feb. 19.

N. J., New Brunswick—Mar. 3, by City Comn., 2,000 ft. 8 in. and 2,000 ft. 6 in. Class "B" bell and spigot pipe and special castings. A. Atkinson, city engr.

N. J., Sea Girt — Feb. 24, by Common Council, 15 tons 6 in., 5 tons 10 in. and 1 ton 4 in. B. & S. pipe, c.i. plugs, gate valves, etc. C. A. Bond, Jr., boro. clk.

Pa., Ambridge—Mar. 5, by Water Comn., Boro Bldg., Merchant and 10th Sts., for pumping equipment. D. M. Cooper, pres.; adv. E. N.-R. Feb. 19.

N. C., Aulander—Feb. 27, by L. Taylor, mayor, and Bd. Town Comrs., reservoir, 4½ mi. mains and 60 water taps with supply pipe run to curb line. R. E. White, Aulander, engr.

Fla., Ormond—Mar. 10, by D. P. Carnell, ch. Bd. City Managers, drilled wells, centrifugal pumps, water softener, pumping station, steel tank, 64,000 ft., 6- to 10-in. c.i. pipe, 25 tons fittings, 50 hydrants, 15,000 ft. 1½ in. galvanized pipe, etc. Main Eng. Co., Daytona, engrs.

Fla., St. Augustine—Mar. 23, by City, improving waterworks. J. E. Craig, 427 King St., Jacksonville, consult. engr.; adv. E. N.-R. Feb. 19.

Ky., Covington—Mar. 5, by Bd. City Comrs at Court House, watertight, circular rein.-con. dry well, 79 ft. deep and 35 ft. inside diam. J. F. Kingsley, engr.; adv. E. N.-R. Feb. 19.

Wis., Fond du Lac—Feb. 25, by Water Dept., J. Breister, supt., season's supply c.i. pipe and specials.

Wis., Manitowoc — Feb. 26, by A. H. Zander, city clk., development and delivery to water distribution system daily quantity of not less than 3 m.g. water.

Wis., Two Rivers—Mar. 2, by Bd. Pub. Wks., J. Doleysh, secy., 114 tons 6 in. Class "C" c.i. pipe, 2 tons Class "D" special castings, five 6 in. Eddy fire hydrants, twenty-six 6 in and four 4 in. valves for Water Dept.

Wis., Wauwatosa—Feb. 27, by Bd. Pub. Wks., A. V. Brigham, secy., twenty-five 5 in. fire hydrants, twenty-five 6 in., and six 8 in. gate valves.

Ill., Highland—Feb. 21, by M. D. Tibbetts, city clk., 52,774 ft. 2- to 8-in. c.i. pipe, 65 hydrants, seventy-one 2- to 8-in. valves and boxes, two 300,000 gal. units in filtration plant, incl. mixing bed, clear wells, etc., also two 700 g.p.m. motor driven centrifugal pumps, etc. $175,000. C. E. Wilson, Marion, and L. Day, 34 East Grand St., St. Louis, Mo., engrs. Noted Jan. 22.

Ill., Pinckneyville—Feb. 23 (extended date), by P. J. C. Ham, city clk., 1,400 g.p.m. centrifugal pump, 500 g.p.m. pump and motor, 2,600 g.p.m. pumps and motor and one 500 g.p.m. fire pump and gasoline engine. A. H. Beard Eng. Co., 616 Title Guaranty Bldg., St. Louis, Mo., engrs. Noted Feb. 5.

Mo., Kansas City—Mar. 17, by A. J. Stewart, purch. agt. additional water supply, Contrs. 14 and 15, Mar. 18, for Contrs. 7, 8, 9 and 10; March 19, for Contrs. 1, 2 and 6; Mar. 20, for Contrs. 11 and 13, and Mar. 21, for Contr. 12. Fuller & Maitland, engrs.; adv. E. N.-R. Feb. 19.

Tex., Corpus Christi—Taking bids waterworks improvement, incl. 3 electrically operated low service centrifugal pumps, 1,400 g.p.m. each, 3 electrically operated high service centrifugal pumps, two 1,050 and one 700 g.p.m., two 150 to 200 hp. diesel engines direct connected to generators. $100,000. N. Werenskiold, Marvin Bldg., Dallas, consult. engr. Noted Jan. 8.

Okla., Quinton—Mar. 5, by H. J. Byers, city clk., new filtration plant, elevated tank, pumps, settling basin, 130 ft. 6 in. c.i. pipe, two 150 g.p.m. pumps, etc. $22,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Jan. 15.

Calif., Sacramento — Feb. 26, by City Commissioners constructing 190 ft. concrete chamber wall, 20 ft. high, for filtration plant, 992 cu.yd. concrete, sixty-four 30 ft. concrete piles, 654 cwt. reinforcing, 50,000 lbs. structural steel. $40,000. A. J. Wagner, city engr. Noted Jan. 29.

BIDS RECEIVED

Md., Baltimore — Bd. Awards, c.i. pipe and fittings, to Water Dept., from U. S. Cast Iron Pipe Co., Burlington, N. J., $162,600; 250,000 lb. pig lead, from N. Trott Co., 36 North Front St., Phila., Pa., $24,425; 150,000 lb. lead substitute, from Lead-Hydro-Tite Co., 192 Boylston St., Boston, Mass., $17,813. Noted Feb. 5.

CONTRACTS AWARDED

N. Y., Long Island City—N. J. Hayes, comr. Water Supply Gas & Electricity, Municipal Bldg., New York City, mains in Skillman and 4th Aves., Bliss and Carolin Sts., etc., here, to J. A. Gregory, 351 East 124th St., New York City, $12,209. Noted Feb. 12.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Barnes, Blondell, Brady, Cromwell, Duryea, Fowler, LaSalle and Manning Aves., etc., to Norton Eng. & Contg. Co., 510 West 149th St., $17,860. Noted Feb. 12.

N. C., Siler City—Bd. Aldermen, 200,000 gal. rein.-con. reservoir, 100,000 gal. steel tank tower, sewage disposal plant, pump house and 6, 8, 10 and 12 in. c.i. and terra cotta water and sewer pipe, to J. B. McCrary, Citizens & Savings Bank Bldg., Atlanta, Ga., about $40,000.

Kan., Cuba — Waterworks, distribution system, tank on tower, reservoir, etc., to Burt & Tripp, Hutchinson, $27,493. Noted Feb. 12.

Kan., Ellsworth—For 4,700 ft. ditch, to R. E. Funk, Ellsworth; and pump house, to F. E. Sterling, Ellsworth. Engrs. est. $23,000.

Mo., Bloomfield—W. A. Humphrey, city clk., City Hall, 10,446 ft. 6 in., 12,000 ft. 4 in. and 700 ft. 2 in. c.i. mains, 18,000 lbs. specials, 27 valves and boxes, 49 hydrants, etc., to J. McNeil, Leavenworth, Kan., $25,640. Noted Jan. 29.

Mo., Salem — For 47,500 ft. 2- to 8-in. mains, hydrants, valves, drilled well, deep well pump, 250 g.p.m. triplex pump, 100,000 gal. storage reservoir, 7,500 gal. tank on tower, etc., to W. F. Plummer, Inc., Union Natl. Bank Bldg., Springfield. Noted Jan. 15.

Tex., Houston—O. F. Holcombe, mayor, 8 in. mains in Bayland Ave. from Regal St. to Norhill addition, and in Telephone Rd. from Pease Ave. to Lawndale Sts., to Youman & High, West Bldg., $16,559.

Okla., Morrison—New waterworks, incl. 14,319 ft. 4- to 8-in. c.i. pipe, deep well pump, wells, engines, tanks, valves, hydrants, etc., to H. Askins, Cushing, $25,311. Engrs. est. $27,000.

Sewers

PROPOSED WORK

Mass., Woburn — City and Metropolitan Dist. Comn. Boston, plan trunk line sewer through the Aberjona Valley. $300,000. J. R. Rablin, Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, engr. Noted Aug. 7.

N. C., Roseboro—Making plans sewerage system. $25,000. J. B. McCreary Co., Charlotte, engrs.

N. C., Windsor—See "Waterworks."

Fla., South Jacksonville — Election Mar. 4, $72,000 bonds, extending sewerage system in various streets. P. C. Marion, chn. city council.

Fla., Titusville—Election Mar. 10, $150,000 bonds, sanitary sewers in various streets. Address City Commissioners.

Ill., Deerfield—Making plans East Side and Northwest Side sewerage systems, $100,000 and $55,000 respectively. Consoer, Older & Quinlan, Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.

Ill., Jonesboro—Soon takes bids 8 and 10 in. sanitary sewers in various streets and disposal plant. $40,000. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louise, Mo., engrs.

Ill., Morris—Takes bids about Mar. 15, 4th Ward sewers. $26,000. Consoer, Older & Quinlan, Inc., Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.

Ill., Niles Center — Takes bids about Mar. 1, 12- to 84-in. vitr. tile, precast concrete or monolithic concrete sewers in territory adjacent to recently completed extension of Chicago Rapid Transit Co. $1,100,000. Consoer, Older & Quinlan, Inc., Marquette Bldg., 140 Dearborn St., Chicago, consult. engrs.

Wis., Milwaukee—Lake Twp. Milwaukee Co. making plans 5 to 8 mi. sewers in various streets, near here. To exceed $25,000. H. C. Webster, 216 West Water St., Milwaukee, engr.

N. D., Dickinson—Plans storm sewers in various streets. $80,000. R. C. Hill, city auditor.

Ark., McGehee—Soon takes bids sanitary sewerage system, disposal plant, etc. $135,-

Sewers (Continued)

000. F. A. Pritchett, Reigler Bldg., Little Rock, engr.

Tex., Donna — Election Feb. 24, $40,000 bonds for sanitary sewers. W. E. Wigham, mayor.

Tex., Rosebud—Election Feb. 26, $38,000 bonds, sewerage system. G. W. Lehman, mayor.

Tex., San Angelo—Making plans sewerage system, incinerator, mains, etc. $60,000. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs. Noted Dec. 25.

Colo., Denver—Rejected bids 1 mi. 8, 10 and 12 in. vitr. pipe sewers, necessary manholes in Alemeda to 4th Ave., Santa Fe to Platte Sts., South Side Special Sanitary Sewer Dist. 8. $42,760. A. K. Vickery, City Hall, engr.

Calif., Chico—Plans sewerage system for Chapmantown and Barber Dists., south of Little Chico Creek. To exceed $25,000. I. Morrison, city mgr.

Calif., Davis—Making plans 4,000 lin.ft. 8 in. vitr. outfall sewer and Imhoff tank, at University Farm. $30,000. H. Foster, University of California, Berkeley, engr.

Calif., El Cerrito—Making plans 4,528 ft. 6- to 10-in. vitr. outfall sewer in Behrens St.; also approximately 8 mi. 6- to 10-in. vitr. sewer in Berkeley County Club tract. R. L. Calfee, 221 South 22nd St., Richmond, engr.

Calif., Hermosa Beach — Making plans main sewerage system, $325,000, and lateral sewerage system, $175,000. V. Staheli, city engr. Noted Feb. 5.

Calif., Santa Barbara — Making plans complete sewerage system between 25 and 30 blocks various streets. To exceed $25,000. G. D. Morrison, city engr.

Ont., Hamilton—Making plans extending 6, 8 and 10 in. sewers in Homeside Dist., by day labor, under supervision of W. L. McFaul, city engr. $55,000.

Ont., Ottawa — Bd. Control soon takes bids 9, 12 and 18 in. vitr. clay sewers and mains, etc., in Clarendon and Huron Aves., etc. $90,000. A. F. Macallum, city engr.

Ont., Toronto — East York Twp. plans 2,220 ft. 24 in. vitr. tile or concrete sewers in Paulton Ave. $45,089. G. R. Jack, Municipal Yard, Sammon Ave., engr.

Ont., Toronto—East York Twp., Municipal Yard, Sammon Ave., plans vitr. tile sewers in 680 ft. 12 in. in Cedarvale Ave. $6,067, 650 ft. 12 in. in King Edward Ave. and Delaine Rd. $5,598, 630 ft. 12 in. in Coleridge Ave. and 330 ft. 15 in. in Strathmore Blvd. $10,175, 390 ft. 12 in. and 345 ft. 15 in. in Woodbine Ave. $7,463. G. R. Jack, Municipal Yard, engr.

Ont., Toronto—York Twp., 40 Jarvis St., plans 3,395 ft. 8- to 30-in. vitr. tile and concrete sewers in Humewood Dr., Humewood Gardens, Arlington, Normanna, and Winnett Aves. $32,000. F. B. Goedike, twp. engr.

Ont., Toronto—York Twp., 40 Jarvis St., voted $85,000 bonds 9,000 ft. concrete and brick sewers in Eglinton, Chamberlain and Caledonia Aves. F. B. Goedike, twp. engr.

BIDS DESIRED

D. C., Wash. — Feb. 26, at Room 427 Dist. Bldg., 4,614 ft. sewer, 12 in. to 5 ft. 6 in. diam.

Md., Baltimore—Feb. 25, by Bd. Awards, 12,000 ft. lateral sanitary sewers in Dist. 47 E. Contr. 217. B. L. Crozier, City Hall, highways engr.

Va., Richmond — Mar. 6, at office of R. K. Compton, dir. Pub. Wks., City Hall, furnishing segment block, precast rein.-con. and terra cotta pipe, cement, brick castings and steps; also constructing segment block, terra cotta and precast rein.-con., sewers; adv. E. N.-R. Feb. 19.

N. C., Aulander—Feb. 27, by L. Taylor, mayor and Bd. Town Comrs., 4 mi. sewer lines and septic tank. R. E. White, Aulander, engr.

N. C., Elizabeth City—Mar. 18, by Utility Comn., Chamber of Commerce, three sanitary sewerage system. W. C. Olsen, Raleigh, engr.; adv. E. N.-R. Feb. 19.

Fla., Lakeland — Mar. 10, by City, for Lake Parker storm sewer, Lake Hunter, Pine St. and small storm sewers, outlet of sanitary sewers and collection system of sanitary sewers. C. C. Brown, city engr.; adv. E. N.-R. Feb. 19.

Fla., Vero—Mar. 2, by City Council, City Hall, 41,142 lin.ft. 6- to 18-in. sewer pipe, 168 ft. 6- to 18-in. c.i. pipe, 2 sewage pumping plants, etc. Carter & Damerow, Vero, engrs.

Ill., Harvey — Feb. 23, by J. A. Alten, city clk., 8,000 ft. 8- to 10-in. sewers, etc. in various streets.

Ill., Highland — Feb. 21, by B. D. Tibbetts, city clk., 43,198 ft. 6- to 15-in. vitr. clay sewers, 80 manholes, 13 drop manholes, treatment tank, etc. $115,000. C. E. Wilson, Marion, and L. Day, 34 East Grand St., St. Louis, Mo., engrs. Noted Jan. 22.

Ill., Lewiston—See "Streets and Roads."

S. D., Madison—Mar. 9, by J. W. Emberg, city aud. constructing sewage disposal plant. $25,000. Noted Oct. 16.

Ark., Rogers—March 5, by J. T. Carrol, secy. Sewer Impvt. Dist. 8, 16,100 ft. 8 and 10 in. vitr. clay pipe, 100 ft. 8 in. c.i. pipe, 36 manholes, 8 lamp holes, 2 flush tanks, 8,675 ft. 0 to 6 ft. 6,800 ft. 6 to 10 ft., 650 ft. 10 to 16 ft. trench, 1,400 cu.yd. rock and 600 cu.yd. earth excav. W. L. Winters, Merchants Natl. Bank Bldg., Garrison Ave., Ft. Smith, engr. Noted Oct. 9.

BIDS RECEIVED

R. I., Providence—Bd. Contract, Feb. 9, 125 cars sewer pipe, from Manchester & Hudson, Eddy St., Kaul clay pipe $36,000, standard at 69½% off; from J. C. Gouff, Point St., Amer. vitr. pipe $36,032, standard at 68½% off.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Feb. 13, sanitary sewers in 150th Ave. from Awixa Corp., Mt. Vernon, (A) $513,370, from Hamen Constr. Co., (B) $407.045; in Sutter Ave., from A. Paino, Corona, (A) $148,653, from J. H. Johnson, (B) $138,480. Noted Feb. 5.

N. Y., New York—J. Miller, pres. Manhattan Boro., Municipal Bldg., Feb. 16, sewers in Laurel Hill Terrace, from T. A. Reilly, 48 East 41st St., $44,990. Noted Feb. 12.

Md., Baltimore — Bd. Awards, Feb. 11, 7,500 ft. 8- to 48-in. sewers in Storm Water Contr. 80, from P. Marocco, 638 South Linwood Ave., $59,319.

Wis., Milwaukee—D. W. Hoan, chn. Central Bd. Purchases, from Milwaukee Grey Iron & Fdry. Co., 39th and Mitchell Sts., three hundred 3 flange frames and grates at $0.03 per lb., two hundred 4 flange frames and grates $0.04, twenty-five 3 flange frames and grates $0.03, and one hundred standard manhole covers $0.03. Noted Feb. 5.

Calif., Los Angeles—Bd. Pub. Wks., Sect. 1, Arroyo De La Sacatela storm drainage system covering approximately 16 sq.mi., main portion square box section 9 to 11 ft. wide and 8.5 to 10 ft. high, rein.-con., from Atkinson-Spicer Co., Chapman Bldg., approximately $1,279,500. Noted Jan. 15.

Calif., Santa Monica—For vitr. sewers in Georgia Ave. between 26th St. and 21st Pl., et al, from C. Fisher, 1682 4th St., approximately $31,000. Noted Jan. 29.

CONTRACTS AWARDED

N. C., Siler City—See "Waterworks."

La., Amite City—B. L. Goodman, mayor, and Bd. Aldermen, sewers and septic tank, to H. A. Forrest, New Orleans; furnishing c.i. pipe, to Amer. Cast Iron Pipe Co., Acipco St., Birmingham, Ala.; castings, to J. B. McCrary Co., Citizens & Savings Bank Bldg., Atlanta, Ga.; sewer pipe, to Southern Sewer Pipe Wks., 28th Ave. N., Birmingham, Ala.

Mich., Sturgis—For 2,080 ft. 54 in. tile segment block storm sewer and 1,850 ft. open ditch in South Clay and Florence Sts., to Wolvering Eng. Co., Mason, $44,820. Noted Jan. 20.

Mo., Kansas City—To T. P. Thompson, Kansas City, sewer in Dist. 490, Div. 5, $9,280; to Kinlen Constr. Co., 3426 Michigan St., in Dist. 528, Div. 7 $9,372, in Joint Dist. 46, 60 and 123, Div. 1, $2,294; to Halpin-Boyle Constr. Co., 709 Ry. Exch. Bldg., in Dist. 566, Div. 5 $2,211, in Dist. 464, Div. 5 $5,804.

Tex., Carthage—See "Streets and Roads."

Calif., Ripon — Ripon Sanitary Dist., sewerage system to W. J. Tobin, 527 Santa Ray Ave., Oakland, $28,650. Noted Feb. 12.

Calif., San Francisco — Bd. Pub. Wks., outfall sewer in Great Highway and Vicente St., 330 ft. 24 in. vitr. ironstone pipe encased in rein.-con., 1,396 ft. 21 in. vitr. ironstone pipe with concrete foundation, 1 rein.-con. spillway, 600 lin.ft. 6 in. vitr. ironstone pipe under drain embedded in concrete or broken rock, etc., to P. J. McHugh, 470 36th Ave., for City and San Francisco Co. $31,970. Noted Jan. 29.

Ont., Toronto—Vitr. tile sewers in lanes at Roxborough and Yonge Sts., to Natl. Contg. Co., 9 Garnock Ave., $2,728; in Fitzroy Terrace, to L. P. Acri, 102 Markham St., $825; interceptor concrete trunk sewer in 3,723 ft. Boulevard Dr., Sects. B and C, to Russell Constr. Co., Harbor Comn. Bldg., $43,684. Engrs. est. $50,000.

Ont., Toronto—Vitr. tile and brick trunk sewers in Weller St., to A. E. Jupp Constr. Co., Berkeley St., $1,358; in Burnside Dr., to W. E. Taylor, 22 Falcon Ave., $4,290; South Parkdale Sewer and Exhibition Interceptor Sewer, Sect. A, to W. E. Taylor, 22 Falcon St., $6,485, Sect. B, to Connolly & Agnew, 606 Ave. Rd., $17,279. Engrs. est. $30,000.

Waste Disposal

PROPOSED WORK

Calif., Los Angeles—Bd. Pub. Wks., rejected bids Jan. 20, 200 ton incinerator. To exceed $25,000. Will readvertise. Noted Jan. 29.

Bridges

PROPOSED WORK

Vt., Brattleboro — Bd. Selectmen, City Hall, plans 725 ft. steel bridge with one 425 ft. main span and two 150 ft. approaches over mouth of West River. $150,000. Address City Engineer. Noted Oct. 23.

R. I., Providence—Plans bridge, Point St. $400,000. F. E. Waterman, City Hall, city engr.

Fla., Ft. Lauderdale — Plans election $200,000 bonds for 2 bridges over New River, one at East Ave., and other near Colee Ave. J. Lawson, city clk.

Alabama—State Hy. Dept., Montgomery, plans ten 150 ft. and one 200 ft. bascule span steel and concrete bridges on Albany-Decatur Rd., Limestone and Morgan Counties. $400,000. W. S. Keller, highway engr.

Ala., Alaga — States of Alabama and Georgia plan 2 span 330 ft. bridge with concrete approaches, here, in Houstin Co. (Dothan), Ala., and Early Co. (Blakely), Ga. $75,000. W. S. Keller, Montgomery, Ala., highway engr.

Ala., Gadsden — State Hy. Dept., Montgomery, plans 11 span 1,400 ft. concrete bridge, 27 for roadway and two 5 ft. sidewalks, here, Etowah Co. $400,000. W. S. Keller, highway engr. Noted Dec. 11.

Tenn., Nashville—City and Terminal R.R. Assn., 125 9th Ave. S., plan viaduct over railroad tracks at Demombreum St. To exceed $25,000. H. E. House, mayor.

Wisconsin—City of Milwaukee and Milwaukee Co. making plans and take bids about Aug. 1, 330 ft. (505 ft. incl. approaches) concrete or steel, arch type bridge, 60 ft., with 10 ft. sidewalk, on Atwater Rd. between Milwaukee and Shorewood. $400,000. State Hy. Comn., Madison, engrs.

Wis., Manitowoc—City c/o A. H. Zander, city clk., plans steel, double leaf bascule bridge over Manitowoc River, at 8th St. $200,000.

Wis., North Milwaukee—City, c/o W. E. Chase, city clk., plans election $35,000 bonds, three steel or concrete bridges over small streams. H. C. Webster, 216 West Water St., Milwaukee, engr.

Wis., South Milwaukee—City, c/o R. J. Schauer, city clk., plans to issue $25,000 bonds, for 30 to 40 ft. steel or concrete bridge on Milwaukee Ave., and repairing present bridges. Engineer not selected.

Mo., St. Louis—Making preliminary plans 3 span rein.-con. and steel viaduct, 60 ft., over Mill Creek Valley on Grand Blvd. between Clark Ave. and Gratio, $750,000. Bartholomew, Municipal Courts Bldg., engr.

Mo., St. Louis—City, c/o Bd. Pub. Serv., making preliminary plans 3 spans 135 ft. rein.-con. bridge, 40 ft. wide overall, incl. 30 ft. roadway and 5 ft. sidewalk on 1 side, two piers and two abutments, over River Des Peres at Southwest Ave. $40,000. L. R. Bowen, 301 City Hall, engr.

Kansas—Saline Co. (Salina) making preliminary plans rein.-con. and steel bridge across Salina River at New Cambria, $20,000, and concrete and steel bridge over Solomon River, near Solomon, $25,000. W. H. Cost, Salina, engr.

Kan., Lyndon—See "Streets and Roads."

Kan., Marion—Marion Co. making preliminary plans two 50 ft. span steel and concrete bridge with 30 ft. roadway, over Mud Creek, Federal Aid Project 217, Sect. B, and two 30 ft. and one 100 ft. steel and concrete bridge with 20 ft. roadway, on Federal Aid Project 226. C. M. Hartsock, Marion, engr.

Kan., Russell—See "Streets and Roads."

Tex., Albany—See "Streets and Roads."

Tex., Baird—See "Streets and Roads."

Bridges (Continued)

Tex., Henrietta — See "Streets and Roads."

Tex., Jacksboro — See "Streets and Roads."

Tex., Orange—Orange Co. and State Hy. Dept., Austin, making plans 2 span, 200 ft. steel and concrete bridge across Sabine River. $250,000. Address County Commissioners. Noted Jan. 15.

Tex., Sweetwater — See "Streets and Roads."

Okla., Bedford—State Hy. Dept., Oklahoma City, made plans 2,265 ft. concrete and steel truss bridge with 5 spans and approach, in Pawnee Co., here. $155,000. J. M. Page, highway engr.

BIDS DESIRED

N. J., Matawan—Mar. 4, by Bd. Freeholders Monmouth Co., Freehold, reconstructing Main St. bridge, here. B. B. Newcomb, dir.; adv. E. N.-R. Feb. 19. Noted Feb. 12.

Pa., Williamsport—Mar. 10, by Commissioners Lycoming Co., two 180 ft. rein.-con. girder bridges, 24 ft., incl. 3 spans, two piers and abutments over Lycoming Creek. $200,000. M. H. Krause, Susquehanna Trust Bldg., engrs.

W. Va., Lewisburg — See "Streets and Roads."

S. C., Winnsboro—Mar. 10, at office Fairfield Co. Hy. Comn., 394 ft. rein.-con. bridge over Little River, on State Route 22, State Project S-535-C. State Highway Engineer, 1626 Main St., Columbia, engr.

Fla., St. Augustine—Mar. 23, at office E. Masters, city mgr., steel girder highway bridge over Matanzas River. J. E. Greiner & Co., Lexington Bldg., Baltimore, Md., consult. engr.; adv. E. N.-R. Feb. 19.

Alabama—Feb. 25, by State Hy. Dept., Montgomery, bridge on Georgiana-Conecuh Co. line Rd., 40,693 lb. reinforcing, 46,773 lb. structural steel, 4,588 ft. treated and 480 ft. untreated piling, 1,639 sq.yd. rock asphalt surfacing, etc.; also bridge on Fayette-New Lexington Rd., 368,452 lb. reinforcing, 1,900 cu.yd. dry, 3,513 cu.yd. wet and 153 cu.yd. rock excav., 67,000 lb. structural steel, 600 ft. untreated piling, etc. W. S. Keller, highway engr.

Minn., Brushvale — Mar. 11, by P. E. Truax, aud. Wilkin Co., Breckenridge, 100 ft. steel span bridge, 18 ft., with 20 ft. approach on east side, and three approaches on west side, etc., over Red River, here, for Richland Co. (Wahpeton), N. D., and Wilkin Co. (Breckenridge), Minn. $25,000. Noted Feb. 12.

Missouri—Feb. 28, by State Hy. Dept., Jefferson City, one 51 ft. and four 35 ft. rein.-con. deck girder spans, etc. over Missouri Pacific R.R. tracks, eight ft., two 10 ft., one 40 ft. and two 12 ft. rein.-con. slab spans, etc. over stream, all Johnson Co.; one 25 ft. rein.-con. deck girder span, etc. over Winn Creek, Macon Co.; one 60 ft. steel truss span, etc. over Culvre River, two 20 ft. rein.-con. slab spans, etc. over stream, both Audrain Co.; two 8 ft. and two 12 ft. rein.-con. slab spans, etc. over Camp Branch, Cass Co.; one 60 ft. rein.-con. arch span, spandrell filled over Long Branch, Caldwell Co.; three 100 ft. steel truss spans, etc. over Salt River, Shelby Co.; three 60 ft. steel truss spans and four 30 ft. I-beam spans, etc. over west fork Grand River, Worth Co.; two 12 ft. rein.-con. slab spans, etc. over stream, Marion Co. B. H. Piepmeier, ch. engr.

Tex., Eagle Pass — See "Streets and Roads."

Oklahoma—Feb. 24, by State Hy. Dept., Oklahoma City, 2 span 166 ft. steel and concrete bridge at Shawnee, Pottawatomie Co., 17,000 cu.yd. stone embankment, 900 ft. wood piling, etc., $35,000; and 10 span 877 ft. steel and concrete bridge at Harrah, Oklahoma Co., 894 cu.yd. concrete, 1,755 sq.yd. brick surfacing, etc., $150,000. J. M. Page, highway engr.

Oklahoma—Feb. 24, by State Hy. Dept., Oklahoma City, 2 span 140 ft. steel and concrete bridge at Overbrook, Love Co., $30,000; 2 span 160 ft. steel truss bridge on concrete piers at El Reno, Canadian Co., $45,000; and 1 span 80 ft. rein.-con. and steel bridge at Oilton, Creek Co., $28,000. J. M. Page, highway engr.

California—Mar. 2, by State Hy. Comn., Sacramento, three 46 ft. and two 21 ft., rein.-con. span bridge, 30 ft., on concrete piers and pile bents over San Juan Creek, Orange Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Ont., Keewatin — C. H. Fullerton, ch. engr., Parliament Bldg., Toronto, concrete substructure for 300 ft. bridge, 20 ft., across arm of Lake of the Woods, here, to Kelly & Kimberley, Keewatin, $14,310; steel superstructure, to Hamilton Bridge Wks. Ltd., Waterfront, Hamilton, $26,740. Engrs. est. $35,000.

BIDS RECEIVED

N. J., Hackensack — State Hy. Dept., Trenton, repairing and reconstructing center timber fender of bridge, 200 ft. long, 40 ft. wide and north end of east timber fender, 92 ft. long, 10 ft. wide, etc. over Hackensack River on Lincoln Highway, State Route 1, Hudson Co., from Stillman, Delahanty & Ferris, 1 Exch. Pl., Jersey City, $41,421. Noted Jan. 22.

Louisiana — State Hy. Comn., Reymond Bldg., Baton Rouge, Interstate Bridge on Federal Aid Project 175, over East Pearl River, between St. Tammany Parish, La., and Hancock Co., Miss., from Vincennes Bridge Co., Vincennes, Ind., $26,098. Noted Jan. 1.

CONTRACTS AWARDED

Alabama—State Hy. Dept., Montgomery, 3 span ¼ mi. concrete and creosoted timber bridge over Alabama River at Reese's Ferry, Montgomery Co., to Virginia Bridge Co., Roanoke, Va., $109,480. Engrs. est. $110,000. Noted Jan. 15.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 24 ft. span concrete, four 160 ft. and one 95 ft. span steel and nineteen 53 ft. span concrete girder bridge on Route 3, Sects. 73-B and C, Randolph Co., to W. H. Shons Co., Freeport, $204,000; three 35 ft. and five 46 ft. span concrete girder and one 24 ft. slab span bridges, Jefferson Co., to H. R. Cawood, Mt. Vernon, $37,691; substructure for one 40 ft. and six 50 ft. concrete girders, one 7 ft. span combined and one 125 ft. steel bridges, Route 33-B, Jasper and Crawford Counties, to V. O. Connor, Newton, $38,748; superstructure for one 7 ft. span combined bridge, one 125 ft. span steel and six 50 ft. span concrete girder bridges, Route 33, Sect. 3-C, Jasper and Crawford Counties, to Vincennes Bridge Co., Vincennes, Ind., $9,280. Noted Dec. 25.

Tex., Mercedes—Gulf Coast Lines, Union Sta., Houston, 1,500 ft. creosoted timber trestle over floodway of Mercedes Flood Prevention Project, near here, to Dodds & Wedegartner, Mercedes, $26,000.

Dams

PROPOSED WORK

Me., Lewiston — Central Maine Power Co., plans dam in Androscoggin River. F. Mason, Lewiston, engr.

Ont., Port Arthur—Hydro-Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans concrete dam across Nipigon River at Virgin Falls. $300,000-$500,000. F. A. Gaby, ch. engr.

CONTRACTS AWARDED

Va., Martinsville—See "Buildings—Industrial."

Railways

PROPOSED WORK

Michigan — Dept. Street Rys., St. Jean and Shoemaker Aves., Detroit, making plans additional yards at Woodward Ave. car barns, in Detroit. $75,000. R. Schram, genl. mgr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Ill., Fairfield—Skillet Fork River Outlet, Union D. D. making preliminary plans draining about 75,956 acres, incl. 30 mi. ditches and laterals, 4,500,000 cu.yd. excav., in Wayne, White and Hamilton Counties. G. C. Harvey, Mount Carmel, engr.

Neb., Dakota City—Omadi D. D. Dakota Co., plans drainage ditches, levees, laterals, etc. $37,650.

Calif., Tracy—Ohm & Raab, engrs., 517 East Market St., Stockton, making plans irrigating 1,055 acres, 7,770 ft. ditch 13 ft. wide on top, 5 ft. on bottom, 2 ft. deep; pumping plant, incl. two horizontal centrifugal pumps, 10 and 18 in. capacity 13.6 sec. ft. and total lift 51 ft. operated by 125 hp. electric motors, and 1,500 ft. 24 in. wood stave pipe line. Owners name withheld.

BIDS DESIRED

N. J., Trenton—Feb. 24, by Bd. Freeholders Mercer Co., W. Fowler, clk., 4,220 ft. French under drain, 3,150 lin.ft. from 6- to 24-in. vitr. drains, 1,080 lin.ft. 30 in. rein.-con. pipe, 1,270 lin.ft. 3 and 4 in. rein.-con. conduit. $45,000. H. F. Harris, Court House, engr.

Wis., Madison — Feb. 27, by Dane Co. D. D. Bd., N. Holman, secy., Court House, dredging and cleaning out approximately 35,000 cu.yd. 6 ditches in Nine Springs D. D. H. P. Hintze, Court House, engr.

Mo., Glasgow—Feb. 25, by W. A. Labus, secy. Porterfield Levee Dist., 11 mi. levees, 120,000 cu.yd. excav. C. E. Jacoby, 700 Interstate Bldg., Kansas City, engr.

BIDS RECEIVED

Calif., San Diego—W. H. Cameron, city purch. agt., Feb. 4, 850,000 cu.yd. dredging and placing fill back of sea wall, from San Francisco Bridge Co., Nevada Bank Bldg., San Francisco at $0.2375 per cu.yd.; 3,470 lin.ft. concrete seawall from Lipscomb & Dutton, Owl Drug Bldg., at $18.90 per ft. Noted Jan. 22.

CONTRACTS AWARDED

Fla., Clearwater — Dredging and filling for causeway across Clearwater Harbor, to Tampa Sand & Shell Co., foot of Harrison St., Tampa, $205,560. Noted Jan. 8.

Neb., Tekamah—Tekamah D.D., 1,000,000 sq.yd. heavy excavation, to Boyce Constr. Co., Omaha, $75,750. Engr. est. $80,000.

Tex., Penitas — Hidalgo Water Impvt. Dist. 4, Edinburg, intake canal near here, 60,000 yds. dirt work, Penitas Main Canal 760,000 yds. dirt, and settling basin levee, near here, 50,000 yds. dirt work, etc., to L. D. Crawford, Mercedes, $100,000.

Ont., Ottawa—Metropolitan Life Insurance Co., excavation for new office building, Wellington St., to A. Garnock, Sparks St. Noted Jan. 8.

Streets and Roads

PROPOSED WORK

Pa., Pittsburgh—Soon takes bids grading, paving and curbing Orpwood St., $25,000; Virginia Ave., $110,000; and Forbes St., $141,000. City, c/o Dept. Pub. Wks., City County Bldg., engrs.

Pa., Pittsburgh—Making plans grading, paving and curbing Bigelow St., $25,000; Craftmont St., $28,000; Eldora Pl. $31,000. City, c/o Dept. of Pub. Wks., City-County Bldg., engr.

Md., Baltimore—Making plans sheet asphalt paving 75,000 sq.yd. footways $135,000, 260 alleys $200,000, in Central Dist. bounded by North and Patterson Park Aves., Monroe and Pratt Sts. $121,000; maintenance and reconstruction of streets in Western Dist. bounded by Edmonson and Green Spring Aves., north and west city lines $148,000, in Northern Dist. bounded by Green Spring, Harford and North Aves., and north city line $200,000, in Eastern Dist. bounded by Harford and Patterson Park Aves., and water front $220,000, in Southern Dist. bounded by Edmonson Ave., Monroe, Pratt and Hanover Sts. around water front to southwestern city line $110,000. B. L. Crozier, City Hall, engr.

W. Va., Morgantown — Monongalia Co. election Mar. 21, $145,000 bonds for roads in Clinton Dist. A. J. Bartell, Morgantown, co. engr. Noed Jan. 15.

Fla., Dunedin—Voted $25,000 bonds, paving Main St. A. J. Grant, pres. city council.

Fla., Ft. Lauderdale—Plans election $90,000 bonds, paving various streets. J. Lawson, city clk.

Fla., Kissimmee—Plans election $500,000 bonds paving various streets. Address City Commissioners.

Fla., South Jacksonville—Election Mar. 4, $149,000 bonds, paving various streets. P. C. Marion, chn. City Council.

Fla., Titusville—Election Mar. 10, $150,000 bonds, paving various streets. Address City Commissioners.

Miss., Natchez—Election in early spring $500,000 bonds, grading, hard-surfacing, etc., various streets. Engineer not selected.

Tenn., Dyersburg—Dyer Co. election Feb. 21, $1,000,000 bonds for roads.

O., Canton — Bd. Control takes bids in spring brick repaving and widening 2nd St. N. E. $40,000. W. E. Sarver, city engr.

O., Cincinnati — Making plans granite curbing, laying cement sidewalks, and repaving 450 ft. Court St., 88 ft., 250 sq.yd. granite block, and 4,400 sq.yd. asphalt, etc. $28,947. F. Krug, City Hall, engr.

O., Cleveland—Cuyahoga Co., takes bids in spring brick paving 2 mi. Miles Rd., $448,000, and 1 mi. Cedar Rd., $205,000. F. Lander, Court House, engr.

Streets and Roads (Continued)

Mich., Detroit—Making plans sheet asphalt paving 6,930 sq.yd. Petoskey Ave. $34,650; 5,650 sq.yd. Chesterfield Ave. $28,-270; 1,190 sq.yd. St. Martin Ave. $5,950; 2,430 sq.yd. Humphrey Ave. $12,140; 1,220 sq.yd. Troy Pl. $6,100; 8,040 sq.yd. Wilshire Dr. $40,230; 2,100 sq.yd. Pressler Ave. $10,550; 2,730 sq.yd. Meldrum Ave. $13,670; 6,950 sq.yd. Picadilly Ave. $34,-780; 4,250 sq.yd. Windchester Ave. $21,290; 1,300 sq.yd. Roslyn Ave. $6,500; 1,950 sq. yd. Wakefield Ave. $9,750; 2,820 sq.yd. Rathbone Ave. $14,110; 2,190 sq.yd. Beniteau Blvd. $11,470. G. Jerome, city engr.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Dec. 17, concrete surfacing 14.08 mi. Route 5, Sects. 28, 29 and 30, Jo Daviess Co. and 3.31 mi. Route 38, Sect. 2, Jersey Co. Noted Dec. 17.

Ill., Marissa—Takes bids in spring grading, 7 in. rein.-con. paving, etc. 10,000 sq.yd. Main St. $38,000. B. C. McCurdy, 17-A North Illinois St., Belleville, engr.

Wis., Janesville—Soon takes bids rein.-con. paving, etc., 5.5 mi. various streets. C. V. Kerch, city engr. Noted Jan. 22.

Wis., Kenosha—Kenosha Co., c/o C. R. Weymouth, Stephenson Bldg., div. engr., soon takes bids concrete surfacing, etc., 9 mi. Silver Lake-Twin Lakes Rd., 18 ft. State Highway Comn., Madison, engrs. Noted Dec. 18.

Wis., Merrill—H. R. Allen, city clk., plans brick paving Grand Ave., Ellis Court and Prospect St.; concrete paving 1st and Polk Sts. To exceed $25,000. Engineer not selected.

Wis., Seymour—City, c/o B. G. Dean, city clk., plans one course concrete paving with integral curb and gutter on Main St. between High St. and south city limits. $35,000. Engineer not selected.

Wis., Wausau — Making plans paving Gray Pl., Grant, 6th, 10th and Division Sts., approximately 15,000 sq.yd. vibrolithic concrete, rein.-con. or brick. B. C. Gowen, City Hall, engr.

Ia., Ackley — Plans paving 31 blocks various streets. $160,000. J. R. Heinz, city clk.

Ia., Cedar Rapids—Soon takes bids grading, paving with various materials, etc. 15 blocks various streets.

Ia., State Center—Plans paving about 10,000 sq.yd. various streets. $35,000. Brown & Cook, Ottumwa, engr.

Minn., Owatonna — Plans paving about 0.5 mi. South Cedar St. $25,000. M. S. Kasper, city clk.

Kan., Kansas City—Wyandotte Co. soon takes bids grading and surfacing 0.5 mi. Bonner Springs Rd., 0.75 mi. Mission Rd. and 47th St., 2.5 mi. Gibbs Rd., 0.5 mi. Kerr Rd., 0.5 mi. Parallel Rd., and 3.5 mi. Walker Rd. O. K. Williams, Kansas City, co. engr.

Kan., Lyndon—Osage Co. soon takes bids grading, bridging, etc. 6.009 mi. Federal Aid Project 264-C, 28 ft. R. Hopper, Lyndon, engr.

Kan., Russell—Russell Co. plans grading, bridging, etc., 10.017 mi. Federal Aid Project Sects. B and C, 28 ft. G. L. Campbell, Salina, engr.

N. D., Dickinson—Plans curbing, guttering and paving 12 blocks various streets. $87,000-$135,000. R. C. Hill, city aud.

N. D., Grand Forks—Plans paving, curbing etc., 0.5 mi. South Washington St. and 4th Ave. $25,000. C. E. Evanson, city aud.

Missouri — State Hy. Dept., Jefferson City, making plans 30 ft. grading 43.119 mi. roads in Worth, Johnson, Macon, Cass and Caldwell Counties; grading 115.764 mi. roads in Daviess, Pemiscot, Shelby, Crawford, Webster, Johnson, Marion, Franklin, Harrison and Gentry Counties; 18 ft. concrete surfacing 97.954 mi. roads in Daviess, Shelby, Crawford, Marion, Franklin, Gentry, Johnson and Webster Counties; 12 ft. gravel surfacing 26.899 mi. roads in Dunklin Co.; 9 ft. concrete surfacing 9.81 mi. road in Harrison Co.; 17 ft. gravel surfacing 7.868 mi. road in Audrain Co.; 9 ft. concrete and 7 ft. gravel surfacing 8 mi. road in Pemiscot Co.; 18 ft. rock asphalt surfacing 4.811 mi. road in Daviess Co.; 18 ft. penetration macadam and 18 ft. asphaltic concrete surfacing 4.811 mi. road in Daviess Co.; 16 ft. gravel surfacing 4 mi. road in Calloway and Polk Counties. B. H. Piepmeier, ch. engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids asphaltic concrete paving and granite curbing 675 sq.yd. Berthold St. $4,770, 1,295 sq.yd. Christy St. $9,900, 1,685 sq.yd. Illinois St. $8,400; concrete paving and granite curbing 2,330 sq.yd. Newport Court $3,450; asphalt on concrete surfacing and granite curbing 1,350 sq.yd. Louisiana St. $9,800, 1,845 sq.yd. San Francisco St. $13,570; Willite on concrete surfacing and concrete curbing 4,215 sq.yd. Lemp St. $21,300. W. W. Horner, city engr.

Ark., Hot Springs—Takes bids in April, grading, hard-surfacing, etc., 25 blocks various streets in Dist. 81. C. Smith, City Hall, engr.

Ark., Little Rock—Takes bids in March grading, paving, etc., about 9,000 sq.yd. various streets in Dists. 406 and 407. $40,-000. F. Pritchett, Reigler Bldg., engr.

Ark., Little Rock—Making preliminary plans grading, hard-surfacing, etc., various streets in Dist. 408. $35,000. G. D. Douglas, Southern Trust Bldg., engr.

Ark., Pine Bluff—Soon takes bids grading and concrete, asphaltic concrete or asphalt on concrete surfacing, etc., 50 blocks various streets. F. R. Allen, City Hall, engr.

Ark., Russellville—Soon takes bids grading, hard-surfacing, etc., various streets in Dist. 4. $150,000. S. G. Davis, Morrilton, engr.

Tex., Albany—Shackelford Co. making plans grading and bridging 12.71 mi. State Highway 1. $90,000. J. E. Pirie, Albany, engr.

Tex., Corsicana — Navarro Co. election soon $6,000,000 bonds of which $2,500,000 will retire old bonds, and remainder for 102 mi. highway improvements, 18 ft. W. W. McClendon, Corsicana, engr.

Tex., Henrietta—Clay Co. soon takes bids grading and bridging 7.14 mi. State Highway 5, Federal Aid Project 448-A, 26 ft. $83,400. D. M. Puckett, Henrietta, co. engr.

Tex., Sweetwater—Nolan Co. takes bid after Feb. 25, grading and bridging 15.31 mi. State Highway 1, Federal Aid Project 444-D. $160,000. J. A. Focht, Sweetwater, co. engr.

Tex., Waco—McLennan Co. plans paving 22,072 sq.yd. North 25th St. from Columbus to Colcord Sts. $69,225. V. G. Koch, city engr.

Tex., Galveston — City Secretary soon takes bids paving approximately 10,000 yds. 21st and 22nd Sts. to Market St. $32,000. C. A. Holt, Jr., Galveston, engr.

Okla., Alva — Making preliminary plans grading and concrete surfacing 13,800 sq.yd. various streets in Dists. 11, 12 and 13. $46,000. F. E. Devlin, Bitting Bldg., Wichita, Kan., engr.

Okla., Newkirk—Kay Co. soon takes bids grading road 6 mi. east of Ponco City, 9.5 mi. Pawhuska-Burbank Rd., and 7 mi. Pershing-Barnsdall Rd. $70,000. Address County Judge.

Okla., Oklahoma City—Plans grading and sheet asphalt surfacing 5,400 sq.yd. 16th, Geary and McKinley Sts. $32,000. B. M. Hart, City Hall, engr.

Okla., Shidler—Defeated $53,000 bonds, grading and surfacing 3 blocks Cosden Ave., 76 ft. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Jan. 15.

Okla., Woodward — Making preliminary plans paving 15 blocks various streets, 50-76 ft. $100,000. Engineer not selected.

Colo., Denver — Making plans asphalt paving 132 blocks in Capitol Hill Paving Dists. 17 to 27 (inclusive), $647,168; concrete paving 24 blocks Alley Paving Dists. 120 and 121, $61,492; concrete curbing, guttering and street surfacing South Denver Impvt. Dist. 18, $119,014, Montclair Impvt. Dist. 2, $155,236. A. K. Vickery, City Hall, engr.

California—Alameda Co. (Oakland) making plans widening 2.5 mi. East 14th St. between city of San Leandro and Laurel St. To exceed $25,000. G. A. Posey, Oakland, co. surv.

California—State Hy. Dept., Sacramento, plans highway between Santa Barbara and Summerland city limits, via Montecito and Ortega Hill, Santa Barbara Co. $150,000. R. M. Morton, Sacramento, highway engr.

Calif., Burbank—Plans paving, etc., portions of Naomi, Florence, Niagara and Fairview Aves. To exceed $25,000. A. M. Rose, city engr.

Calif., Long Beach—Plans widening Pine Ave., incl. construction of tunnel. $75,000. R. D. Van Alstine, city engr.

Calif., Los Angeles — Los Angeles Co. made plans improving 1.94 mi. Hawthorne Ave. and Los Angeles-Redondo Blvd., 13,-783 cu.yd. excav., 25,172 sq.yd. shape road bed, 24,033 sq.yd. 2 in. Willite on 3 in. asphaltic concrete, 25,172 sq.yd. 5 in. disintegrated granite sub-base, 20,510 ft. shape shoulders, etc. To exceed $50,000. G. Jones, Hall of Records Bldg., engr.

Calif., Mayfield—Making plans paving 3 mi. various streets. C. Moser, 561 Homer Ave., Palo Alto, engr.

Calif., Merced—Merced Co. plans grading and 2 in. oil macadam on 4 in. waterbound macadam paving roads in Rd. Impvt. Dist. 7. To exceed $25,000. W. E. Bedesen, Merced, co. surv.

Calif., Oakland—Made plans improving Golf Links road, 18,071 cu.yd. excav., 596 ft. 10- to 21-in., and 60 ft. 8 x 7 ft. 9 in. concrete culvert, etc. W. W. Harmon, city engr.

Calif., Redwood City — San Mateo Co. making plans repairing and paving 7 mi. road between Pescadero and San Gregorio. G. A. Kneese, Redwood City, engr.

Calif., San Bernardino—Plans paving A St. between 3rd and 38th Sts. $175,000. C. E. Johnson, city engr.

Calif., San Diego—Common Council plans improving National Ave. between 16th and 26th Sts., 252,269 sq.ft. 5 in. concrete paving, etc.; G St. between 16th and 25th Sts., 131,968 sq.ft. 1.5 in. asphaltic concrete on 2.5 in. bituminous, 255 ft. concrete curb, etc.; and Utah St. between University and Adams Aves., 273,948 sq.ft. 1.5 in. asphaltic concrete on 5 in. concrete, etc. F. A. Rhodes, city engr.

Calif., San Francisco—Plans paving Main St. between Howard and Embarcadero Sts., probably asphaltic concrete. To exceed $25,000. M. M. O'Shaughnessy, city engr.

Calif., Santa Barbara — Santa Barbara Co. made plans constructing 9.5 mi. Lompoc Harris Station-San Miguelito Rd., 35,-000 cu.yd. excav., 905,000 sq.ft. 5 in. asphaltic concrete paving. To exceed $200,-000. O. H. O'Neill, Santa Barbara, co. surv. Noted Jan. 15.

Calif., Santa Cruz—Made plans improving Ocean St. between Water St. and Soquel Ave., 91,116 sq.ft. each grading and 5 in. concrete paving, etc., and Ocean St. between Bway. and Cliff Dr., 77,271 sq.ft. each grading and 5 in. concrete paving, etc. H. E. Godegast, city engr.

Calif., Turlock—Making plans improving 3rd, 4th, 5th and C Sts., 190,000 sq.ft. grading, 155,000 sq.ft. 1.5 in. Warrenite bituminous on 3 in. asphaltic concrete, 35,-000 sq.ft. concrete gutter, etc. H. C. Hall, city engr.

Ont., Hamilton — Barton Twp. Council plans expending $35,000 on highway improvements. A. J. Shaw, Court House, engr.

Ont., Lucknow—Making plans and takes bids about April 15, concrete paving Main St. $40,000. A. Stephenson, County Bldg., Walkerton, engr.

Ont., Paisley—Making plans and takes bids about April 15, concrete paving Queen St. $35,000. A. Stephenson, County Bldg., Walkerton, engr.

Ont., Stratford—Perth Co. Council making plans concrete paving 3½ mi. St. Marys Rd., and resurfacing and improving other highways. $110,000. J. Roger, Mitchell, engr.

Ont., Toronto—Toronto and York Good Rds. Comn. plans to expend $150,000 for construction of 10 mi. macadam and tarvia roads. E. A. James, 57 Adelaide St. E., engr.

Ont., Toronto — Plans asphalt paving 6,500 sq.yd. Glenrose Ave. $12,371, Inglewood Dr. $5,708, Raglaw Ave. $4,259, Rosedale Heights Dr. $3,163. R. C. Harris, city engr.

BIDS DESIRED

Mass., Boston—Feb. 24, by Dept. Pub. Wks., bituminous repairing on any street not under guarantee when ordered by Commissioner from Mar. 1 to Dec. 31. $50,000. J. A. Rourke, comr.

N. Y., Brooklyn — Feb. 25, by J. A. Guider, boro pres., Boro Hall, repaving Empire Blvd., Hamilton and Marcy Aves.

N. Y., Long Island City — Feb. 25, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., sewers in 150th Ave. from pumping station at 134th St. to Judith St.

N. Y., St. George—Feb. 25, by J. A. Lynch, pres. Richmond Boro., Boro. Hall, grading, etc., Elm St.

New Jersey—Mar. 9, by State Hy. Dept., Trenton, grading, sheet asphalt and granite block paving Route 11, Sect. 10, Essex Co.; rein.-con. paving, etc., Route 7, Sect. 4, Monmouth Co., A. L. Grover, secy.; adv. E. N.-R. Feb. 19.

N. J., Freehold—Mar. 4, by Bd. Freeholders Monmouth Co., Court House, reconstructing Matawan-Freneau Rd. 65, Matawan Twp. G. K. Allen, Broad St., Red Bank, engr.; adv. E. N.-R. Feb. 19.

Pa., Ebensburg — Mar. 4, by Comrs. Cambria Co. grading and one course rein.-con. surfacing 11,468 ft. road in Summer-

Streets and Roads (Continued)

hill Twp. from Beaverdale to Lovett, 16 ft. $60,000. L. R. Owen, Ebensburg, co. engr. Noted Jan. 8.

Pa., Phila.—See "Waterworks."

W. Va., Lewisburg—Mar. 3, by Greenbrier Co. Court, light grading and macadam surfacing 4 mi. Midland Trail-Hughart Rd., 6,700 cu.yd. excav., 6 mi. Hughart-Williamsburg Rd., 10,000 cu.yd. excav., 3 mi. Williamsburg-Trout Rd., 6,000 cu.yd. excav. and 4 mi. Falling Spring-Trout Rd., 8,000 cu.yd. excav., also seven 10 ft. span concrete bridges with 18 ft. roadway and 6 ft. clearing. Bids to be taken as a whole or on any one project. H. L. Handley, co. engr.

South Carolina—Feb. 25, at office J. M. Martin, engr. Florence Co., Florence, grading and plain concrete, sheet asphaalt or asphaltic concrete surfacing 7.2 mi. State Route 41, State Project S-542, for Florence and Darlington Counties.

S. C., Greenville—Mar. 3, at office Supervisor Greenville Co., Court House, grading and plain concrete, asphaltic concrete or sheet asphalt surfacing 4.7 mi. State Route 2, State Project S-565. E. D. Sloan, Court House, engr.

Georgia—Feb. 20, by State Hy. Comn., East Point, gravel surfacing 20,305 cu.yd. Jessup-Brunswick between Grangeville and Everett Federal Aid Project 352; also approach fills to bridge over Ogeechee River, on Federal Aid Project 207, Bryan and Effingham Counties, 8,245 cu.yd. common and 34,818 cu.yd. borrow excav., 11,989 sq.yd. grassing shoulders and slopes, 11,543 cu.yd. gravel surfacing, etc. W. L. Neel, East Point, engr.

Fla., Ocala—Mar. 3, by City Council, paving 200,000 sq.yd. various streets. E. Drake, city mgr.

Ala., Birmingham — Apr. 1, by City Clerk, asphalt surfacing 14 blocks 18th, 19th and 28th Sts., 40 ft. A. J. Hawkins, City Hall, engr.

Ala., Tuscaloosa—Apr. 1, by City Clerk, concrete and asphalt surfacing 15 blocks various streets in business section, 30 ft. $150,000. W. H. Nicol, city engr. Noted Dec. 11.

Louisiana—Feb. 24, by State Hy. Dept., Reymond Bldg., Baton Rouge, 3.63 mi. gravel surfacing and shoulders, Frenier-Ory Highway, State Aid Project 15, St. John the Baptist Parish.

O., Cleveland—Feb. 25, by City, grading, concrete curbing, guttering and concrete paving 6,530 sq.yd. Summit Rd., $50,645; grading 23,700 cu.yd. Settlement Rd. 2, and Libby Rd. 2, $26,750. F. Lander, Court House, engr.

O., Cleveland Heights (Warrensville P. O.)—Feb. 25, by City, brick, asphalt, concrete or sheet asphalt paving 15 blocks various streets. $200,000. F. A. Pease Eng. Co., Marshall Bldg., engrs.

Ill., Lewiston — Feb. 21, by City Clerk, improving various streets, 4,650 sq.yd. concrete surfacing, 4,775 lin.ft. expansion joints, 474 ft. 10 in. storm sewers, 225 lin.ft. 8 in. pipe, etc. F. M. Connolly, 432-33 Peoples Trust & Savings Bank Bldg., Galesburg, consult, engrs.

Wis., Oshkosh—Feb. 24, by Bd. Pub. Wks., improving various streets, 20,761 sq. yd. concrete, vibrolithic bituminous concrete or bituminous macadam paving 12,530 ft. concrete curb and gutter, 6,772 cu.yd. grading. G. H. Randall, City Hall, city engr.

Minn., Duluth — Feb. 25, by W. H. Tischer, city comr., grading, concrete curbing, sidewalks and concrete paving 55,920 sq.yd. Congdon Blvd. J. Wilson, city engr.

Minn., Osakis—Feb. 23, by city, improving various streets, 10,300 sq.yd. paving, 3,248 lin.ft. concrete curbing, 1,080 lin.ft. storm sewer, 1,500 lin.ft. water connections. $40,000. J. W. Shaffer & Co., 915 New York Life Bldg., Minneapolis, engrs.

Kan., Nortonville — Feb. 23, by E. T. Lehman, city clk., grading and 14,382 sq.yd. concrete surfacing Locust, Railroad, Main and Norton Sts. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs. Noted Nov. 13.

Kan., Wichita—Mar. 2, by E. S. Worrell, city clk., concrete surfacing 1,090 sq.yd. Wabash St., 1,817 sq.yd. Pine St., 3,572 sq.yd. Mathewson St., 2,401 sq.yd. Irving St., 2,120 sq.yd. Jackson St., 1,937 sq.yd. Lewis St. and 5,226 sq.yd. McCormick St.; sheet asphalt surfacing 817 sq.yd. Indianapolis St. and 3,825 sq.yd. Holyoke St.; asphaltic concrete surfacing 1,938 sq.yd. Harrison St., 6,833 sq.yd. Washington St., and 975 sq.yd. Briggs St. $250,000. P. L. Brockaway, City Bldg., engr. Noted Dec. 11.

Missouri—Feb. 28, by State Hy. Comn., Jefferson City, 30 ft. grading 18.91 mi. roads in Worth, Caldwell, Shelby, Johnson and Warrensburg Counties; grading 96.856 mi. roads in Johnson, Webster, Shelby, Franklin, Pemiscot, Gentry, Crawford and Marion Counties; 18 ft. concrete surfacing 91.089 mi. roads in Johnson, Webster, Shelby, Franklin, Daviess, Crawford and Marion Counties; 12 ft. gravel surfacing 4.575 mi. road in Dunklin Co.; 18 ft. gravel surfacing 8.949 road in Cass Co.; 9 ft. concrete and 7 ft. gravel surfacing 5.68 mi. road in Pemiscot Co.; 18 ft. asphaltic concrete surfacing 4.898 mi. road in Daviess Co.; 9 ft. and 18 ft. concrete surfacing 4.898 mi. road in Gentry Co.; 18 ft. penetration macadam surfacing 4.811 mi. road in Daviess Co.; 16 ft. gravel surfacing 1.135 mi. road in Polk Co.; 18 ft. rock asphalt surfacing 4.811 mi. road in Daviess Co. B. H. Piepmeier, ch. engr.

Mo., St. Louis — Feb. 24, by Keck Surveying Co., engrs., 721½ Chestnut St., 2,018 cu.yd. grading, 2,455 sq.yd. 7 in. rein.-con. paving, 1,185 lin.ft. granite curbing, etc. in 660 ft. Winnebago St., for J. Weisert.

Mo., St. Louis — Mar. 10, by Bd. Pub. Serv., 208 City Hall, grading and concrete paving 28 alley projects in various parts of city. $103,780. W. W. Horner, city engr.

Mo., St. Louis — Keck Surveying Co., engrs., 721½ Chestnut St., taking bids 23,000 sq.yd. 8 in. concrete slab paving, 6,000 ft. metal joints, 760 ft. asphalt expansion joints, 5,000 ft. macadam in Russell Park subdivision, for Security Garantor Realty Co., International Life Bldg.

Tex., Eagle Pass—Maverick Co. taking bids grading and bridging 12.09 mi. State Highway 85, State Aid Project 569-A. $55,000. C. E. Wright, Eagle Pass, co. engr.

Oklahoma—Feb. 24, by State Hy. Dept., Oklahoma City, concrete surfacing 92,845 sq.yd. Federal Aid Project 171, near Ramona, Washington Co., $160,000; grading and graveling 9,342 cu.yd. State Aid Project 106, near Nowata, Nowata Co., $40,000; and grading, etc., 129,700 cu.yd. Guthrie-Edmund Rd., Logan Co., $60,000. J. M. Page, highway engr.

Oklahoma—Feb. 24, by State Hy. Dept., Oklahoma City, F. A. P. means Federal Aid Project and S. A. P. means State Aid Project, grading and gravel surfacing 4.79 mi. holdenville-Seminole Co. line Rd., 30 ft., F. A. P. 174, Hughes Co., $30,000; vertical fibre brick surfacing, etc. 0.5 mi. Okmulgee Rd., 18 ft., F. A. P. 171 Okmulgee Co., $30,000; concrete surfacing 11.288 mi. Oilton-Keystone Rd., 18 ft., Creek Co. $145,000; 6.77 mi. Newkirk Rd., 18 ft., F. A. P. 167-A. Kay Co. $160,000; 5.15 mi. Ramona Rd., 18 ft., F. A. P. 15-C, Washington Co., $140,000; grading and concrete surfacing 5.16 mi. Oilton-Keystone Rd., 18 ft., F. A. P. 152-A, Osage Co. $60,000; 6.28 mi. road, S. A. P. 142, Kay Co. $25,000; 5.22 mi. Henryetta Rd. 18 ft., F. A. P. 168-A and B, Okmulgee Co. $150,000; grading 5.77 mi. Ponca City-Pawhuska Rd., 30 ft., F. A. P. 152-A, Osage Co. $60,000; 6.28 mi. Ponca City-Pawhuska Rd., 30 ft., F. A. P. 152-F, Osage Co. $65,000; 7.7 mi. Pursching-Barnsdall Rd., 30 ft., F. A. P. 153-A and B, Osage Co. $75,000; 5.51 mi. Cleveland-Keystone Rd., 30 ft., F. A. P. 85-B, Pawnee Co. $55,000; 7.01 mi. Oologah-Verdrigris River Rd., 30 ft., S. A. P. 2-E, Rogers Co. $45,000. J. M. Page, highway engr.

Okla., Clinton—Mar. 3, by City Clerk, grading, Willite on 4 in. bituminous surfacing, etc., 13th St. $39,947.

Okla., Clinton—Mar. 10, by City Clerk, grading, Willite on 4 in. bituminous surfacing, etc., Modell Ave. $34,826. Noted Jan. 29.

Okla., Oklahoma City—Feb. 24, by W. A. Jackson, clk. Oklahoma Co., grading and vertical fibre brick surfacing 53,600 sq.yd. Edmond-Guthrie Rd. between Edmond and Ligan Co., line, $160,000; grading and concrete surfacing 69,750 sq.yd. East 23rd St. road between Choctaw and Lincoln Co. line, $170,000. R. S. James, Court House, engr.

Okla., Wilburton — Mar. 2, by T. A. Brown, city clk., grading and concrete surfacing 10,450 sq.yd. Main St. $39,400. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

California—Mar. 2, by State Hy. Comn., Sacramento, widening 8.3 mi. highway between Woodland Wye and Woodland, and 4.5 mi. highway between Putah Creek and Davis, Yolo Co., concrete and crushed gravel or stone shoulders. R. M. Morton, Forum Bldg., Sacramento, highway engr.

CONDUIT—BROOKLYN, N. Y.

Following are lowest three bids opened Feb. 3 by Bd. Water Supply, Municipal Bldg., New York, for constructing Sect. 2 of Williamsburg Condult of Catskill Aqueduct, Contr. No. 218, (A) Peter F. Connolly Co., 209 Pape Bldg., Stapleton, S. I.; (B) Arthur A. Johnson Corp., 3rd St. and West Ave., Long Island City; (C) Booth & Flinn, Ltd., 17 Battery Pl., New York. The unit bids are as follows:

	A	B	C
38,000 cu.yd. earth excavation and refilling not included in item 2	$3.00	$6.44	$7.00
36,000 cu.yd. earth excavation and refilling in shafts of tunnels, under tracks and sewers and in close-sheeted trench	3.00	6.44	9.00
4,800 cu.yd. rock excavation	4.00	1.00	5.00
2,200 cu.yd. excavation of shafts in rock	25.00	30.45	11.00
1,850 cu.yd. excavation of tunnels in rock	20.00	27.45	13.00
500 M. ft. B.M. timber and lumber	50.00	40.00	50.00
1,000 lin.ft. timber piles	1.00	1.50	1.25
Underpinning buildings (lump sum)	15,000.00	14,000.00	19,200.00
10 M. ft. B.M. temporary timbering in shafts and tunnels	75.00	75.00	150.00
Restoring sewer outfall (lump sum)	5,000.00	400.00	2,000.00
11,360 lin.ft. 72-in. steel pipes, ½-in. plate, with bitumastic coating inside and outside	45.10	35.00	32.50
3,000 lin.ft. 72-in. steel pipes, ½-in. plate, to be covered with concrete masonry	45.10	35.00	37.50
140 ton cast-iron pipes, straight hub-and-spiget	100.00	110.00	100.00
100 ton cast-iron hub-and-spigot pipe specials	200.00	240.00	200.00
30 ton cast-iron flanged pipes and specials	250.00	240.00	250.00
70 ton cast-iron valve-boxes, manhole heads and covers	150.00	120.00	100.00
63,000 lb. steel castings	.30	.30	.30
300,000 lb. caring for and setting metal-work furnished by the city	.02	.03	.03
1 48 x 36 x 72-in. Venturi meter	30,000.00	13,500.00	12,000.00
6 20-in. pressure-regulating valves	5,000.00	2,000.00	1,600.00
1 24-in. pressure-regulating valve	6,000.00	2,500.00	2,000.00
125,000 lb. structural and reinforcing steel	.10	.09	.10
500,000 lb. steel sheet piling	.06	.04	.06
25,000 lb. miscellaneous cast iron, wrought iron and steel	.20	.14	.25
440 lin.ft. forms for outer lining of shafts	5.00	10.00	10.00
18,500 bbl. portland cement	2.50	3.25	2.60
5,500 cu.yd. concrete and brick masonry	20.00	19.00	15.00
3,000 cu.yd. concrete masonry under pavements and curbs	8.00	9.00	10.00
2,000 cu.yd. concrete masonry in shafts	15.00	12.00	10.00
1,400 cu.yd. concrete masonry in tunnels	15.00	15.00	20.00
40,000 sq.ft. mortar lining	.33	.50	.40
100 cu.yd. mixing and placing grout	15.00	30.00	25.00
475 replacing water services, 2-in. and smaller	10.00	10.00	5.00
650 cu.yd. crushed stone and gravel for drains and ballast	2.90	5.00	3.50
9,000 lin.ft. vitrified pipes, 3-in. to 12-in. in diameter	1.00	1.20	1.00
3,000 lin.ft. vitrified pipes, 15 to 24 in. in diameter	3.00	4.00	2.00
400 lin.ft. cement pipes, 30 to 36 in. in diameter	7.00	9.75	15.00
5,500 sq.yd. temporary granite block pavement	2.00	.75	1.00
1,000 sq.yd. temporary macadam pavement	1.50	1.80	1.50
10,000 sq.yd. temporary cinder pavement	.75	.40	.50
6,000 sq.yd. temporary sidewalk surfacing	.90	.40	.50
11,000 sq.yd. asphalt pavement	2.00	2.00	3.00
600 sq.yd. wood block pavement	4.00	4.25	3.50
5,400 sq.yd. granite block pavement	5.00	2.00	2.50
4,500 sq.yd. flag sidewalks and cross-walks	2.50	1.25	2.50
3,500 sq.yd. cement concrete sidewalks	3.00	3.60	3.00
1,500 lin.ft. curb	2.00	.65	2.00
Engineer's office (lump sum)	2,000.00	4,000.00	5,000.00
Extended totals	$1,597,121	$1,653,633	$1,692,150

Streets and Roads (Continued)

California—Mar. 9, by State Hy. Comn., Sacramento, concrete paving 5.3 mi. and widening with concrete shoulders 1.1 mi. road between Merced River and Buhach, Merced Co. R. M. Morton, highway engr.

Calif., Colusa—Feb. 24, by T. D. Cain, clk., Colusa Co., improving road between Colusa Rd. and Butte Creek school, Rd. 60, 10,770 cu.yd. unclassified roadway embankment. J. M. Felkner, Colusa, co. engr.

Calif., San Anselmo—Town Trustees taking bids improving streets in Morningside Court, 9,200 cu.yd. grading, excav., 88,740 sq.ft. grading surface and 5 in. concrete paving, etc. To exceed $25,000. J. J. Jessup, city engr.

Calif., Vallejo—City Council taking bids 22 mi. 22 or 24 in. pipe line, under following schedules **(1)** furnish pipe in place, trench and backfill **(2)** furnish and lay **(3)** furnish pipe **(4)** excavate and backfill only **(5)** furnish four 22 or 24 in. and large quantity of smaller gate valves also blow-off valves **(6)** furnish pipe fittings, gaskets and castings **(7)** furnish 3 Venturi meters, two 22 in. or 24 in. and one 14 in. **(8)** furnish quantity ordinary meters. A. Kempkey, Hobart Bldg., San Francisco, engr. Noted Jan. 22.

BIDS RECEIVED

N. Y., New York—J. Miller, pres. Manhattan Boro., Feb. 11, curbing and flagging Chittenden Ave., from M. Del Balso, 660 East 221st St. $38,978; asphalt repaving Amsterdam Ave., from Gaffney Constr. Co., 450 East 91st St., $82,926; widening and granite block repaving 14th St., from C. Helbock, 633 Wales Ave., $100,579; granite block repaving 34th St., from Poirier Contg. Co., 1476 Bway., $68,057. Noted Feb. 12.

Pennsylvania—State Dept. Hys., Harrisburg, Feb. 7, **(R. means Route and A. Application)**, rein.-con. surfacing R. 27, Centre Co., from Reitz Bros., 253 Walnut St., Sunbury, $121,659; R. 92, Clarion Co., from Connell, Laub & Bracht, 51 Woodcrest Ave., Dayton, O., $325,818; R. 115, Washington Co., from Hardy & Rankin Co., 40 Murdock St., Cannonsburg, $85,040; R. 14, Susquehanna Co., from D. Schoentag, Inc., Saugerties, N. Y., $516,775; R. 211, A. 2899 and 3223, McKean Co., from J. F. Morgan Co., Olean, N. Y., stone $239,643, gravel $234,-271; R. 164, Monroe Co., from R. L. Bonham Co., Bridgeton, N. J., $505,852; R. 62, Sect. A, Clearfield Co., from Averyt & Bailey, Philipsburg, $339,990; R. 95, Warren and McKean Counties, from J. C. Devine Co., Alliance, O., $451,937; R. 63, Indiana Co., from James & Nicholson Co., Inc., Johnstown Trust Bldg., Johnstown, $401,746; R. 184, Luzerne Co., from D. W. Davis & Son, 19 Union St., Kingston, $178,059; R. 112, Fayette Co., from Donora Constr. Co., Donora, $121,367. Noted Jan. 22.

Pennsylvania—State Dept. of Hys., Harrisburg, Feb. 6, **(R. means Route and A. Application)**, R. 47, Bedford Co., from C. Winters Constr. Co., Butler, $291,313; A. 1041, Indiana Co., from Rood Constr. Co., Lyric Theatre Bldg., Butler, $102,542; R. 88, Warren Co., from H. E. Bunce, 125 Fulton St., Olean, N. Y., $383,804; R. 100, A. 3236, McKean Co., from D. L. Dennis, Smethport, $82,851; R. 164, Carbon Co., from McInerney & McNeal, Inc., 703 Northampton Natl. Bank Bldg., Easton, $190,772; R. 107, Centre Co., from Miller Constr. Co., Spirit Bldg., Punxsutawney, $841,599; R. 85, A. 3066-3067, Erie Co., from C. H. Frye Constr. Co., 609 West 19th St., Erie, $115,982; R. 245, Blair and Centre Counties; from J. M. Hutchison, Altoona, $410,826; R. 199, Schuylkill Co., from W. B. Sheidy, Berne and Hobart Sts., Wyomissing, $539,457; R. 161, Northumberland Co., from W. M. Moser, 121 North Oak St., Mt. Carmel, $77,705; R. 181, Westmoreland Co., from Frazier & Mansfield, 341 6th St., McKeesport, $166,358. Noted Jan. 22.

North Carolina — State Hy. Comn., Raleigh, Jan. 27, grading, and concrete or asphaltic paving 11.14 mi. State Project 642, Iredell Co., from Stearns Bros., Inc., Statesville, $449,348; 13.777 mi. State Project 284, Wayne Co., from Noll Constr. Co., Charlotte, $416,629. Noted Jan. 22.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, gravel surfacing 7.3 mi. State Project 411 B, Minden-Spring Hill Highway, Webster Parish, from N. M. George Constg. Co., Dubach, $40,634, Ruston-Farmerville Highway, Lincoln Parish, from Alexandria Constr. Co., Alexandria, $20,846; 3 culverts on Webster Parish from W. A. Johnson & Co., Bunkie, $12,338. Noted Jan. 8.

O., Cincinnati—Hamilton Co., Feb. 13, grading and rein.-con. paving 19,420 sq.yd. Wesselman Rd., from F. Moore, Newport, Ky., $98,922. Engrs. est. $104,674. Noted Feb. 5.

Michigan — State Hy. Dept. at office Comrs. Huron Co., Bad Axe, Feb. 4, graveling 7 mi. Assessment Dist. Rd. 189, from H. Graham, Bad Axe, $52,909.

Wis., La Crosse—Bd. Pub. Wks., Feb. 12, paving various streets, from A. Larsen & Co., 418 Barstow St., Eau Claire, concrete $100,700; from Andrew Asphalt Paving Co., Hamilton, O., asphaltic concrete $102,300; from T. E. Wooley, 148 West Ave., brick $120,000. Noted Feb. 5.

Tex., Baird—Callahan Co., grading and bridging, 8.39 mi. State Highway 1, Federal Aid Project 52-E, 26 ft., from Jordan Constr. Co., Plainview, $27,147. Engrs. est. $36,500. Noted Jan. 22.

Tex., Jacksboro—Jack Co., grading and bridging, etc. 12.8 mi. State Highway 25, Federal Aid Project 568. 26 ft., from Trimble & Graham, Denton, $67,171. Engrs. est. $55,000. Noted Jan. 22.

Okla., Pauls Valley—Grading and graveling 14,500 sq.yd. Cherry and Pecan Sts., from G. M. Stone, Box 291, El Reno, $27,-083. Engrs. est. $27,410. Noted Jan. 29.

Calif., Los Angeles—From Griffith Co., Railway Bldg., improving Ave. 54, between Work Blvd. and Pasadena Ave., grading $6,000, 126,830 sq.ft. asphaltic concrete paving at 0.217 per sq.ft., 54,654 sq.ft. 6 in. concrete paving $0.20, etc., total $56,658.

Calif., Oakland—From Heafy, Moore, McNair, 2030 High St., improving 81st Ave. between East 14th and Atherton Sts., 136,-133 sq.ft. grading at $0.029 per sq.ft., 6,369 ft. concrete curb $0.68, 12,285 ft. concrete gutter $0.25, 107,944 sq.ft. bituminous concrete $0.19, etc.

Calif., Venice—Improving Leona Blvd., from Fry Bros. Constr. Co., 2905 East 3rd St., Long Beach, 388,000 sq.ft. 2 in. sheet asphalt paving at $0.25 per sq.ft., 388,000 sq.ft. 7 in. concrete base $0.223, 6,000 lin. ft. heavy curb $0.73 and $0.75 16,000 sq.ft. sidewalks $0.18, etc., total $139,006. Engrs. est. $135,422. Noted Feb. 5.

CONTRACTS AWARDED

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, asphalt repaving East 5th St., to M. J. O'Hara, 557 3rd St., $48,-587, Sumner and Wilson Aves., to Highway Impvt. & Repair Co., 50 Church St., New York City, $166,388 and $35,015 respectively; asphalt resurfacing by heater method Adelphia St. and Foster Ave., to Cranford Co., 52 9th St., $82,188 and $84,556 respectively. Noted Feb. 12.

Pa., Pittsburgh — Grading, paving and curbing, etc., Mt. Washington Roadway from Merrimac St. to point 600 ft. from Liberty Tunnels, to Vang Constr. Co., Bessemer Bldg., $351,750. Engrs. est. $350,000.

N. C., Windsor—J. M. Gatlin, mayor, improving various streets, 10,000 sq.yd. concrete or asphaltic paving and 7,000 sq.yd. concrete sidewalks, 1,200 ft. combined curb and gutter, storm drainage, etc., to McGuire Constr. Co., Bankers Trust Bldg. Norfolk, Va. Noted Dec. 4.

S. C., Newberry—Asphalt paving 60,000-80,000 sq.yd. various streets, to Southern Paving Constr. Co., Vol. Life Bldg., Chattanooga, Tenn., approximately $300,000.

S. C., Saluda—Saluda Co., grading, etc., 4.945 mi. State Route 19, to N. M. Dorn, Augusta, Ga., $40,389. Noted Feb. 12.

Fla., Tampa—W. G. Williams, chn. Bd. Comrs., Hillsborough Co., to Cone Bros, Tampa, 2½ in. asphalt block paving 38,392 sq.yd. Cypress St. $96,500, 16,226 sq.yd. Horatio, Maryland and Sleepy Hollow Sts. $41,550, 29,117 sq.yd. Gray St. $73,000.

Fla., Tampa — City Comn., improving portion of West Lafayette and Madison Sts., 2½ in. asphalt blocks on 6 in. base and 2 in sand cushion, remove and relay 7,275 sq.yd. and reset 4,675 ft. curbing, to Cone Bros., Tampa, $26,479. Noted Nov. 13.

Alabama—State Hy. Dept., Montgomery, hard-surfacing approximately 2 mi. Newbern-Wedgeworth-Greensboro Rd., 18 ft., to Mitchell Bros., Amer. Trust Bldg., Birmingham, $44,713. Engrs. est. $45,000. Noted Nov. 27.

La., Gretna — Police Jury Jefferson Parish, sheet asphalt paving 3.7 mi. road through Metairie Ridge and Shrewsbury sections of Jefferson Parish, to E. J. Deas & Co., St. Charles Hotel, New Orleans, $104,000. Noted Dec. 25.

La., New Orleans—Subsurfacing portions of Alvar, Erato. Elysian Fields, Galvez, Gaiennie, Melpomene, Robertson and St. Joseph Aves., to E. J. Deas Co., Shreveport, Erato, Elysian Fields, Fontainbleau, Gravier, LaSalle, Liberty, Perdido Aves., and Rampart-St. Claude cut-off, to J. O. Chisolm & Co., 4126 Banks St., Constance and Layola Aves., to Mitchell & Sons, New Orleans, Oak Ave. to J. D. O'Reilly, New Orleans, St. Joseph Ave., to Williams Eng. Co., New Orleans, total $559,041; paving 20,600 sq.yd. vitr. brick in Alvar, Galvez and Robertson N. Aves., 19,960 sq.yd. bitulithic in constance, Elysian Fields and Melpomene Aves., 8,500 sq.yd. Uvalde on Fontainbleau Dr. and Layola Ave., 2,220 sq.yd. Warrenite on LaSalle Ave., to E. J. Deas & Co., Shreveport, 11,780 sq.yd. vitr. brick on Erato and Gaiennie, Aves., to H. Reynolds, Maison Blanche Bldg., 35,600 sq.yd. Cascemco paving on Gravier, Liberty, Oak and Perdido Aves., and Rampart-St. Claude cut-off, to Craven & Lang Co., Carondelet Bldg., 3,190 sq.yd. Uvalde paving on Howard Ave., to Southern Uvalde Co., New Orleans, 1,740 sq.yd. granite block paving on St. Joseph Ave., to Globe Constr. Co., La Belle St., total $534,140. The above contracts recently awarded are for first half of paving program for 1924, bids were opened Sept. 16.

Tenn., Pulaski—City will surface various city streets, rock asphalt on macadam, by day labor, under supervision of B. H. Klyce & Co., engrs., 4th and 1st Natl. Bank Bldg., Nashville. $100,000. Noted Feb. 12.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete surfacing 18.47 mi. Route 23, Sects. 23, 25 and 26, McHenry and De Kalb Counties, to Harrison Eng. Co., Mutual Bldg., Kansas City, Mo., $372,325, 31.12 mi. Route 2, Sects. 25, 37, 38 and 39, Winnebago and Lee Counties, and Route 19, Sect. 27-W, McHenry Co., to McCarthy Impvt. Co., 802 Kahl Bldg., Davenport, Ia., $640,320 and $8,973 respectively, 12.53 mi. Route 32, Sects. 4 and 5, Moultrie Co., to O. McMahon, Rochester, Ind., $247,500, 11.79 mi. Route 13, Sects. 25 and 27, St. Clair Co., to Mautz & Oren, Inc., Effingham, $262,800; grading 71,485 cu.yd. Route 2, Sect. 77-A, Winnebago Co., to S. J. Groves & Sons, Montreal St. and Cleveland Ave., Minneapolis, Minn., $39,534; two 30 ft. and one 50 ft. span steel substructure and one 16 ft. slab bridge, to Zimmerly Bridge Co., Paris, $16,-972, two 30 ft. and one 50 ft. span, steel superstructure, to Illinois Steel Bridge Co., Jackson, $6,153. Noted Nov. 27 and Dec. 25.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to Trompeter & Sons, Peru, concrete surfacing 8.81 mi. Route 7, Sects. 14 R-4 and R-5, Bureau Co., $168,500, to Smith Bros., Inc., Amer. Exch. Bldg., Dallas, Tex., 11.3 mi. Route 32, Sects. 1 and 2, Moultrie and Shelby Counties, $172,000, 7.6 mi. Route 16, Sect. 21, Montgomery Co., $140,676, and 16.76 mi. Route 25, Sects. 8, 9 and 10, Wayne and Clay Counties, $343,768, to Schuster Constr. Co., Denmark, Wis., 12.64 mi. Route 5, Sects. 24, 25 and 26, Jo Daviess Co., $257,464, to W. C. Johnson, Belleville, 6.96 mi. Route 16, Sect. 22, Montgomery and McCoupin Counties, $146,306, to Cameron, Joyce & Co., Keokuk, Ia., 16.38 mi. Route 41, Sects. 11, 12 and 13, Fulton, McDonough and Knox Counties $326,366; to S. J. Groves & Sons Co., Montreal St. and Cleveland Ave., Minneapolis, Minn., grading 4.87 mi. Route 31, Sect. 15-A, Fulton and Schuyler Counties, 159,157 cu.yd. excav., $98,274, to Louis Rich Constr. Co., Harrisburg, 6.53 mi. Route 14, Sect. 10-A, White and Hamilton Counties, 84,245 cu.yd. excav., $48,975. Noted Dec. 11 and 25.

Minn., St. Paul—Paving Hampden Ave., to W. A. Peterson & Ganley Bros., 506 Endicott Bldg., $67,107; Minnehaha St., to White Constr. Co., 17 North Dearborn St., Chicago, Ill., $81,120. Noted Jan. 15.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, concrete alleys, five, to Eyermann Constr. Co., 1216 South Grand Blvd., $17,-209; six, to Perkinson Bros. Constr. Co., 3237 Carter Ave., $22,983; four, to Skrainka Constr. Co., Security Bldg., $15,-345; grading alley in City Block 3269, to Webb-Kunze Constr. Co., 5927 Fyler Ave., $2,055. Noted Feb. 5.

Tex., Carthage—Panola Co., grading and bridging 6.77 mi. Federal Aid Project 458, to Tibbetts Constr. Co., Mineral Wells. Engrs. est. $79,800.

Tex., Houston—Graveling Live Oak, McGowan and 18th Sts., to A. M. Arnold, 2409 Cochran St., $25,350. Engrs. est. $25,000.

Tex., Plano—Paving 3 in. brick on 5 in. concrete various streets, to Thurber Paving Co., F. & M. Bank Bldg., Ft. Worth, $26,-409. Engrs. est. $30,000. Noted Feb. 12.

Okla., Oklahoma City—Grading, hard-surfacing, etc. Avenue E from Robinson to Shields Sts., to M. A. Swatek & Co., Security Bldg., Oklahoma City, $19,215. Noted Jan. 22.

Nevada — Directors Dept. Hys., Carson City, improving 5.72 mi. highway from Smiths Corners to West Co. line, Route 3, Sec. D-2, Contr. 118, Lyons Co., 25,000 cu.yd. excav., 8,100 cu.yd. load and screen gravel, 13,700 yd. mi. haul gravel, $8,100 cu.yd. spread gravel, etc., to J. Ross, Yerington, $41,435. Noted Jan. 29.

Wash., Port Angeles—Clallam Co., grading, etc. 4.7 mi. State Highway 5, 103,380 cu.yd. earth excav., 13,470 yd. overhaul 3,174 lin.ft. concrete culverts, etc., to G Banderet, Bryn Mawr. $67,200. Engrs. est $70,000.

Streets and Roads (Continued)

Calif., Los Angeles—To Griffith Co., Railway Bldg., improving Hollenbeck Ave. between Mines Ave. and Rio Vista St., grading $60,000, 580,750 ft. 6 in. concrete paving at $0.18 per ft., 17,512 ft. concrete curbs $0.55, 91,408 ft. sidewalks $0.17, 2,520 ft. concrete gutters $0.25, etc., total $272,-429.

Calif., San Leandro — Improving Begier and Haas Aves., 90,500 sq.ft. macadam with oiled surface, 5,330 ft. concrete curb, 7,150 sq.ft. concrete gutters, 4,803 lin.ft. 4, 6 and 8 sewers, to Hutchinson Co., Hutchinson Bldg., Oakland.

Buildings—Industrial

PROPOSED WORK

Mass., Chelsea—Factory—Panco Rubber Co., Highland St., having sketches made by Schein & Levine, archts. and engrs., 508 Pemberton Bldg., Boston, 1 story, 50 x 60 ft., brick and steel addition.

Mass., Lowell—Plant—W. M. Wilder Iron Co., plans rebuilding plant, Western Ave., recently destroyed by fire. $40,000. Engineer and architect not selected.

Mass., Woburn—Plant—Merrimac Chemical Co., 148 State St., Boston, plans (1st unit) plant addition, here. $250,000. Engineer and architect not selected.

Pa., McDonald — Factory — Pittsburgh File & Steel Co. having plans prepared 1 story, 45 x 360 ft., brick on hollow tile factory. $100,000. Private plans.

Fla., South Jacksonville—Plant—Election Mar. 4, $56,000 bonds for power plant. P. C. Marion, chn. city council.

Fla., Tampa—Plant—Tampa Bd. Trade, City Hall, plans 13 story, 45 x 120 ft. plant, Park St. $300,000. M. L. Elliot, Citizens Bank Bldg., archt.

La., Gretna—Plant—Election soon $160,-000 bonds, for electric light plant.

La., New Orleans—Factory—Fleischmann Yeast Co., Camp and Thalia Sts., having plans prepared by W. C. Keenan, Liverpool, London & Globe Insurance Bldg., for factory and garage. $50,000.

O., Dayton—Storage and Refrigeration—Harry & Lewis, 4th and St. Clair Sts., plan 4 story, 105 x 202 x 210 ft., rein.-con. storage and refrigeration building, plain foundation. $250,000. Engineer and architect not selected.

O., Euclid—Factory—Euclid Wood Products Co., L. H. Verbsky, pres., 19,422 Nottingham Rd., plans 1 story, brick and steel addition. $40,000. Private plans. This corrects report in Jan. 29 issue.

O., Wellsville—Foundry—Stevenson Fdry. Co., plans 1 story addition, Bway. $50,000.

Wis., Chippewa Falls — Factory — Chippewa Shoe Mfg. Co., J. Piotrowski, mgr., 36 West River St., plans 2 story and basement, brick and timber, plain foundation. $40,000. Engineer and architect not selected.

Wis., Milwaukee—Heating Plant—See "Buildings—Commercial."

Wis., Platteville—Cannery—W. Thompson plans 2 story, rein.-con. and brick cannery. $40,000. Engineer and architect not selected.

Minn., Mankato — Plant — Mankato Lime Co., E. D. Coughlin, secy., plans brick plant $40,000. Engineer and architect not announced.

Minn., Minneapolis—Factory—North Star Woolen Mills Co., W. G. Northrup, pres., 218 South 2nd St., having plans prepared 6 story, brick and steel, 218 South 2nd St. $175,000. Engineer and architect not announced.

Tex., San Angelo — Ice Plant — See "Buildings—Commercial."

Colo., Denver — Laundry and Cleaning Plant—Victory Laundry & Cleaning Co., West 12th Ave. and Santa Fe Dr., having plans prepared by G. M. Musick, Foster Bldg., 2 story, 68 x 100 ft. laundry and cleaning plant. $150,000.

Colo., Denver—Factory, etc.—Natl. Biscuit Co., 19th and Blake Sts., plans first unit of large plant, incl. factory and office building. $1,000,000. Private plans.

California—Factory—American Plywood Co., c/o C. Rosenthal, 1536 Grove St., San Francisco, plans plywood factory, in Contra Costa Co. To exceed $40,000.

Calif., Delano—Plant—Central California Ice Co., Mono and P Sts., Fresno, plans (1st unit) 1 story, 75 x 150 ft. ice plant.

Calif., Fresno—Maintenance Shop, etc.—State of California, c/o Highway Comn., Sacramento, having preliminary plans prepared approximately 60 x 120 ft. maintenance shop, plant and division office building, Olive Ave. and Southern Pacific R.R. tracks, $50,000. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Los Angeles—Factory—Albertson Motor Car Co., 1540 South Figueroa St., having plans prepared by J. M. Cooper, Marsh-Strong Bldg., 2 story, 200 x 300 ft., rein.-con., 50th St. and Long Ave. $200,000.

Calif., Los Angeles — Plant — McClintic-Marshall Co., c/o W. B. Kyle, vice-pres., 426 South Spring St., having plans prepared by O. L. Clark, 1418 Chapman Bldg., group of buildings, incl. steel and corrugated iron crane runway, steel and corrugated iron and brick auxiliary building and 2 story, brick office building, 110th St. and Central Ave.

Calif., Los Angeles—Shop—Dept. Pub. Serv., c/o Bureau of Light and Power, 207 South Bway., having plans prepared 3 story, 85 x 320 ft., rein.-con., North Main St. To exceed $150,000. Private plans.

Calif., Salinas—Plant—Interests, c/o W. Voss, pres. Salinas Beverage Co., plans remodeling present brewing plant into ice plant, North Main St. $50,000.

Calif., San Francisco — Laundry — Sanitary Laundry Co., 15 McCoppin St., plans to convert baking plant into laundry, and construct annex etc., O'Farrell St. near Divisadero St.

Calif., San Francisco — Mill, etc. — R. Crothers, Monadnock Bldg., plans 2 story, brick and rein.-con. mill and loft, Mission St. near 14th St. To exceed $40,000. Engineer and architect not selected.

Calif., Watsonville—Cold Storage Plant—Pajaro Valley Cold Storage Co., 2nd and Walker Sts., plans 100x300 ft., rein.-con. and brick annex.

Ont., Toronto—Plant—Firstbrook Bros., 283 King St. E., purchased site and plans constructing factory in York Twp. $200,000.

B. C., Vancouver—Plant—Vancouver Ice & Cold Storage Co., Gore Ave., having plans prepared by McCarter & Nairne, 509 Richards St., 6 story, 84 x 84 ft., rein.-con. cold storage plant, plain foundation, Gore Ave. and Railway St. $150,000.

BIDS DESIRED

Mass., Charlestown (Sta. Boston) — Factory—Wright Ziegler Co., 70 Spice St., taking bids altering and constructing brick addition, Spice St. To exceed $40,000. Monks & Johnson, 99 Chauncy St., Boston, archts. Noted Aug. 7.

Mass., Somerville (Boston P. O.) — Factory—E. F. Kemp, Skelton Ave., taking bids 2 and 3 story, 35 x 65 ft., brick addition. $45,000. W. Sidebottom, 101 Tremont St., Boston, archts. Noted Feb. 12.

Mass., Worcester—Factory—L. Krintzman, Harrison St., taking bids 4 story, 40 x 50 ft., brick and timber addition, Water and Harrison Sts. $40,000. E. T. Chapin, 340 Main St., archt.

N. Y., Corona (Sta. Flushing)—Shop—Feb. 27, by Bd. Transportation, 49 Lafayette St., New York City, 540 tons riveted steel and 210 tons steel beam, for inspection shop, here.

Pa., Morganza — Laundry — Feb. 26, by Penna Training School, W. F. Penn, supt., 1 story and basement, 80 x 90 ft., laundry. $150,000. F. McCrooks, 541 3rd Ave., Pittsburgh, archt.

Md., Baltimore—Factory—Feb. 24, by Parker, Thomas & Rice, archts., Union Trust Bldg., 1 story, 102 x 136 ft., brick factory, plain foundation, Hamburg and Bayard Sts. for Standard Gas Equipment Corp., c/o architects. $60,000.

Md., Baltimore—Bakery—Feb. 20, by A. C. Radziszewski, archt., Knickerbocker Bldg., 3 story, 50 x 75 ft., brick, plain foundation, Cole and Mount Sts., for Maryland Baking Co., 317 North High St. $65,000.

Wis., Milwaukee—Manufacturing—Seaman Body Corp., 1732 Richards St., taking bids 5 story, 102 x 400 ft., brick and timber, plain foundation, Richard St. Private plans.

BIDS RECEIVED

N. Y., Coney Island (Sta. Brooklyn) — Shop—Bd. Transportation, 49 Lafayette St., New York City, Feb. 13, foundations for main repair shop, here, from A. A. Johnson Corp., Queens Blvd., Long Island City, $579,000; enclosure of electrical repair shop, from J. H. Duncan, Inc., 5718 2nd Ave., Brooklyn, $192,400. Noted Feb. 12.

CONTRACTS AWARDED

Mass., Boston — Repair and Service Garage—Gilbert & Levine, c/o S. S. Eisenberg, archts., 46 Cornhill St., will build 2 story, 80 x 100 ft., rein.-con., Vancouver St. and Huntington Ave., by day labor. $100,000.

Mass., Lawrence — Factory — J. Wrinn, Andover St., 2 story brick and timber, Andover St., to J. Driscoll, Andover. Archts. est. $40,000.

N. Y., Buffalo—Repair Shop—Delaware, Lackawanna & Western R.R., Baldwin St., 1 story, 105 x 690 ft., steel repair shop, Hallstead Ave., to A. W. Bowles, Binghamton, $400,000.

N. Y., New York — Factory — Bell Telephone Laboratory, 463 West St., 11 story, rein.-con., brick and steel, plain foundation, Washington St., to Tidewater Co., 14 East 33rd St. Archts. est. $600,000.

Pa., Greenville—Plant—Greenville Dairy Co., general contract 2 story and basement, 48 x 101 ft. dairy plant, to Keelan & Bart, Greenville. Archts. est. $40,000. Noted Jan. 29.

Pa., McKees Rocks—Plant—Henderson Structural Units Co., general contract 1 story brick plant, to J. H. Fetterman, Park Bldg., Pittsburgh. Engrs. est. $40,000.

Md., Towson (br. of Baltimore)—Factory—Black & Decker, 1 story, 100 x 200 ft., brick and steel, plain foundation, to W. H. Sands, East Pennsylvania Ave. Archts. est. $70,000.

Va., Martinsville—Plant—Southern Virginia Power Corp., hydro-electric plant, incl. power house to contain three 1,200 hp. units, Ambursen dam, 700 ft. long, about 50 ft. high etc., on Smith River, near here, to Ambursen Constr. Co., Inc., Engineer-Constructors, Grand Central Terminal, New York City, N. Y.

La., Shreveport — Plant — Southwestern Gas & Electric Co., Shreveport, excav. work for Plant 2, to Gifford Constr. Co., Dallas, Tex.; water lines, to U. S. Cast Iron Pipe & Fdry. Co., Amer. Trust Bldg., Birmingham, Ala.; structural steel, to Worden-Allen Co., Pt. Washington Rd., Milwaukee, Wis.; pumps and condensers, to Worlington Machy. Co., Harrison, N. J.; spray pond equipment, to Spray Eng. Co., 60 High St., Boston, Mass.; boilers, to Heine Boiler Co., 5319 Marcus St., St. Louis, Mo.; and turbines, to General Electric Co., Shreveport. Total est. cost $615,000.

Tenn., Hollow Rock Junction (mail Hollow Rock)—Round House—Nashville, Chattanooga & St. Louis R.R. Co., 1000 Bway., Nashville, rebuilding rein.-con. roundhouse, here, recently destroyed by fire, to Gould Constr. Co., Independent Life Bldg., Nashville, approximately $50,000.

O., Cleveland—Factory—Ferbert-Schondorfer Co., Elmwood Ave., 3 story and basement, 50 x 60 ft., brick and steel addition, 12815 Elmwood Ave., to Austin Co., 16112 Euclid Ave. Archts. est. $40,000. Noted Feb. 12.

O., Dayton—Factory—Telling-Belle Vernon Co., 3825 Cedar Ave., 2 story and basement, 50 x 112 ft., ice cream factory, brick, steel and concrete, to H. R. Blagg Inc., 1229 East 3rd St., Dayton. Archts. est. $80,000.

Wis., Jefferson Junction — Mill — Ladish Co., 105 Wells St., Milwaukee, rebuilding 4 story, brick, plain foundation, recently destroyed by fire, to Burrell Eng. & Constr. Co., 513 West Jackson Blvd., Chicago, Ill. Engrs. est. $50,000. Noted Jan. 1.

Wis., Milwaukee — Plant — Everpure Ice Co., 1500 Walnut St., 2 story, 40 x 100 ft., brick and timber addition, plain foundation, to C. Harp, 1157 49th St., Milwaukee. Archts. est. $40,000. Noted Jan. 22.

Wis., Milwaukee — Factory — Lindsay Bros., 78 Reed St., plans rebuilding 3 story, 65 x 137 ft., brick and timber or brick and concrete factory an old foundation, Reed St., recently destroyed by fire, by day labor. Engineer and architect not selected.

Wis., Wauwatosa — Plant — Economy Block Co., 7th and East North Aves., 1 story, 40 x 100 ft., concrete block, plain foundation, State St., to J. Norwood, 258 Wauwatosa Ave. Archts. est. $40,000.

Ia., Sioux City—Machine Shop—Albertson Co., 3100 Floyd Ave., general contract 2 story, 150 x 165 ft., concrete and steel addition, to Coomer & Small, 312 United Bank Bldg., Sioux City. Archts. total est. $50,000. Noted Jan. 22.

Mo., St. Louis — Factory — Brocksmith Mfg. Co., 1860 Menard St., 1 story, 52 x 129 ft., brick and concrete factory 2118-20 South 7th St., to G. Moeller, 3520 Itaska St.

Mo., St. Louis—Factory—St. Louis Rust Proof Co., 514 South Bway., 60 x 160 ft., brick and concrete factory, 421 Poplar St., to Grone Constr. Co., 206 Benoist Bldg.

Mo., St. Louis—Factory—J. Berkowitz, 1622 Morgan St., 3 story and basement, 68 x 140 ft., brick and concrete, 1624-28 Morgan St., to Sachse Constr. Co., 4739 Kensington Ave.

Tex., Wellington — Cotton Compress — R. H. Shumaker, Waco, will build new cotton compress, here, by day labor. $50,000. W. S. O'Neil, Wellington, engr.

Calif., Los Angeles—Plant—Lloyd & Casler, 12 story and basement, 70 x 110 ft., rein.-con. textile plant, 8th and Maple Sts., to W. D. Lee, 401 Sun Bldg., approximately $500,000. Noted Feb. 5.

Calif., San Francisco—Factory—Amer. Meter Co., 1123 Harrison St., 3 story, 120 x 120 ft., rein.con., 11th and Bryant Sts., to G. Wagner, Inc., 181 South Park St., $165,350.

Calif., San Francisco—Shop—Manufacturing Building Corp., 268 1st St., 4 story and basement, metal spinning shop rein.-con., Clementina St. near 1st St., to Buschke & Brown, 604 Mission St., $41,365.

Buildings—Commercial

PROPOSED WORK

Me., Auburn—Hotel—City having plans prepared by Gibbs & Pulsifer, 14 Lisbon St., Lewiston, 5 story and basement, 90 x 100 ft., brick hotel, plain foundation. $250,000.

Me., West Pownal — Hospital — State school for Feeble Minded, c/o S. Vosberg, doctor, Lewiston, plans hospital, here. $180,000. Engineer and architect not selected.

N. H., Tilton — Schools — Bd. Trustees Tilton Seminary, raising $250,000 funds for new school buildings. Engineer and architect not selected.

Mass., Attleboro—Store and Office—M. Dana, 809 Pemberton Bldg., Boston, having sketches made by F. A. Norcross, 46 Cornhill St., Boston, 2 story and basement, brick, Park St. $150,000.

Mass., Beverly Farms — Post Office — S. Knight & Son, c/o E. S. Read, archt., 177 State St., Boston, having plans prepared 2 story and basement, brick post office, here. U. S. Government, lessee.

Mass., Boston—Apartment—M. Abrams, 115 Audubon Rd., having plans prepared by Silverman, Brown & Heenan, 51 Cornhill St., 5 story and basement, brick and cast stone, plain foundation, 121 Audubon Rd. $200,000.

Mass., Boston — Office — Bryant Real Estate Trust, c/o F. A. and F. M. Kendall, archts., 45 Bromfield St., plans altering and constructing 5 story and basement, 50 x 80 ft., brick and cast stone addition, 85-91 Court St. $150,000.

Mass., Cambridge — (Boston P. O.) — Apartment—A. Bennett and A. I. Kramer, 431 Putnam Ave., having plans prepared by A. McNaughton, 44 Bromfield St., Boston, 4 story and basement, 150 x 175 ft., brick, plain foundation, Magazine and Chestnut Sts. Noted Jan. 8.

Mass., Danvers—Temple—Masonic Order, having plans prepared by Little & Browne, 114 Federal St., Boston, 2 story and basement, brick and stone, plain foundation, High and Park Sts. $150,000.

Mass., Dorchester (Boston P. O.) — Apartment—D. Finkle, Norfolk St., having plans prepared by S. S .Levy, 35 Court St., Boston, 3 story and basement, 60 x 145 ft., brick and stone, Blue Hill Ave. $160,000.

Mass., Dorchester (Boston P. O.) — Parish and Chapel—Second Congregational Church, V. Dabney, pastor, 6 Melville Ave., plans 2 story parish house and chapel, Codman Sq. $150,000. Engineer and architect not selected.

Mass., Framingham—Convent—Sisters of St. Joseph having plans prepared by T. E. Sheehan, 120 Boylston St., Boston, 3 story and basement, Apple St. $150,000.

Mass., Holden — High School — School Com. having sketches made by Brainard & Leeds, 89 Franklin St., Boston, 2 story and basement, brick and stone high school. $150,000.

Mass., Lexington—Hotel—L. H. Chase, Chubby House Inn, having plans prepared by E. R. B. Chapman, 101 Tremont St., Boston, 2 and 3 story and basement, rein.-con. and brick addition to Chubby House Inn. To exceed $150,000.

Mass., Lynn — Hospital — Lynn Hospital, H. M. Hoague, pres., 528 Beoad St., having sketches made by Kendall Taylor Co., 142 Berkley St., Boston, 3 story, brick, hospital. To exceed $150,000.

Mass., Medford—Club—Medford Council Knights of Columbus, L. G. Gingras, pres., 136 Forest St., raising $150,000 or more funds for club. Engineer and architect not selected.

Mass., Newton (branch of Boston)—School — Mary Immaculate of Lourdes Roman Catholic Church, D. H. Donovan, pastor, Eliot St., having plans prepared by M. P. Meade, 80 Boylston St., Boston, 2 story and basement, brick and stucco, Eliot St. $150,000.

Mass., Randolph — High School — School Com., having preliminary plans prepared by Funk & Wilcox, 26 Pemberton Sq., Boston, 2 story and basement, brick addition, Main St. $150,000.

Mass., Roxbury (Boston P. O.)—Apartment—M. Rubenstein, Howland St., having preliminary sketches made by S. S. Levy, 35 Court St., Boston, 3 story and basement, brick and stone, plain foundation, Howland St. $150,000.

Mass., Somerville — Apartment — A. M. Sherry, c/o S. E. Moffie, archt., 51 Cornhill St., Boston, having plans prepared 3 story and basement, 40 x 50 ft., brick and cast stone, plain foundation, Bway. $300,000.

Mass., Taunton — School — School Com., plans school on site of old Bristol Co. Jail. $500,000. Engineer and architect not selected.

Mass., Wellesley — Dormitory — Wellsley College Building Com., raising $200,000 or more funds for new dormitory, Tower Court Hill. Engineer and architect not selected.

Mass., Williamstown — Fraternity — Psi Upsilon Fraternity, Williams College, having sketches made by Andrews, Jones, Biscoe & Whitemore, 50 Congress St., Boston, 3 story and basement, brick fraternity. $150,000.

Mass., Worcester — Laboratory — Worcester Polytechnic Institute, Boynton St., plans mechanical laboratory. $350,000. Engineer and architect not selected.

R. I., Providence — Hospital — Rhode Island Hospital, 593 Eddy St., having sketches made by Clarke & Howe, Turks Head Bldg., 3 story, rein.-con. and brick wing addition. $150,000 or more.

Conn., Middletown — School — City, S. Russell, chn., plans school, Staddle Hill. $150,000. Engineer and architect not selected.

Conn., New Britain — School — School Comn., J. M. Halloran, chn., plans school, Day and Austin Sts. $150,000. Engineer and architect not selected.

Conn., New Haven—Business—M. Langrock & R. L. Kautz, 839 Chaple St., soon takes bids 1 and 2 story, brick and steel, plain foundation, Temple and Grove Sts. $200,000. A. W. Boylan, 39 Center St., archts.

Conn., Plainville — High School — School Comn., L. S. Mills, chn., plans high school, gymnasium and auditorium. $150,000. Engineer and architect not selected.

Conn., Terryville — Hospital — Plymouth Hospital Trust, c/o R. S. Walker, Colonial Trust Co., Waterbury, plans hospital. $150,000 or more. Engineer and architect not selected.

Conn., Waterbury—Church—Immaculate Conception Roman Catholic Church Parish, W. J. McGurk, pastor, East Main St., having plans prepared by McGinnis & Walsh, Boston, church, West Main St. $300,000. Noted Jan. 29.

Conn., Waterbury—High School—Notre Dame Academy, South Elm St., having plans prepared by J. A. Jackson, 185 Church St., New Haven, high school, South Elm St. $300,000. Noted Jan. 15.

Conn., West Haven—High School—School com., plans high school. $500,000. R. W. Foote, 185 Church St., New Haven, archts.

Conn., Willimantic — Hotel — Community Hotel, J. B. Fullerton, campaign mgr., 632 Main St., plans drive to raise $150,000 plus to finance community hotel, operated by Amer. Hotels Corp.

N. Y., Brooklyn — Trade School — Bd. Educ., 500 Park Ave., New York City, plans brick, steel and stone trade school for girls, 4th Ave. and Pacific St., here. $1,000,000. W. H. Gompert, Flatbush Ave. extension and Concord St., archt. and engr.

N. Y., Buffalo—Clubhouse—City Federation of Womens Clubs, 88 Ashland Ave., plans clubhouse. To exceed $150,000.

N. Y., Buffalo—Office—W. Jackson, 827 Delaware Ave., plans 5 story, 75 x 115 ft office building, Delaware Ave. $200,000.

N. Y., Buffalo—Office—C. A. Laube, 31 West Eagle St., plans office building, Niagara St. $150,000.

N. Y., New York—Apartment—Culver Assn., 342 Madison Ave., having plans prepared by Townsend, Steinle & Haskell, archts. and engrs., 8 West 40th St., 9 story, brick, steel and stone, plain foundation, West 99th St. $500,000.

N. Y., New York — Apartment — Primo Building Corp., c/o Authors League of America, Inc., 2 East 23rd St., having plans prepared by E. Fairchild, 2 East 23rd St., 20 story, brick, steel and stone, plain foundation, 34th St. and Lexington Ave. $2,500,000.

N. Y., New York—Bank—Dollar Savings Bank, 2792 3rd Ave., having plans prepared altering and constructing 2 story, brick, steel and stone addition, plain foundation, 3rd Ave. and 14th St. $150,000. Private plans.

N. Y., New York—Hotel—Four Hundred Sixty-Four Corp., c/o H. C. Severance,

SUBWAY—NEW YORK, N. Y.

Following are lowest three bids opened by Bd. Transportation, Municipal Bldg., Jan. 29, for constructing subway in Washington Heights, Sect. 3-A, Route 78, from 122nd to 133rd Sts., (A) Rosoff Eng. Co., 152 West 42nd St.; (B) F. Snare Corp., 114 Liberty St.; (C) Mason Co., 17 West 60th St. The unit bids are as follows:

	A	B	C
186,000 cu.yd. earth excavation below and above el. 100	$9.00	$10.00	$9.90
1,030 cu.yd. earth excavation below and above el. 100 for sewers	9.00	10.00	9.90
62,000 cu.yd. rock excavation below and above el. 100	11.80	13.60	14.40
1,300 cu.yd. rock excavation below and above el. 100 for sewers	11.80	13.60	14.40
29,000 cu.yd. concrete masonry	20.00	24.00	23.00
127,000 sq.ft. rubbing concrete surface	.10	.11	.10
4,900 cu.yd. protective concrete masonry	20.00	24.00	23.00
40 cu.yd. rubble stone masonry	11.50	15.00	18.00
10 cu.yd. dry rubble stone masonry	10.00	13.00	15.00
150 cu.yd. brick masonry	38.00	40.00	50.00
10 cu.yd. hollow tile masonry	38.00	35.00	50.00
100 bbl. grout of Portland cement	5.50	8.00	8.00
25 cu.yd. broken stone	5.00	7.00	5.00
13,000 sq.yd. waterproofing, 1 ply	1.00	1.40	1.00
24,200 sq.yd. waterproofing, 3 ply	3.25	2.30	2.50
100 sq.yd. waterproofing, 4 ply	3.25	3.00	4.00
500 sq.yd. waterproofing, 5 ply	5.30	3.30	5.00
200 sq.yd. waterproofing, 6 ply	6.15	4.00	6.00
100 sq.yd. waterproofing, dry ply	.70	1.20	1.00
1,000 cu.yd. waterproofing brick in asphalt mastic, 1 layer	49.00	50.00	50.00
10 cu.yd. waterproofing brick in ashpalt mastic, 2 layers	45.00	50.00	50.00
600 lin.ft. C. I. pipe class "A", 3-inch	1.50	2.00	1.25
250 lin.ft. C. I. pipe, class "A", 4-inch	2.00	3.00	1.50
750 lin.ft. C. I. pipe, class "A", 6-inch	3.00	3.50	2.50
300 lin.ft. C. I. pipe, class "A" 8-inch	3.20	4.50	3.00
650 lin.ft. C. I. pipe, class "A", 10-inch	3.80	6.00	4.00
2,200 lin.ft. C. I. pipe, class "A", 12-inch	4.75	7.00	5.00
100 lin.ft. galvanized steel pipe, 3-inch	1.25	2.00	1.50
100 lin.ft. galvanized steel pipe, 4-inch	1.70	2.50	2.00
10 lin.ft. galvanized steel pipe, 8-inch	3.00	5.50	4.00
50 lin.ft. galvanized steel pipe, 10-inch	4.00	7.50	5.00
163,300 duct ft. tunnel ducts as per Sect. 400	.25	.25	.35
550 cond.ft. 3-in. fibre conduits	.40	.40	.40
2,200 ton steel—riveted	125.00	131.00	148.00
4-ton architectural steel and iron	350.00	500.00	400.00
550 sq.ft. sliding doors, steel panels	7.00	5.50	6.50
2 counterbalanced emergency exit covers	400.00	550.00	500.00
2,800 ton steel beams and shapes	125.00	131.00	148.00
320 ton steel rods and bars	100.00	110.00	100.00
20 ton miscellaneous iron castings	250.00	340.00	200.00
6,400 lb. special wire forms	.25	.25	.20
4,100 lin ft. wood handrail	.50	1.00	.50
5,200 sq.ft. steel gratings for ventilation	6.00	3.30	4.50
100 sq ft. vault lights	3.50	3.00	4.00
7,600 sq.yd. sidewalk restoration	3.00	4.00	3.00
17,300 sq.yd. street repavement—asphalt	4.50	6.50	5.00
10 lin.ft. 6-in. bluestone curb	2.50	5.00	4.20
100 lin.ft. 8-in. granite curb	6.00	6.00	5.00
60 sq.yd. upper 3-in. concrete walls	2.50	3.50	2.50
1,450 sq.yd. park surface restoration	3.00	4.00	2.00
12,000 lin.ft. electric conduit, ¾-in.	.35	.50	.40
50 lin.ft. electric conduit, 1½-in.	.50	1.00	.60
11,000 lin.ft. electric conduit, 1-in.	.45	.60	.50
1,100 4 x 4 x 3 in. C. I. outlet boxes	1.50	3.50	2.25

	A	B	C
10 6 x 6 x 4 in. C. I. pull boxes	8.00	10.00	6.00
110 lin.ft. 6-in. E. H. C. I. pipe	3.00	4.50	2.50
25 lin.ft. 3-in. E. H. C. I. pipe	2.00	2.40	1.15
10 lin.ft. 4-in. E. H. C. I. pipe	2.00	3.50	1.60
100 lin.ft. 8-in. E. H. C. I. pipe	3.25	6.00	3.50
100 lin.ft. 12-in. vitrified pipe sewer	5.00	5.00	6.00
700 lin.ft. 15-in. vitrified pipe sewer	6.00	6.00	7.00
200 lin.ft. 18-in vitrified pipe sewer	7.50	7.00	8.00
100 lin.ft. 22-in. vitrified pipe sewer	9.00	8.00	9.30
230 lin.ft. 24-in. vitrified pipe sewer	10.00	9.00	10.00
175 ton C. I. sewer pipe (straight)	160.00	180.00	120.00
25 ton C. I. sewer pipe (special)	240.00	220.00	240.00
2,000 lin.ft. 3 ft. 6 in. x 2 ft. 4 in. flat top R. C. sewers	16.00	25.00	20.00
100 lin.ft. 3 ft. 9 in. x 2 ft. 4 in. flat top R. C. sewers	18.00	28.00	25.00
25 lin.ft. 5 ft. 6 in. x 4 ft. 10 in. flat top R. C. sewers	24.00	46.00	40.00
2 24-in. circular sluice gates	200.00	550.00	750.00
200 lin.ft. electric R.R. (underground trolley)	15.00	25.00	20.00
850 lin.ft. electric R.R. (storage battery)	5.00	12.00	6.00
400 lin.ft. 6-in. water pipe	1.50	2.30	2.25
400 lin.ft. 12-in. water pipe	3.00	4.50	4.00
150 lin.ft. 20-in. water pipe	4.50	12.00	6.75
200 lin.ft. 48-in. water pipe	10.50	17.00	22.00
10 service connections for water pipes	35.00	60.00	50.00
100 lin.ft. 4-in. C. I. gas pipe	1.75	1.20	2.00
100 lin.ft. 6-in. C. I. gas pipe	2.00	2.20	2.25
100 lin.ft. 8-in. C. I. gas pipe	3.00	2.80	3.00
100 lin.ft. 10-in. C. I. gas pipe	3.25	3.30	3.50
100 lin.ft. 12-in. C. I. gas pipe	3.50	4.30	4.00
100 lin.ft. 16-in. C. I. gas pipe	4.00	5.50	5.50
500 lin.ft. 20-in. C. I. gas pipe	5.00	6.50	6.75
50 lin.ft. 30-in. C. I. gas pipe	7.50	11.00	11.00
50 lin.ft. 36-in. C. I. gas pipe	8.50	13.00	14.00
50 lin.ft. 48-in. C. I. gas pipe	12.00	16.00	22.00
1,700 lin.ft. 6-in. steel by-passing pipe	7.00	5.50	6.00
700 lin.ft. 8-in. steel by-passing pipe	9.00	7.00	7.50
2,400 lin.ft. 12-in. steel by-passing pipe	15.00	9.00	12.00
100 lin.ft. 16-in. steel by-passing pipe	16.00	13.00	17.50
50 lin.ft. 20-in. steel by-passing pipe	18.00	16.00	25.00
30 lin.ft. 24-in. steel by-passing pipe	20.00	21.00	30.00
40 lin.ft. 30-in. steel by-passing pipe	25.00	27.00	37.50
60 lin.ft. 36-in. steel by-passing pipe	30.00	27.00	45.00
30 lin.ft. 48-in. steel by-passing pipe	40.00	33.00	55.00
200 lin.ft. 12-in. steel by-passing pipe (overhead)	15.00	12.00	12.00
60 lin.ft. 16-in. steel by-passing pipe (overhead)	16.00	14.00	15.00
600 lin.ft. 20-in. steel by-passing pipe (overhead)	17.00	17.00	17.50
650 lin.ft. 24-in. steel by-passing pipe (overhead)	18.00	22.00	30.00
250 lin.ft. 30-in. steel by-passing pipe (overhead)	20.00	27.00	37.50
700 lin.ft. 36-in. steel by-passing pipe (overhead)	25.00	27.00	45.00
250 lin.ft. 48-in. steel by-passing pipe (overhead)	30.00	35.00	55.00
1,000 lin.ft. trestle	8.00	12.00	10.00
600 lin.ft. cable suspension for pipe over 16 in.	14.50	12.00	8.00
200 lin.ft. cable suspension for pipe 16 in. or less	10.00	12.00	7.00
10 service connection for gas pipe	40.00	60.00	50.00
40 ton new C. I. pipe—straight	125.00	110.00	120.00
5 ton new C. I. pipe—special	250.00	160.00	240.00
900 lin.ft. 8-in. mail tubes	7.50	2.50	8.00
150 lin.ft. 8-in. new mail tubes—straight	7.50	5.00	10.00
50 lin.ft. 8-in. new mail tubes—curved	7.50	10.00	12.00
27,000 duct ft. electric ducts and conduits (V.C.)	.40	.60	.45
100 lin.ft. 2½-in. electric ducts and conduits (steel)	.75	1.00	.60
100 lin.ft. 3-in. electric ducts and conduits (steel)	.80	1.25	.80
100 lin.ft. 3½-in. electric ducts and conduits (steel)	1.00	1.50	1.00
100 lin.ft. 2-in. electric ducts and conduits (steel)	.50	1.00	.50
10 service connection for electric ducts	50.00	60.00	25.00
100 lin.ft. electric ducts and conduits (wood) 3-in.	50	1.00	.60
100 lin.ft. electric ducts and conduits (fibre) 3-in.	50	1.00	50
5 service boxes	80.00	100.00	125.00
5 junction boxes	240.00	250.00	250.00
5 junction boxes, additional	360.00	500.00	300.00
Extended totals	$4,689,775	$5,248,575	$5,276,051

Buildings—Commercial (Continued)

archt. and engr., 36 West 44th St., having plans prepared 19 story, 100 x 200 ft., brick, steel and stone, plain foundation, 7th Ave. between 50th and 51st Sts. $2,000,000.

N. Y., New York—Storage—F. G. Shattuck, 60 West 23rd St., soon takes bids rein.-con., brick and steel, plain foundation, 43 West 62nd St. $250,000. R. G. Cory, 30 Church St., archt. and engr.

N. Y., New York—Theatre—University Financing Corp., c/o T. W. Lamb, archt., 644 8th Ave., having plans prepared 2 story, brick, steel and stone, plain foundation, 170th St. and Jerome Ave. $500,000.

N. J., Audubon — Church — Logan Memorial Presbyterian Church plans new church. $150,000. G. Kane, pastor. Engineer and architect not selected.

N. J., Camden — Office — E. R. Solomn, Inc., plans 10 story office building, 6th and Cooper Sts. Engineer and architect not selected.

Pa., Altoona—City Hall—W. J. Hamor, city clk., takes bids sometime in March, 3 story and basement, 120 x 120 ft., brick and steel, 13th Ave. $300,000. Hersh & Shollar, Commerce Bldg., archts.

Pa., Dormont—Apartment—R. Cipriano, 228 Academy Ave., Mt. Lebanon, having plans prepared by J. A. Long, Citizens Bank Bldg., Pittsburgh, 3 story and basement, L shaped, brick and hollow tile, West Liberty Ave. $150,000.

Pa., Reading—Apartment—W. A. Rigg, Colonial Trust Bldg., takes bids about Mar. 15, 4 story and basement, 60 x 220 ft., brick and steel apartment plain foundation. $350,000. F. Muhlenberg, Ganster Bldg., archt.

Pa., Williamsport—Theatre and Office—Chamberlain Amusement Co., Shamokin, having plans prepared by W. H. Lee, 1505 Race St., Phila., 3 story and basement, 100 x 165 ft., brick and steel, plain foundation.

D. C., Wash.—Embassy—Great Britain plans embassy building, Massachusetts Ave. near Observatory Circle, here. $500,000. F. H. Brooks, 1218 Connecticut Ave. N. W., associated archt. Architect at Supervisors Office, London, England.

D. C., Wash.—Office—Wardman Constr. Co., 1430 K St., having plans prepared by Wardman & Waggaman, 1430 K St. N. W., office building, 1300 Connecticut Ave. $1,000,000.

N. C., Apex—Hotel, etc.—Pinecrest Hotel Corp., Inc., Apex, having preliminary plans prepared resort hotel, incl. hunting lodge, swimming pools, golf and polo grounds, lakes, driveways, etc. $3,000,000. Hoysradt Eng. Corp., 342 Madison Ave., New York City, interested.

N. C., Asheville — Store, etc. — E. W. Grove, plans 174 x 394 ft. building, incl. 8 story 60 x 60 ft. central tower, fitted as bed rooms with cafe and roof garden, also 8 two story store buildings, terra cotta and white stone. $1,200,000. Engineer and architect not announced.

N. C., Greensboro — Hotel — Greensboro Bank & Trust Co., making plans 15 story and basement, 72 x 150 ft. hotel, on site of Ohpheum Theatre, recently burned. $900,000.

Fla., Jacksonville—Bank—Barnett Natl. Bank, 101 West Forsythe St., having plans prepared by Mowbrey & Uffinger, 221 West 57th St., New York City, 105 x 105 ft. bank, Laura and Adams St. $1,500,000.

Fla., Jacksonville — Church — Main St. Baptist Church, W. L. C. Mahon, pastor, 306 East 6th St., having plans prepared by J. S. Green, Jacksonville, 100 x 125 ft. church, 8th and Main Sts. $200,000.

Fla., Jacksonville — Commercial and Church—First Baptist Church, Church and Hogan Sts., plans 12 story commercial and church building, Church and Hogan Sts. L. G. Broughton, pastor.

Fla., Miami Beach — Hotel — N. B. T. Roney, had plans prepared by L. Schultz of Schultz & Weaver, 17 East 49th St., New York City, "Roney Hotel," 400 ft. frontage, Ocean Dr., 23d and 24th Sts., $1,600,000.

Fla., Tampa—Hospital—Election March 17, $1,000,000 bonds for municipal hospital. W. E. Duncan, city clk.

Fla., Tampa—Office—A. J. Sims & Associates, Citizens Exch. Bldg., plan 105 x 210 ft. office building, Florida and Cass Sts. $250,000.

Fla., Tampa—Office and Theatre—Strand Amusement Co., W. B. Gray, pres., 101 Memorial Highway plans 15 story, office and theatre building, Franklin and Park Sts. $600,000. H. S. Hampton, 1014 Citizens Bank Bldg., secy.

La., Baton Rouge—Church—First Presbyterian Church had plans prepared by Spencer & Phillips, Memphis, Tenn., brick, stone and terra cotta church. $175,000.

La., Monroe—Exchange—Southern Bell Telephone Co., 78 South Pryor St., Atlanta, Ga., having preliminary plans prepared 2 story and basement, 70 x 100 ft., rein.-con., brick and stone, Catalpa and Grammont Sts., here. $200,000. Private plans.

Tenn., Bristol — School — Election soon $162,000 bonds for school. Engineer and architect not selected.

Tenn., Knoxville — Church — Lonsdale Baptist Church, W. A. Atchley, pastor, 122 Connecticut Ave., plans 140 x 142 ft., rein.-con. and brick, Bragg and Connecticut Aves. $150,000.

Tenn., Memphis—Hotel—Forest Park Hotel Co., F. Callahan, pres., Fidelity Bank Bldg., having plans prepared by L. G. Carlisle, Falls Bldg., remodeling Lucy Brinkley Hospital into 6 story, 100 room hotel, Dunlap St. and Union Ave. $200,000-$275,000.

O., Canton—School—Bd. Educ., plans 2 story and basement, 8 room school, 3rd St. and Ralf Rd. $150,000.

O., Cleveland—Auditorium—City, W. R. Hopkins, mgr., City Hall, plans 1 story, brick, concrete, steel and stone 2 wing addition to Public Auditorium, East 6th St. $2,000,000. Engineer and architect not selected.

O., Cleveland—Commercial and Hotel—Owner, c/o C. H. Kleinman, 1237 East 102nd St., plans 3 story 80 x 125 ft., brick, steel and concrete, East 18th St. $600,000. Engineer and architects names withheld.

O., Cleveland—Hotel—Cleveland Columbian Building Co., W. J. Birmingham, pres., 1119 Superior Ave., having sketches made by M. C. Rousseau, 415 Bulkley Bldg., 10 story and basement, brick, steel and concrete, 2612 Prospect Ave. $400,000.

O., Columbus — Hotel — H. M. Fuch, Worthington, having plans prepared by R. Sims, Grand Theatre Bldg., 7 story and basement, 62x133 ft., rein.-con., brick and steel, Town and Pearl Sts., $350,000.

O., Dayton—Apartment—W. L. Wirsching, 265 West Herman Ave., plans 10 story, 70 x 125 ft., rein.-con. and brick, plain foundation, Herman St. $150,000. Engineer and architect not selected.

O., Steubenville—High School—Bd. Educ., R. McGlane, clk., having plans prepared by W. C. Findt, 38 New Zimmerman Bldg., Springfield, Junior High School, 3 story, brick and concrete. $350,000.

O., Euclid—School—Holy Cross Roman Catholic Church, T. A. Kirby, pastor, 2266 South Overlook Rd., Cleveland, having sketches made by Koehl & diNardo, 1720 Euclid Ave., Cleveland, 2 story, brick, steel and concrete, Lak eShore Blvd., here. $150,000. Noted Dec. 25.

O., Luckey—School—Bd. Educ., E. R. Christen, clk., having plans prepared by B. Stewart, Bowling Green, 2 story and basement, 100x131 ft., rein.-con. and brick, $175,000.

Mich., Dearborn — Theatre — Dearborn Amusement Co., R. D. Brown, c/o A. M. Hull, archt., 1205 Detroit S vings Bank Bldg., having plans prepared 3 story and basement, 100 x 120 ft., rein.-con., brick, steel and stone, plain foundation, Oakwood Blvd. $200,000.

Mich., Dearborn—Theatre and Recreation—Ford Temple Theatre Co. c/o Stahl & Kinsey, archts., 628 McKerchey Bldg., having plans prepared 2 story and part basement, rein.-con., brick and steel, plain foundation, Michigan Ave. $200,000.

Buildings—Commercial (Continued)

Mich., Detroit — Apartment — Chippewa Apartment Co., 1130 Parker Ave., having plans prepared by Janke, Venman & Krecke, 612 Bway. Central Bldg., 11 story and basement, rein.-con., brick and steel, plain foundation, Parker and Agnes Aves. $350,000.

Mich., Birmingham—School—Bd. Educ. having plans prepared by F. D. Madison, 209 First State Bank, Royal Oak, 2 story and basement, 18 room, rein.-con., brick and steel addition to Adams School, plain foundation. $270,000.

Mich., Detroit—Apartment—S. Katz, 5405 3rd St., having plans prepared by W. Hamacher, 916 Kresge Bldg., 4 story and basement, 87 x 143 ft., brick, steel and stone, plain foundation, Linwood Ave. $250,000.

Mich., Detroit—Apartment—Van Leyen, Schilling & Keough, archts., 3440 Cass Ave., preparing plans 4 story and basement, 90 x 180 ft., rein.-con., brick and steel, plain foundation, Woodward Ave. $200,000.

Mich., Detroit — Church and Parish House—Christ English Luthern Church, c/o G. D. Mason & Co., archts., 80 Griswold St., having plans prepared 2 story and basement, 41 x 118 ft. and 45 x 60 ft., brick, steel and stone, plain foundation, 3rd St. and Philadelphia Ave. $150,000.

Mich. Detroit—School—Bd. Educ., 1354 Bway. Ave., having plans prepared by McGrath & Page, 2231 Park Ave., 2 story and part basement, 100 x 145 ft., rein.-con., brick and steel, plain foundation, Plymouth Rd. and Livernois Ave. $200,000.

Mich., Roseville (Detroit P. O.)—School—Bd. Educ. having plans prepared by Van Leyen, Schilling & Keough, 3440 Cass Ave., Detroit, 2 story and basement, 12 room, rein.-con., brick and steel, plain foundation, $150,000.

Ill., Kankakee—High School—Bd. Educ., E. A. Jeffers, pres., 830 South Main St., takes bids in April, 3 story and basement, concrete, brick and stone high school. $500,000. L. T. W. Steube, 415 Adams Bldg., Danville, archt.

Wis., Chippewa Falls—School—Bd. Educ., c/o W. F. Larrabee, chn. Building Com., having preliminary plans prepared by E. J. Hancock, Lacock Bldg., Eau Claire, 2 story and basement, brick and tile, plain foundation. $150,000.

Wis., Fond du Lac. — High School — Bd. Educ., c/o J. Hohenesee, secy., rejected bids Feb. 4, 2 story and basement, brick and tile additions to Roosevelt Junior and Fond du Lac High Schools. $200,000 each. Noted Feb. 12.

Wis., Hubertus — Church — Carmelite Fathers, c/o C. Baumeister, P. O. Box 72, Route 1, having plans prepared by H. J. Gaul, 228 East Superior St., Chicago, Ill., 2 story, brick and stone, plain foundation, Holy Hill. $175,000.

Wis., Kenosha—School—Vocational School Bd., c/o F. E. Randall, dir., having plans prepared by W. B. Ittner, 911 Locust St., St. Louis, Mo., 2 story and basement, brick, concrete and tile, plain foundation. $200,000.

Wis., Madison—Dormitory—University of Wisconsin, J. D. Phillips, mgr., having sketches made by A. Peabody, State Capitol, 3 and 4 story, brick, steel and stone dormitory for men, plain foundation. $900,000.

Wis., Madison—Garage, etc.—Fox Motor Sales Co., 105-11 East Doty St., plans 4 story, 130 x 200 ft., brick, concrete and steel garage and repair shop, plain foundation, Broom St. Engineer and architect not selected.

Wis., Madison—High School—Bd. Educ., c/o H. C. Buser, city clk., City Hall, plans West Side High School, 3 or 4 story, concrete, brick and steel, plain foundation, Regent St. $350,000. Engineer and architect not selected.

Wis., Madison—Hotel—Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee, having preliminary plans prepared by M. Tullgren & Sons, 425 East Water St., Milwaukee, 10 story and basement, brick and concrete, addition to Hotel Loraine, plain foundation. $300,000.

Wis., Marshfield — Schools — School Dist. No. 1, c/o M. Hansen, clk., having preliminary plans prepared by Parkinson & Dockendorff, Linker Bldg., La Crosse, 2 story and basement, brick and tile addition to Vocational and Junior High Schools, plain foundations. $150,000.

Wis., Milwaukee — Apartment — Delta Realty Co., c/o W. J. Kozick, archt., 664 24th St. having plans prepared 4 story and basement, brick, tile and concrete, plain foundation, 15th St. $160,000.

Wis., Milwaukee — Apartment — Grand Manor Building Corp., c/o M. Miller, 216 West Water St., having plans prepared by M. Tullgren & Sons, 425 East Water St., 8 story and basement, 102 x 200 ft., brick and concrete, plain foundation, Grand Ave. $500,000.

Wis., Milwaukee — Apartment — A. C. Runzler, archt., 144 Oneida St., preparing plans 3 story and basement, 50 x 132 ft., brick and tile, plain foundation, Royall Pl. $150,000. Owner's name withheld.

Wis., Milwaukee—Church, etc.—St. Sebastian Congregation, c/o J. Schiltz, 595 54th St., having plans prepared by Backes & Uthus, 216 West Water St., 2 story, brick and stone church, addition to school and central heating plant, plain foundation, Washington Blvd. $300,000.

Wis., Milwaukee—High School—Sisters of Notre Dame, 676 Milwaukee St., having preliminary plans prepared by A. E. Muth, 610 Sycamore St., 3 story and basement, 97 x 200 ft., brick and concrete, plain foundation, Hawley Rd. $300,000.

Wis., Milwaukee—Hotel—Hotel Astor Co., Juneau Ave. and Marshall St., having new plans prepared by M. Tullgren & Sons, 425 East Water St., 8 story and basement, 120 x 122 ft., brick, terra cotta and concrete addition, plain foundation, Juneau Ave. $750,000. Noted Dec. 25.

Wis., Milwaukee—Hotel—M. Tulgren & Sons, archts., 425 East Water St., take bids about Feb. 23, 8 story and basement, 62 x 100 ft., brick and concrete, plain and wood pile foundation, 5th and Sycamore Sts., for O. Brachman, 530 Grand Ave. $350,000.

Wis., Milwaukee — School — St. Thomas Aquinas Congregation, c/o E. J. Blackwell, 676 36th St., plans 2 story and basement, brick and tile, plain foundation, 35th St., $150,000. Engineer and architect not selected.

Wis., Milwaukee — Theatre, etc. — R. B. Williamson & Co., archts., 508 Bway., takes bids about Feb. 26, 2 story and basement, 160 x 180 ft., brick, concrete and terra cotta, plain foundation, Kinnickinnic Ave. $300,000. Owner's name withheld.

Wis., Milwaukee—Theatre and Business—Mal Investment Co., 376 East Water St., having plans prepared by Dick & Bauer, 811 State St., 2 story and basement, 102 x 200 ft., and 86 x 88 ft., brick and concrete, plain foundation, 27th and Wells Sts. $500,000. Noted Nov. 13.

Wis., North Milwaukee — Theatre and Business—M. Brumm, c/o Princess Theatre, having plans prepared by E. A. Meyer, 2703 Lisbon Ave., Milwaukee, 2 story and basement, 92 x 120 ft., brick and tile, plain foundation, Villard Ave. $175,000.

Wis., Waukesha—Bath Houses—Waukesha Moor Baths, Prospect Ave., having preliminary plans prepared by Van Ryn & De Gelleke, 114 Grand Ave., Milwaukee, 2 story and basement, brick and concrete additional unit to bath houses, plain foundation. $150,000.

Wis., Wauwatosa — High School — Bd. Educ., R. Baird, pres., having preliminary plans prepared by Herbst & Kuenzli, 130 Grand Ave., Milwaukee, 2 story and basement, brick and tile addition, plain foundation, Wauwatosa Ave. $150,000.

Wis., Racine—Apartment—F. K. Bull, 119 11th St., having plans prepared by J. M. Matson, Baker Blk., 3 story and basement, brick and tile, plain foundation, Wisconsin Ave. $150,000.

Wis., Racine—Mausoleum—E. M. Evans, c/o S. Lovell, archt., 224 East Ontario St., Chicago, Ill., making plans 2 story, 50 x 100 ft., stone steel and marble mausoleum in Mound Cemetery. $200,000.

Ia., Cedar Rapids — Bank and Office — Merchants Natl. Bank, 3rd Ave. and South 3rd St., takes bids in April, 12 story and basement, 76 x 140 ft., rein.-con., brick, steel and stone, 2nd Ave. and South 3rd St. E., $1,000,000. Weary & Alford, 1923 Calumet Ave., Chicago, archts. Noted Jan. 15.

Ia., Des Moines—College—Des Moines University, Highland Park, making preliminary plans rein.-con., brick and stone building. $200,000. Engineer and architect not selected.

Ia., Sioux City—Terminal—Illinois Central R.R. Co., Central Station, Chicago, Ill., soon takes bids 1 and 2 story, concrete, brick and steel, freight and passenger terminal, Clark St., here. $599,500. F. L. Thompson, ch. engr. Private plans.

Minn., Minneapolis—Hotel—Dayton Co., c/o G. D. Dayton, 7th St. and Nicollett Ave., and M. T. Baker, 517 Marquette Ave., having plans prepared by Larson & McLaren, 816 2nd Ave. S., 12 story and basement, rein.-con., brick and stone, 8th St. and Marquette Ave. $1,000,000.

Minn., Minneapolis—Office—Dayton Co., c/o G. D. Dayton, 7th St. and Nicollet Ave., and M. T. Baker, 517 Marquette Ave., having plans prepared by Larson & McLaren, 816 2nd Ave. S., 12 story and basement, 100 x 165 ft., rein.-con. and terra cotta, 7th St. and Marquette Ave. $1,000,000.

Minn., St. Paul—Apartment—M. L. Gofforld, Kansas City, Mo., having plans prepared by K. B. Worthen, 648 Endicott Bldg., 2 story and basement, brick and stone, West River Blvd., here. $225,000.

Neb., Grand Island—School—Bd. Educ., c/o S. E. Sinke, secy., having plans prepared by Kirschke & Baker, 3 story and basement, 240 x 250 ft. central school. $450,000.

Neb., Lincoln—Hotel—Eppley Hotel Co., Fontenelle Hotel, Omaha, plans remodeling Lincoln Hotel, here. $400,000.

Mo., Jefferson City — Reformatory — Missouri Penitentiary making preliminary plans 3 story, brick, concrete and stone intermediate reformatory. $150,000.

Mo., Kansas City—Office—G. A. Breen & Co., 11th Floor Coca Cola Bldg., soon takes bids 3 story and basement, 70 x 115 ft., brick, rein.-con. and terra cotta, Grand Ave. H. A. Noble, 719 Pioneer Trust Bldg., engr. Archer & Gloyd, 916 Pioneer Trust Bldg., archts.

Mo., St. Louis — Apartment — Anderson, Stoke & Buermann, 808 Chestnut St., soon takes bids 3 story and basement, rein.-con., brick and stone, Cabanne St. and Hamilton Ave. $150,000. O. J. Popp, 1500 Arcade Bldg., archt.

Ark., Hot Springs — Infirmary — St. Josephs Infirmary having plans prepared by Sanders & Ginnochic, Hall Bldg., Little Rock, and takes bids about March 1, 4 story and basement infirmary. Noted April 10.

Tex., Childress—High School—Bd. Educ., c/o Secretary, making plans high school. $150,000 or more bonds available. Engineer and architect not selected.

Tex., Dallas—Warehouse—Hotel Davis, Amer. Exch. Natl. Bank Bldg., plans 3 story, 125 x 150 ft. warehouse, along Santa Fe R.R. tracks. $225,000. S. W. Carrington, Melba Theatre, engr.

Tex., Greenville—Store—W. R. Ragsdale, archt., West Lee St., soon takes bids rebuilding 2 story and basement, 100 x 162 ft., rein.-con. and brick, plain foundation, Stonewall St., recently destroyed by fire, for C. B. Jones and S. M. Kennedy. $150,000.

Tex., Houston—Hotel—J. Finger, archt., 711 Keystone Bldg., soon takes bids 10 story and basement, brick, stone, steel and rein.-con., plain and concrete pile foundation, Texas Ave., for N. P. Naman, 612 2nd Natl. Bank Bldg. $1,500,000.

Tex., Houston—Office—Fidelity Trust Co., 808 Main St., plans 12 story and basement, 75 x 100 ft., brick and steel, plain foundation, Main St. $800,000. W. W. Moore, pres. Engineer and architect not selected.

Tex., Houston — Office — R. S. Sterling, Humble Bldg., having plans prepared by Sanguinett, Staats & Hedrick, archts., 1st Natl. Bldg., Ft. Worth, 22 story and basement, 120 x 125 ft., rein.-con., stone and steel, Texas and Fannin Sts. $2,000,000. M. J. Sullivan, Carter Bldg., engr.

Tex., Houston — Theatre — A. C. Finn, archt., 505 Bankers Mortgage Bldg., soon takes bids 6 story, brick and steel, plain and concrete pile foundation, for J. H. Jones & Co., 200 Bankers Mortgage Bldg. $600,000. M. J. Sullivan, 737 Bankers Mortgage Bldg., engr. Noted Feb. 5.

Tex., Lubbock—Hotel—Sanguinett, Staats & Hedrick, archts., 1st Natl. Bldg., Ft. Worth, soon take bids 6 story and basement, 72 x 120 ft. hotel, stores, etc., here, for R. W. Blair, Lubbock. $300,000.

Tex., Midland—High School—City having plans prepared by D. S. Castle & Co., Abilene, 3 story and part basement, 120 x 150 ft., rein.-con., brick and tile, plain foundation. Election Feb. 24, $150,000 bonds for above project.

Tex., San Antonio—Bank & Office—Commercial Natl. Bank, c/o G. B. Tallafero, pres., takes bids about Apr. 1, 6 story, rein.- con., stone, steel and brick, Travis and St. Marys Sts. $200,000. Phelps & Dewees, 718 Gunter Bldg., archts. Noted Jan. 29.

Tex., San Angelo — Office, etc. — West Texas Utilities Co., having plans prepared 3 story, 135 x 190 ft., brick and rein.-con. office and ice plant, East Beauregard St. $150,000. Engineer and architect not announced.

Tex., Sherman — Administration — E. L. Spurlock, pres. Kidd-Kay College, plans administration building. $150,000. Engineer and architect selected soon.

Buildings—Commercial (Continued)

Tex., Wellington—Hotel—W. A. Renner making preliminary plans 3 story and basement, 50 x 150 ft., brick, plain foundation, Court Sq. $175,000. Engineer and architect not selected.

Okla., Oklahoma City—City Hall—Election Mar. 17, $600,000 bonds for 5 story, 100 x 140 ft., rein.-con., brick and stone city hall. Sorey & Vahlberg, Oklahoma City, archts. Noted Jan. 8.

Colo., Denver—Office—See "Buildings—Industrial."

Calif., Alhambra—Hotel—Interests, c/o B. N. Marriott, Alhambra, plans approximately 150 room, rein.-con., South Garfield Ave. and 1st St. $150,000. Engineer and architect not selected.

Calif., Berkeley—Church—Third Church of Christ Scientist of Berkeley, c/o H. H. Gutterson, archt., 526 Powell St., San Francisco, plans fireproof church. To exceed $150,000.

Calif., Corona—Club—D. Gilkie, 1108 Pacific Southwest Bldg., Long Beach, having plans prepared by W. L. Hawk, 238 East 1st St., Long Beach, 1 and 2 story, approximately 200 x 200 ft., timber and stucco clubhouse. Parkside Country Club, lessee.

Calif., Fresno — Store and Office — E. Kehrlein, Jr., 1023 Weldon Ave., plans store and office building, 125 ft. front, fireproof, vicinity of Merced and Tuolumne Sts.

Calif., Laguna (Rivera P. O.)—Store and Lodge—F. Aufdenkamp, had plans prepared by J. H. Roberts,, designer, Marine Bank Bldg., Long Beach, 2 story and basement, 50 x 100 ft., rein.-con. store and lodge building.

Calif., Long Beach — Office — W. D. Mitchell, Markwell Bldg., having plans prepared by H. H. Lockridge, 322 Markwell Bldg., 3 story, 135 x 175 ft., fireproof annex. $300,000.

Calif., Long Beach—School—City had plans prepared by W. H. Austin, Pacific Southwest Bldg., 1 and 2 story, rein.-con. school. $400,000 to $450,000.

Calif., Long Beach—Store—W. H. Wise, 115 West Bway., having plans prepared by W. H. Austin, Pacific Southwest Bldg., 3 to 5 story and basement, 75 x 150 ft., Class A, Bway.

Calif., Long Beach — Store, Office and Theatre—W. H. Brayton having plans prepared by Schilling & Schilling, Marine Bank Bldg., 2 story, 80 x 150 ft., brick, Atlantic Ave.

Calif., Los Angeles — Loft — A. S. Theberge, 715 Camden Dr., plans 12 story and basement, rein.-con., Los Angeles St. To exceed $150,000.

Calif., Los Angeles—Office—A. Soiland (interested), 1407 South Hope St., having plans prepared by J. J. Frauenfelder, Story Bldg., 9 story and basement, 50 x 155 ft., rein.-con., Hope St. $750,000.

Calif., Los Angeles—Police Station—City having plans prepared by Dept. of Construction, Exposition Park, 799 West Santa Barbara Ave., 2 story, 100 x 150 ft., brick, Pico St. $150,000.

Calif., Los Angeles — School — Elliott School for Girls, 1303 South Gramercy Pl., having plans prepared by C. H. Kyson, 6034 Hollywood Bld., 1 and 2 story schools, on 13 acre site near Wilshire Blvd. $400,000.

Calif., Los Angeles—Store and Office—Commercial Building & Finance Corp., c/o Morgan, Walls & Clements, archts., Van Nuys Bldg., having plans prepared 1 and 2 story, 180 x 300 ft., brick and steel, La Brea and Santa Monica Blvds.

Calif., Los Angeles—Synagogue—Sinai Congregation having plans prepared by S. T. Norton, 716 South Spring St., 3 story and basement, 120 x 150 ft. synagogue, 4th St. and New Hampshire Ave.

Calif., Redlands—Dormitory—University of Redlands having plans prepared by N. F. Marsh, Bway. Central Bldg., Los Angeles, 3 story and basement, 50 x 175 ft., rein.-con. dormitory, incl. laundry and heating plant.

Calif., San Diego—Hospital—Mercy Hospital, plans fireproof hospital annex. $300,000. Engineer and architect not selected.

Calif., San Francisco—Apartment—M. V. B. McAdam, 43 Sutter St., having plans prepared by C. A. Muessdorffer, Humboldt Bank Bldg., probably rein.-con., Jackson St. near Laguna St. To exceed $150,000.

Calif., San Francisco—Cathedral—Grace Cathedral, 1217 Sacramento St., having plans prepared by L. P. Hobart, Crocker Bldg., (1st unit) fireproof cathedral, on block bounded by California, Taylor, Sacramento and Jones Sts. $1,000,000.

Calif., San Francisco—Hotel—E. Glass & T. Smith, archts., 525 Market St., preparing preliminary plans 3 story and basement, brick and steel, north of Market section. $150,000. Owner's name withheld.

Calif., San Francisco—Hotel—A. Penziner, 750 Taylor St., having plans prepared 6 story and basement, rein.-con., Turk St. $250,000. Private plans.

Calif., San Francisco—Hotel—Interests represented in Canterbury Hotel Co., c/o Weeks & Day, engrs. and archts., 315 Montgomery St., plans 15 story and basement, Class A. Mason and California Sts. $3,000,000-$5,000,000.

Calif., San Francisco—School—City and San Francisco Co. having plans prepared by J. Reid, Jr., City Hall, Sherman Elementary School, fireproof, Union St. $150,000 or more.

Calif., San Francisco—Schools—City and San Francisco Co. having plans prepared by J. Reid, Jr., 1st. Natl. Bank Bldg., Hearst-Moulder School 27 room rein.-con., $500,000 or more; also Mission Junior High School, fireproof, $300,000 or more. Noted Oct. 16.

Calif., Santa Monica — Theatre — Santa Monica Community Theatre Guild, T. McCall, (interested), 904 2nd St., plans fireproof theatre. $150,000 or more.

Calif., Sunnyside — School — West Side Union High School Dist. plans election $250,000 bonds for high school. Noted Dec. 11.

Ont., Bracebridge — High School — Bd. Educ. plans 2 story and basement, 8 or 10 room, rein.-con., brick and steel plain foundation. $150,000. Engineer and architect not selected.

Ont., Grimsby—High School—Bd. Educ. having plans prepared by Burden & Gouinlock, 101 King St. W., Toronto, 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation. $150,000.

Ont., Toronto—Clubhouse—Scottish Club of Canada, 99 Yonge St., plans rein.-con., brick and steel clubhouse, plain foundation. $200,000. Engineer and architect not selected.

Ont., Toronto — Hospital — City plans rein.-con., brick and steel hospital, plain foundation. $150,000-$200,000. Engineer and architect not selected.

Ont., Toronto—Offices—Robins Ltd. Kent Bldg., plans 10 story and basement, rein.-con., brick and steel, plain foundation, Bay St. $600,000. Engineer and architect not selected. Noted Oct. 16.

Ont., Toronto—School—Bd. Educ., 155 College St., having plans prepared by C. Dyson, 155 College St., 2 story and basement, 8 or 10 room, rein.-con., brick and steel addition to Bowmore Rd. School, plain foundation. $150,000.

Ont., Toronto—School—Bd. Educ., 155 College St., having plans prepared by C. Dyson, 155 College St., 2 story and basement 8 or 10 room, rein.-con., brick and steel addition, plain foundation, North Rosedale Ave. $150,000.

Ont., Toronto—School—Bd. Educ. having plans prepared by C. Dyson, 155 College St., 2 story and basement, 12 rooms, rein.-con., brick and steel addition, plain foundation, Dufferin St. $165,000.

BIDS DESIRED

N. H., Berlin—High School—City Council taking bids Junior High School, 2 story and basement, 112 x 160 ft., brick and stone, plain foundation. To exceed $200,000. T. M. James Co., 3 Park St., Boston, Mass., archt. Noted Feb. 21, 1924.

Mass., Boston—Apartment—L. S. Koufman, 94 Queensbury St., taking bids 3 story and basement, 60 x 100 ft., rein.-con., brick and steel, plain foundation, 1800-2 Commonwealth Ave. $350,000. G. N. Jacobs, 4 Park St., archt. Noted Feb. 12.

Mass., Boston—Storage—Hudson Building Co., c/o Krokyn & Browne, 220 Devonshire St., taking bids 13 story and basement, 130 x 165 ft., rein.-con., brick and steel, plain foundation, Kneeland, Hudson and Tyler Sts. $750,000.

Mass., Hyannis—Fire Station—Hyannis Fire Dept. taking bids 2 story and basement, rein.-con. and brick, plain foundation. $150,000. L. F. Paine, Hyannis, archt. Noted Dec. 4.

Mass., Westfield—Atheneum—Feb. 20, by Town, 2 story and basement, 50 x 150 ft., brick, plain foundation, Court St. $150,000. M. B. Harding, 33 Elm St., archt. Noted Feb. 12.

Conn., Bridgeport—Warehouse—Feb. 25, by Logan Bros., Housatonic Ave., 5 story and basement, 50 x 100 ft., rein.-con. addition, Housatonic Ave. $150,000. Fletcher-Thompson, Inc., Fairfield Ave., archt. Noted Feb. 12.

Conn., Hartford — Garage — Feb. 24, by Buck & Sheldon, Inc., archts., 60 Prospect St., 4 story, 150 x 240 ft., rein.-con., plain foundation. Market St. $400,000. Owner's name withheld.

Conn., Willimantic—Home—Feb. 24, by B. P. O. E. Lodge 1311, 3 story, 60 x 100 ft., brick and stucco, Pleasant St. $150,000. Cudworth & Thompson, Norwich, archt.

N. Y., New York—Hotel and Theatre—Two Hundred Twenty-Four West 49th St. Co., Inc., D. Darrow, pres., c/o H. J. Krapp, archt. and engr., 1650 Bway., will build 15 story, brick, steel and stone, plain foundation, 224 West 49th St. $1,200,000. Work will be done by separate contracts under supervision of architects.

N. Y., Woodhaven (branch Jamaica)—School Mar. 4, by W. H. Gompert, supt. school building, Flatbush Ave. extension and Concord St., Brooklyn, addition to P. S. 65, 77th St., here, for Bd. Educ., 500 Park Ave., New York City.

N. J., Vineland—Institution—Feb. 26, by State Bd. Institutions and Agencies, 135 West Hanover St., Trenton, colony, recreation and assembly buildings, etc. at Institute for Feeble Minded, here. $375,000. A. B. Mills, state archt.

Pa., Greenville—Theatre—Feb. 21, by W. J. and G. Silverberg, Pittsburgh, and V. A. Rigamount, archt., State Bldg., Pittsburgh, 1 and 2 story theatre. $150,000.

Pa., Johnstown—City Hall—Mar. 20, by M. Z. Smith, city comr., 202 City Hall, 4 story and basement, 75 x 100 ft., brick, steel and concrete, Washington St. $250,000. Hersh & Shollar, Commerce Bldg., Altoona, archts.

Pa., Lancaster—Warehouse—Feb. 28, by E. A. Wilson, archt., 1208 Chestnut St., Phila., 5 story and basement, 120 x 150 ft., brick, plain foundation, here, for Bayuk Cigar Co., Inc. $250,000.

Pa., Millvale—School—Feb. 25, by H. D. Lyon, secy. Bd. School Directors, c/o 3rd Ward School Bldg., Evergreen Ave., 2 story and basement, 100 x 150 ft. school, North Ave. $150,000. F. McCrooks, 541 3rd Ave., Pittsburgh, archt.

Pa., Phila. — Apartment — Feb. 21, by Rosement Constr. Co., c/o G. H. Swanfold, 1317 Weidener Bldg., 4 story and basement, 100 x 147 ft., Pine St. east of 46th St. $400,000. G. B. Johnson, 5413 Media St., archt.

Pa., Phila.—Lodge and Office—Feb. 26, by Central Hall Assn., c/o H. W. Russell, chn., 555 North 17th St., 4 story and basement, 40 x 158 ft., brick and steel, plain foundation, 16th and Oxford Sts. E. A. Wightman, Bankers Trust Bldg., archt.

Pa., Phila. — Office — July 14, by D. B. Bassett, archt., 1520 Locust St., 9 story and basement, 36 x 64 ft., brick and steel, plain foundation, rear 1518-20 Locust St. $150,000. Owners name withheld.

Pa., Pittsburgh — Hospital — Pittsburgh Hospital, Frankstown Ave., taking bids 7 story and basement, 38 x 117 ft. wing addition, Frankstown Ave. and Washington Blvd. $300,000. E. B. Lee, Chamber of Commerce Bldg., archt.

Pa., Pittsburgh — School — Feb. 26, by Church of Annunication, Charles St., and H. Jannsen & E. J. Herchenroeder, archts., Century Bldg., 3 story and basement, 90 x 140 ft. school, Charles St. $500,000.

Pa., Zellonople—School—Feb. 27, by Bd. Educ. and W. G. Eckles & Son, archts., New Castle, 1 and 2 story and basement, 100 x 106 ft., brick on hollow tile addition. $150,000.

Md., Baltimore—Apartment—Feb. 25, by Parker, Thomas & Rice, archts., Union Trust Bldg., 4 or 5 story, brick and steel, plain foundation, 3404 St. Paul St., for Fenway Apartment Co., Union Trust Bldg. $150,000.

Md., Baltimore—School and Gymnasium—March 4, by Bd. Awards, 3 story and basement, 211 x 266 ft., rein.-con. and brick, plain foundation, Fait Ave. and Hudon St. $500,000. Wyatt & Nolting, Keyser Bldg., archts.

O., Cleveland — Commercial and Apartment—F. Margolin, 2496 Derbyshire St., taking bids 4 story and basement, 80 x 90 ft., brick, steel and concrete, 3629 Euclid Ave. $150,000. M. Weis, 617 Union Bldg., archt. Noted March 27.

O., Cleveland—School—F. C. Warner, archt., Hippodrome Bldg., taking bids 2 story and basement, 60 x 140 ft., brick, steel and concrete, West 65th St., for St. Colmans Roman Catholic Church, C. A. Martin, pastor, 2017 West 65th St. $200,000. Noted Jan. 1.

O., Cleveland — Store and Apartment — A. H. Greenwald & S. H. Stecker, 535

Buildings—Commercial (Continued)

Society for Savings Bldg., taking bids 2 story and basement, brick and steel, East 142nd St. and Kinsman Rd. $150,000. N. Peth, Williamson Bldg., archt.

O., Cleveland Heights (Warrensville P. O.)—Apartment—C. Bernstein, Insurance Center Bldg., Cleveland, taking bids 3 story, brick and stucco, Ludlow and Woodland Rds., here. $150,000. A. W. Harris, Discount Bldg., Cleveland, archt.

O., Lancaster—High School—Feb. 25, by Bd. Educ., Fairfield Co., P. H. Snyder, clk., 2 story and basement, 75 x 111 ft., brick and stone high school between Baltimore and Basil, $165,000. Snyder, Babbitt & Mathews, 16 East Broad St., Columbus, archts.

O., Fairview—School—March 6, by Bd. Educ., 2 story and basement, 76 x 168 ft., brick, steel and concrete school. $200,000. Fulton & Taylor, 8120 Euclid Ave., Cleveland, archts. Noted Feb. 5.

O., Zanesville — Mercantile — Apr. 1, by S. S. Kresge Co., Kresge Bldg., Detroit, Mich., 63 x 68 ft., brick and stone, Main and 5th St., here. $150,000-$200,000.

Mich., Detroit—Apartment—C. N. Agree, archt., 1133 Book Bldg., taking bids and opens same about Feb. 25, 10 story and basement, rein.-con., brick and stone, plain foundation, Cass and Kirby Aves., for Belden Building Co. c/o architect.

Minn., Duluth—High School—Feb. 23, by C. A. Bronson, secy. Bd. Educ., 3 story, rein.-con., brick and steel, Grand Ave. between 44th and 46th Sts. $1,000,000. Holstead & Sullivan, 406 Palladio Bldg., archts. and engrs.

Mich., Detroit—Mercantile—Feb. 23, by Western & Ellington, archts., 1507 Stroh Bldg., 3 story and basement, 100 x 100 ft., rein.-con. and brick, plain foundation, West Grand Blvd. for Sillman Estate, c/o architects $150,000. Noted Jan. 8.

Mich., Royal Oak (Detroit P. O.)—School—Feb. 23, by Lane, Davenport & Peterson, archts. 1017 Charlevoix Bldg., Detroit, rein.-con., brick and steel, plain foundation, here, for St. Marys Parish. $175,000. Noted Nov. 27.

Ill., Edwardsville—Sanitarium—Mar. 9, by Bd. Dirs. Madison Co. Tuberculosis Sanitarium, F. Hanke, chn., 2 and 3 story, concrete and brick, south of here. $200,000.

Wis., La Crosse — Home — La Crosse Catholic Diocese, c/o M. F. Pollack, St. Michaels Orphanage, taking bids 3 story and basement, brick and concrete, plain foundation. $150,000. C. I. Krajewski, 321 Bank & Insurance Bldg., Dubuque, Ia., archt.

Wis., Milwaukee — Synagogue — Feb. 25, by H. H. Bruns, archt., 845 26th St., superstructure for 2 and 1 story, 60 x 130 ft., brick, stone and concrete, 11th and Vine Sts., for Congregation Ansche Lebowich, c/o J. Schefrin, 2219 Chestnut St. $150,000.

Wis., Milwaukee—Refectory and Hospital—Feb. 27, by R. Messmer & Bros., archts., 221 Grand Ave., 2 story and basement, 72 x 100 ft., brick and concrete, plain foundation, State St., for Concordia College, 3127 State St. $150,000. Noted Feb. 5.

Kan., Ft. Scott—Memorial—Mar. 2, by City Clerk, 2 story and basement, 120 x 150 ft., concrete, brick and stone memorial auditorium. W. T. Schmitt, 1634 West 10th St., Oklahoma City, archt. Noted Feb. 5.

Mo., St. Louis — Apartments — E. M. Worthington, 324 Belt Ave., will build two 9 story and basement, 60 x 66 ft., brick, concrete and stone, Maryland and Taylor Aves. Work will be done by separate contracts under supervision of owner. T. L. Craven, engr. and W. S. Frank, archt., both Century Bldg., Noted Jan. 8.

Tex., Gonzales—Hotel—Mar. 15, by F. M. Fry, brick and rein.-con. hotel. $150,000. Engineer and architect not announced.

Tex., McAllen — College — H. P. Smith, archt., Natl. Bank of Commerce Bldg., San Antonio, taking bids 3 story E shaped administration building, 1 story, 20 x 40 ft. boiler house and engine room, etc., here, for J. M. Carroll, pres. Carroll College. $300,000. Noted Jan. 29.

Tex., Waco—Church—R. H. Hunt Co., archts., Southwestern Life Bldg., Dallas taking bids 3 story and basement, 120 x 298 ft., terra cotta, rein.-con., brick and stone, here, for Austin Methodist Congregation Church, c/o J. R. Milam, Waco. $250,000.

Colo., Denver — Infirmary — March 1, by Fisher & Fisher, archts., U. S. Natl. Bank Bldg., 3 and 4 story, 60 x 220 ft., rein.-con., brick and terra cotta, infirmary, for Natl. Jewish Home of Comsumptives, Colfax Ave. and Colorado Blvd. $250,000.

Calif., Del Monte—Hotel—L. P. Hobart, archt., Crocker Bldg., and C. Tantau, associated archt., 251 Kearny St., San Francisco, taking bids rein.-con. (Spanish type) hotel, for Del Monte Properties Co., c/o architects. $150,000. Noted Oct. 18.

Calif., Los Angeles—Schools—Feb. 25, by Bd. Educ., Westwood School, La Grange, Overland, Mississippi and Selby Sts., and Harvard-Blvd. School at 87th St., both 2 story, 61 x 151 ft., brick and rein.-con., $84,000 each. C. M. Hutchinson, Central Bldg., archt.

BIDS RECEIVED

Calif., Lomita (Los Angeles P. O.) — High School—Los Angeles Bd. Educ., Feb. 6, general contract Narbone High School, 3 story, 70 x 257 ft. administration and classroom building, 1 story, 32 x 84 ft. each manual arts and domestic science buildings, 1 story 70 x 120 ft. auditorium, two story and locker and shower rooms buildings, all rein.-con. and brick, Pomelo St., here, from A. Johnson, 1007 South Grand Ave., Los Angeles, $283,348; heating and ventilating, from Hickman Bros., 471 West 8th St., San Pedro, $33,725. Noted Jan. 29.

CONTRACTS AWARDED

Vt., Bristol—Bank—First Natl. Bank will alter and construct 2 story and basement, brick and steel addition, plain foundation, by day labor. To exceed $150,000. F. L. Austin, 240 College St., Burlington, archt.

Vt., Burlington — Chapel — University of Vermont, brick and stone chapel, plain foundation, to O. S. Nichols, Essex Junction. Archts. est. $500,000. Noted July 17.

Mass., Boston — Office — Shawmut Real Estate Trust, c/o Coolidge, Shepley, Bulfinch & Abbott, archts., Ames Bldg., remodeling 6 story and basement, 40 x 140 ft., store and office building, Massachusetts Ave., and Dundee St., to W. H. Whitcomb Constr. Co., 6 Beacon St. Archts. est. $150,000.

Mass., Cambridge (Boston P. O.)—Store—Garfinkle & Barton, 294 Washington St., Boston, will build 2 story and basement, 100 x 100 ft., brick, Lafayette St., by day labor. $150,000. L. G. Brakett & Co., 88 Tremont St., Boston, archts. and engrs.

Mass., Chelsea—Club—Chelsea Knights of Columbus, Bway., remodeling 4 story and basement, brick club house, 220 Bway., to M. J. Fish & Sons, 161 Summer St., Boston. Archts. est. $150,000. Noted Feb. 5.

Mass., Dorchester (Boston P. O.)—Convent—St. Marks Roman Catholic Church, 3 story and basement, rein.-con., brick and stone, plain foundation, Samoset St., to T. O'Connor & Co., 218 Main St., Cambridge. Archts. est. $150,000.

Mass., Dorchester (Boston P. O.)—Store and Apartment—S. Epstein, Stoughton, will build 3 story and basement, rein.-con., brick and stone, plain foundation, Washington and Brent Sts., here, by day labor. $150,000. A. D. Doyle, 27 School St., Boston, archt.

Mass., Fall River—City Hall—City, rein.-con., brick and stone addition, to J. F. Mooney, 207 Granite Block, cost plus percentage basis. Archts. est. to exceed $150,000.

Mass., Jamaica Plain (Boston P. O.)—Apartment—Jamaicaway Realty Co., Inc., c/o Silverman & Browne & Heenan, archts., 51 Cornhill St., Boston, will build 3 story and basement, brick and stone, plain foundation, Jamaicaway, here, by day labor. $150,000.

Mass., Worcester—Fire Alarm and Telephone—Fire Dept., 2 story, brick and limestone, fire alarm and telephone building, Newton Hill, to C. T. Rocheford, 58 Front St. Archts. est. $150,000. Noted Nov. 13.

Mass., Worcester—Office—P. H. Duprey, 390 Main St., 6 story and basement, 35 x 85 ft., Norwich St., to Keefe Bros. Co., 98 Front St. Archts. est. $250,000. Noted Jan. 8.

Mass., Worcester—Store and Office—Lincoln Constr. Co., 20 Pearl St., will build 5 story and basement, brick and steel, plain foundation, Elm St., by day labor. $150,000. McFarland & Laurie, 162 Newbury St., Boston, archt.

R. I., Providence—Hotel—Roger William Realty Co., 50 East 42nd St., New York City, 8 story and basement, rein.-con. and steel, Wayland Ave. and Angell St., to Charter Constr. Co., 50 East 42nd St., New York City.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York City, general contract P. S. 207, Fillmore Ave., here to T. A. Clarke, 310 Bedford Ave., $356,300. Noted Feb. 12.

N. Y., New York—Apartment—B. O. Z. Constr. Co., c/o J. J. Breitman, archt. and engr., 1509 Jessup Ave., will build brick, steel and stone, plain foundation, Vyse Ave., by day labor. $150,000.

N. Y., New York — Apartment — Bailey Ave. Building Corp., c/o Ratholz & Golden, archts. and engrs., 311 Lenox Ave., will build 6 story, 92 x 112 ft., brick, steel and stone, plain foundation, Bailey Ave., by day labor. $250,000.

N. Y., New York—Apartment—Coppersmoth Constr. Co., c/o C. Kreymborg & Son, archts. and engrs., 2534 Marion Ave., will build 6 story, 90 x 200 ft., brick, steel and stone, plain foundation, Sheridan Ave., by day labor. $250,000.

N. Y., New York — Apartment — One Hundred Eighty St. Constr. Corp., c/o G. G. Miller, engr., 1482 Bway., will build 6 story, 100 x 115 ft., brick, steel and stone, plain foundation, West 180th St., by day labor. $175,000.

N. Y., New York—Apartment—Sagetta Realty Corp., c/o C. Kreymnorg & Son, archts. and engrs., 2534 Marion Ave., will build 6 story, brick, steel and stone, plain foundation, Mapes Ave., by day labor. $150,000.

N. Y., New York—Chemistry—Columbia University, Morningside Heights, 12 story and basement chemistry building, to T. O'Reilly & Son, 17 East 49th St. Archts. est. $2,375,000. Noted Nov. 27.

N. Y., New York — Institute — Seamans Church Institute, 25 South St., 16 story, brick, steel and stone addition, plain foundation, South St., to J. Downey & Co., 410 West 34th St. Archts. est. $1,000,000.

N. Y., New York—Loft—I. Lassner, 146 West 35th St., 14 story, brick, steel and stone, plain foundation, 214 West 49th St., to Magoba Constr. Co., 103 Park Ave.

N. Y., New York—Loft—Natanson, Mandelbaum & Levine, 522 5th Ave., 15 story, 100 x 200 ft., brick, steel and stone, plain foundation, Lexington Ave. and 32nd St., to G. Richard Davis Co., 30 East 42nd St.

N. Y., New York—Nurses Home—Ogden Mills Memorial Hospital & Home for Incurables, 3rd Ave. and 182nd St., 3 story, brick, steel and stone, plain foundation, 181st St., to G. Richard Davis & Co., 30 East 42nd St. Archts. est. $300,000.

N. J., Freehold—High School—Bd. Educ., general contract 2 story, 60 x 145 ft. and 2 wings, to J. Check & H. Mark, South River, $186,961; heating and ventilating, to Burns, Lane & Richardson, 16 Paterson St., New Brunswick, $27,000.

N. J., Newark—Store and Office—Permanent Industrial Exposition of Newark, Inc., L. V. Aronsen, pres., 36 Park Pl., 6 story, brick, steel and stone, plain foundation, Broad and Pennington Sts., to Thompson-Starrett So., 250 Park Ave., New York City. Archts. est. $2,000,000.

Pa., Butler — Exchange — Peoples Telephone Co., general contract 3 story and basement, 80 x 100 ft. telephone exchange, Washington St., to Chapman & Graham, 132 Blackstone Ave., Jamestown, N. Y. Archts. est. $150,000.

Pa., Coatesville — Theatre and Office — Grand Plaza Corp., c/o C. S. Adams, archt., 2038 Spruce St., 4 story and basement 110 x 136 x 160 ft., brick and steel, Lincoln Dr., to J. T. Hallahan, 2313 Walnut St., Phila. Archts. est. $500,000.

Pa., Pittsburgh — Hospital — Childrens Hospital, general contract 8 story, basement and sub-basement, De Soto St., to W. T. Grange Constr. Co., Keenan Bldg.; steel, to McClintic Marshall Co., Oliver Bldg. Archts. est. $1,500,000. Noted Sept. 11.

Md., Baltimore — Church and School — F. J. Baldwin, archt., 328 North Charles St., 2 story and basement, 60 x 108 ft., brick, plain foundation, Liberty Heights Ave. and Edgewood Rd., to Frainie Bros. & Haighley, 19 West Franklin St., for Our Lady of Lourdes Church, 3415 Liberty Heights Ave. $150,000. Noted Jan. 15.

N. C., Winston-Salem—City Hall—City, 4 story, 110 x 210 ft., limestone and brick, to North Eastern Constr. Co., Winston-Salem, $451,600.

Miss., Jackson—Store—Kensington Dept. Store, general contract 6 story and basement, 100 x 100 ft., rein.-con. and brick, to Hays & Lewis, Jackson, $157,000. Noted Jan. 15.

La., New Orleans — Garage — Favrot & Livaudais, archts., Hibernia Bank Bldg., 5 story rein.-con. garage, Gravier and Poydras Sts., to G. F. Favrot, Canal Commercial Bldg., for C. S. Williams. $153,500. Noted Jan. 29.

Tenn., Memphis — Warehouse — Jones & Laughlin Steel Corp., Commercial Trust Bldg., Pittsburgh, Pa., 1 story, 120 x 240

Buildings—Commercial (Continued)

ft. warehouse, here, to Austin Co., 16112 Euclid Ave., Cleveland, O. Noted Oct. 23.

Tenn., Nashville—Post Office—Terminal Realty Co., Union Station, 2 story, rein.-con. and brick railway terminal post office, Demonbreun and McGarock Sts., to Rock City Constr. Co., 150 4th Ave. N., $150,000.

O., Canton — Mercantile — H. M. Stegel Realty Co., Canton, 3 story and basement, 66 x 127 ft., brick, steel and concrete to R. G. Witters Constr. Co., 312 3rd St. N. W., $150,000.

O., Canton—Store—Carmichael & Millspaugh Co., archts., 7 East Long St., Columbus, 2 story and basement 33 x 200 ft., brick, steel and concrete, here, to R. G. Witters Co., 312 3rd St., N. W., for W. E. and G. Shaeffer, Canton. Noted Feb. 12.

O., Cleveland—Garage—May Co., N. L. Dauby, vice pres., Euclid Ave., 3 story and basement, 150 x 198 ft., brick and rein.-con., West 2nd St. and Lakeside Ave., to S. W. Emerson Co., Union Bldg. Archts. est. $250,000. Noted Jan. 29.

O., Cleveland—Hospital—St. Alexis Hospital, c/o Sister Superior, Bway. and McBride Ave., 4 story and basement, 50 x 145 ft., brick, steel and concrete, McBride Ave., to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $250,000. Noted Feb. 5.

O., Cleveland—Nurses' Home—Lakeside Hospital, c/o M. P. Potter, secy. Building Com., Adelbert Rd., 10 story and basement, 70 x 166 ft., rein.-con., brick and steel, Cummington Rd., to Lundoff-Bicknell Co., B. F. Keith Bldg., Cleveland. Archts. est. $750,000. Noted Dec. 18.

O., Cleveland—Store—S. S. Kresge Co., Kresge Bldg., Detroit, Mich., 2 story and basement, 35 x 300 ft., brick, steel and concrete, 5806 Bway., here, to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $150,000. Noted Jan. 22.

Mich., Detroit — Library — P. R. Gray, pres. Pub. Library Comn., 2 story and basement, 75 x 100 ft., rein.-con., brick, steel and stone, plain foundation, Kercheval and Eastlawn Aves., to A. W. Kutsche Co., 333 State St. Archts. est. $150,000. Noted Jan. 8.

Neb., Omaha—Bank and Office—U. S. Natl. Bank, 5 story and basement, 22 x 132 ft., rein.-con., brick and steel 16th and Farnam Sts., to F. P. Gould & Son, 1337 City Natl. Bank Bldg. Archts. est. $250,000. Noted Sept. 18.

Mo., Kansas City — Hotel — Northeast Development Co., 2619 Independence Blvd., 4 story and basement, 50 x 164 ft., brick, rein.-con. and terra cotta, Bway., to G. F. Green, 429 Rialto Bldg.

Mo., Kansas City — Mail Order — Sears-Roebuck & Co., Arthigton and Homan Sts., general contract 2 story and basement, 120 x 322 x 340 ft. L shaped administration building, 9 story and basement, 372 x 440 ft. U shaped merchandise building, train shed 116 ft. wide between wings of merchandise building, here, to B.-W. Constr. Co., 720 Cass St., Chicago, Ill., excavation, to Norton Bros., 239 Railway Exch. Bldg., lumber, to Badge Lumber and Coal Co., 559 Westport St.; steel, to Sheffield Steel Co., Sheffield. Archts est. $4,000,000.

Mo., Kansas City — School—Bd. Educ., general contract 4 story and basement, 101 x 219 ft., brick, rein.-con., and stone, 65th St. and Wornall Rd., to L. Breitag & Son, 3703 Jarboe St., $307,449; heating and ventilating, to Grinnell Heating Co., 615 Pioneer Trust Bldg., $37,894; plumbing and drainage, to D. Hunter Plumbing & Heating Co., 715 East 15th St., $36,026.

Mo., St. Louis—Office—Local Syndicate, 16 story and basement, 62 x 65 ft., rein.-con., brick and terra cotta, 4th and Locust Sts., to Widmer Eng. Co., Laclede Gas Light Bldg.

Tex., Houston—Apartment—C. J. Gerner, 4401 Montrose Ave., 5 story and basement, 110 x 167 ft., rein.-con., tile and stucco, Montrose Blvd., to F. B. Hubbard Constr. Co., 737 Bankers Mortgage Bldg., approximately $500,000.

Wash., Seattle—Garage and Store—Olive Way Building Co., Lyon Bldg., 7 story and basement, 78 x 120 ft. garage and store building, to Sound Constr. & Eng. Co., Lowman Bldg. Archts. est. $175,000.

Wash., Seattle — Hotel — Dorchester Investment Co., Pantages Bldg., 6 story, 100 room, concrete and timber, Pike and Terry Sts., to A. S. Hainsworth, 88 Columbia St. Archts. est. $200,000.

Wish., Seattle—Hotel, Store and Garage—Seattle Leasehold Co., White Bldg., 6 story, 60 x 120 ft., rein.-con. hotel and store building, with 2 story, 55 x 120 ft. concrete garage adjoining, 8th and Union Sts., to H. Pederson, Seattle. Archts. est. $200,000.

Calif., Eureka — School — C. B. Albee, secy. Bd. Educ., general contract for Junior High School, 2 story and part basement, rein.-con., to J. L. McLaughlin, 251 Kearny St., San Francisco, for Eureka Junior High School Dist., approximately $350,000. Noted Jan. 15.

Calif., Fresno—Warehouse—Bekins Van & Storage Co., West Mission St., San Francisco, 7 story and basement, 100 x 150 ft., rein.-con., Monterey St. and Van Ness Ave., to Trewhitt-Shields Co., Pacific Southwest Bldg., $150,000. Noted July 10.

Calif., Los Angeles—Hotel and Store—Business Dist. Development Co., Merchants Natl. Bank Bldg., San Francisco, 6 story and basement, 50 x 215 ft., Class A, Cahuenga Ave., to H. Hinds, 351 South Hoover St. Noted Dec. 4.

Calif., Los Angeles—Theatre, Store and Office—Lazar & Son, 2134 Brooklyn Ave., will build 2 story and basement, 60 x 150 ft., brick, Brooklyn Ave., by day labor.

Calif., Oakland—Apartment—J. K. Calley, 1159 Green St., San Francisco, 4 story and basement, concrete and timber, Grand Ave., to M. C. Ingraham, 165 Fell St., San Francisco, $153,250. Noted Jan. 29.

Calif., Sacramento—Club—L. F. Stark, archt., Oschsner Bldg., masonry and carpentry contract for 14 story, Class A club, 11th and J Sts., to Lindgren-Swinerton, Inc., Standard Oil Bldg., San Francisco, for B. P. O. E. $330,000.

Calif., San Jose—Exchange—Pacific Telephone & Telegraph Co., 333 Grant Ave., San Francisco, structural steel work for 6 story and basement, Class "A" annex, Santa Clara St., to Judson Mfg. Co., 604 Mission St., San Francisco, approximately $23,000; general contract, to Monson Bros., 251 Kearny St., San Francisco, $175,000.

Calif., South Pasadena—Theatre—West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles, 2 story, 90 x 125 ft., brick, Oxley and Fair Oaks Aves., to W. G. Reed, 814 Pacific Southwest Bldg., Long Beach, approximately $165,000. Noted Nov. 13.

Federal Government Work

PROPOSED WORK

Mass., Boston—Storehouse—Treas. Dept., Wash., D. C., plans storehouse and repairs at Quarantine Station, here.

Va., Quantico—Pier Repairs—Spec. 5058—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairs to pier at Marine Barracks, here.

Mo., St. Louis—Post Office—U. S. Treas. Dept., Wash., D. C., having preliminary plans prepared brick, steel and stone post office, 4th and Chestnut Sts., here.

BIDS DESIRED

R. I., Providence—Dredging—Mar. 20, by U. S. Engineer Office, dredging in Thames River, Conn.; adv. E. N.-R. Feb. 19.

N. Y., Buffalo—Cable—Mar. 9, by Supt. Lighthouses, Buffalo, 17,000 ft. armored submarine cable; adv. E. N.-R. Feb. 19.

Pa., Phila.—Boiler House—Mar. 9, by Quartermaster Depot, 21st St. and Oregon Ave., constructing brick boiler house; adv. E. N.-R. Feb. 19.

O., Kenton—Post Office—Mar. 17, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story post office, here; adv. E. N.-R. Feb. 19.

Tex., Gilmer—Post Office—Mar. 16, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story, 60 x 63 ft. post office, here; adv. E. N.-R. Feb. 19.

H. T., Pearl Harbor — Hangars — Spec. 5046—Apr. 8, by Bureau Yards & Docks, Navy Dept., Wash., D. C., hangars, here, and at Coco Solo; adv. E. N.-R. Feb. 19.

BIDS RECEIVED

Mass., Boston—Seawall and Breakwater—Treas. Dept. at office Supervising Archt., Wash., D. C., rebuilding seawall, breakwater dredging and replacing fender piles, here, from Rendle Corp., Chelsea, (1) $4,762 (2) $11,402 (3) alt. $20,462. Noted Jan. 22.

Ala., Tuskegee—Filtration Plant—U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., filtration plant at U. S. Veterans Hospital 91, here, from A. C. Samford, Montgomery, $42,000. Noted Jan. 15.

Ind., Indianapolis — Office, etc. — U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., regional office and dispensary on 7th and 8th floors of test building, here, from E. C. Stratmann, Indianapolis, $14,600.

Virgin Island, St. Thomas—Oil Engine—Spec. 5062—Bureau Yards & Docks, Navy Dept., Wash., D. C., oil engine, here, from St. Marys Oil Engine Co., 1409 North 4th St., St. Charles, Mo., (1) $3,500 (2) $3,000 (3) $25 (4) $15. Noted Jan. 22.

CONTRACTS AWARDED

Mass., Newburyport—Stone—U. S. Engineer, 1703 Custom House, Boston, placing stone in Newburyport jetty, here, to P. H. Doyen Co., South Portland, Me., $2.85 per ton. Noted Jan. 29.

Tex., Galveston — Jetty Repairs — U. S. Engineer Office, Galveston, jetty repairs to north jetty, to Scott & Brass, New Orleans, La., $6.68 for Sects. 1 to 4, and $1.50 for overstones. Noted Jan. 8.

Wash., Puget Sound—Boiler Plant—Spec. 5041—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to boiler plant, here, to Newport Contg. & Eng. Co., Law Bldg., Newport News, Va., $90,197 (180 days), also concrete chimney, here, to Weber Chimney Co., 332 South Michigan Ave., Chicago, Ill., $8,405, (120 days). Noted Jan. 29.

Calif., San Diego—Repairs to Pier—Spec. 5070—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to target pier, here, to Barclay & Schamild, 2350 Columbia St., $3,787.

Unclassified

PROPOSED WORK

Filling Station — Lowell, Mass. — Gulf Refining Co., Frick Annex, Pittsburgh, Pa., plans filling station, Chelmsford St., here. Private plans.

Swimming Pools, etc.—Apex, N. C.—See "Buildings—Commercial."

Underpass—Greensboro, N. C.—State Hy. Comn., Raleigh, making plans grading and constructing underpass under Atlantic & Yadkin R.R. known as State Project 537-C, here. $35,000. C. H. Upham, engr.

Docks—South Jacksonville, Fla.—Election Mar. 4. $25,000 bonds to develop municipal docks. P. C. Marion, chn. city council.

Park, etc.—Titusville, Fla.—Election Mar. 10, $35,000 bonds for park and recreation fields. Address City Commissioners.

Tunnel — Missionary Ridge (mail Chattanooga), **Tenn.** — Hamilton Co. (Chattanooga) making preliminary surveys for tunnel, here. $400,000-$500,000. E. G. Meenell, Court House, Chattanooga, engr.

Grade Separation—Port Huron, Mich.—St. Clair Co., Pere Marquette R.R. and Grand Trunk R.R., County Bldg., making plans steel encased in concrete viaduct with rein.-con. piers and walls, to carry traffic on 24th St. over tracks. F. E. Beard, Port Huron, co. road comr.

Grandstand — West Allis, Wis. — Dept. Agriculture, Capitol, Madison, had revised plans prepared rein.-con. grandstand addition, at State Fair Park. $150,000. A. Peabody, Madison, engr.

Amphitheatre — University City, Mo. — Flint Garrison, et al, 1627 Locust St., St. Louis, having preliminary plans prepared open air theatre, 3,000 seating capacity, Olive St. Rd. and Creve Coeur Lake car line, here. $100,000 up. J. C. Stephens, Chemical Bldg., St. Louis, engr.

Transmission Line—Oklahoma—City of Butler making preliminary plans electric distribution system in Butler and 20 mi. electric transmission line to Clinton. $28,000. Engineer not selected.

Transmission Line—Oklahoma—City of Carter voted $26,000 bonds for 14 mi. electric transmission line to Elk City. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Transmission Line—Oklahoma—City of Hinton making preliminary plans electric transmission line to Geary. $30,000. Engineer not selected.

Stadium—Norman, Okla.—University of Oklahoma takes bids in March, 1 story, 180 x 390 ft., rein.-con., plain foundation, on campus. $150,000. Sorey & Vahlberg, Braniff Bldg., Oklahoma City, archts. Noted Dec. 4.

Athletic Park—Eureka, Calif.—City plans athletic park east of Sequoia Park. $60,000. A. W. Kildale, city clk.

Electrolier System—Fresno, Calif.—Making plans electrolier system on Willis Ave. between Blackstone and Fresno Sts., Platt Ave. between 5th and 12th Sts., 5th, 6th, 7th, 8th, 9th, 10th and 11th Sts. between Platt and Kerchkoff Sts. To exceed $25,000. W. Stranahan, city engr.

Unclassified (Continued)

Tunnel—Long Beach, Calif.—See "Streets and Roads."

Elimination of Grade Crossing — Long Beach, Calif.—City and Pacific Electric Ry., Pacific Electric Bldg., Los Angeles, plan grade crossing under railroad tracks at Pacific Ave. $75,000. R. D. VanAlstine, city engr.

Gas Holder — Los Angeles, Calif. — Los Angeles Gas & Electric Co., 810 South Flower St., made plans gas storage holder, 245 ft. diam., 375 ft. high, Duncommon St. $650,000 or more. Bartlett-Hayward Co., Central Bldg., engrs.

Street Lighting System—Redondo Beach, Calif. — Made plans ornamental street lighting system on South Catalina St. and The Esplanade. To exceed $75,000.

Street Lighting System—San Bernardino, Calif. — Plans ornamental street lighting system on Arrowhead Ave. between 2nd and 13th Sts., and G St. between Rialto and 4th Sts. $90,000-$100,000. C. E. Johnson, city engr.

Street Lighting System—Torrance, Calif. —Plans ornamental street lighting system on Western Ave., Torrence and Carson Sts., etc. To exceed $95,000. J. J. Jessup, city engr.

Transmission Lines, etc.—Ontario—Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, made plans extending transmission lines, addition to generating and substations $12,000,000. F. A. Gaby, ch. engr.

BIDS DESIRED

Asphalt Plant—East Concord, N. Y.—Feb. 21, by Erie Co. Purch. Agt., 76 Exch. St., Buffalo, erecting asphalt plant, and furnishing one 8 ton and one 3 ton asphalt steam rollers, one gasoline caterpillar crane with ¾ yard bucket and 35 to 40 ft. boom, here.

Fire Sprinklers—Brooklyn, N. Y.—Mar. 11, by State Hospital Comn., Capitol, Albany, automatic fire sprinklers at Brooklyn State Hospital, here; adv. E. N.-R. Feb. 19.

Subway—Phila., Pa.—Mar. 17, by H. E. Ehlers, at office Dept. City Transit, 1211 Chestnut St., 7,184 lin.ft. 4 track subway in Broad St. from Filbert to Stiles Sts.; adv. E. N.-R. Feb. 19.

Heating and Ventilating—Kansas City, Mo.—See "Buildings—Commercial."

Subway—Martinez, Calif.—Mar. 3, by supervs. Contra Costa Co., constructing Christie Crossing subway, steel and concrete, at Santa Fe R.R. tracks in Franklin Corners. To exceed $50,000. R. R. Arnold, Martinez, co. surv. Noted Aug. 14.

Wall—Fraser River, B. C.—Feb. 26, by S. E. O'Brien, minister Dept. Pub. Wks., Ottawa, Ont., brush and sand filled retaining wall, here. $40,000.

BIDS RECEIVED

Pier Shed—New York, N. Y.—M. Cosgrove, comr. Docks, Pier A, foot Battery Pl., Feb. 11, pier shed and bulkhead shed for Pier 2, North River, Contr. 1847, from O'Day Constr. Co., 1639 Bway., $406,954. Noted Feb. 5.

Roofing, etc.—New Orleans, La.—Bd. Port Comrs., New Court House, sheet metal work and glazing on Claiborne Ave. shed, from Blattman-Weeser Sheet Metal Wks., 1001 Toulouse St., $28,411; structural steel from Rochester Bridge Co., New Orleans, $33,-606; erecting and painting steel, from Lukens Steel Co., 626 South Peters St., $43,-865; erecting structural steel, from B. N. Davis, 831 Magazine St., $8,140; roofing shed (1) tar and gravel or tar and slag, (2) asphalt or asphalt and slag (3) asphalt and asbestos or slag, from J. J. Clarke Co., New Orleans, (1) $39,369 (2) $39,419, from Johns-Manville Co., Inc., Magazine and Gravier Sts., (3) $38,591.

Seawall—San Diego, Calif.—See "Excavation, Drainage, Irrigation, Levees."

CONTRACTS AWARDED

Subway—New York, N. Y.—Bd. Transportation, 49 Lafayette St., subway in Washington Heights, Sect. 3, Route 78, to Heyman & Goodman, 140 Wadsworth Ave., $4,857,000; also Sect. 3A, Route 78, to Rosoff Eng. Co., 152 West 42nd St., $4,600,-000. Noted Jan. 29 and Feb. 5.

Borings—New York, N. Y.—Bd. Transportation, Municipal Bldg., borings along West Bway., Geenwich, 6th and 8th Aves., East 53rd, Wall, Fulton, Church, Houston and Worth Sts., Agreement "DQ," Manhattan Boro., to Osborne Drilling Co., 120 Liberty St., $53,173; also miscellaneous construction providing sewer and water connections at various locations, Agreement "DO," Bronx Boro., to Fox Reynolds Co., 81 East 125th St., $7,615. Noted Jan. 15.

Landing Platform—New York, N. Y.—M. Cosgrove, comr. Docks, Pier A, foot Battery Pl., extending Battery landing platform and berth for baths, Contr. 1846, to A. N. Spooner & Son, Pier 11, North River, $22,-811 and $2,320 respectively. Noted Feb. 12.

Grain Elevator — Cedar Grove, La. — Shreveport Mill & Elevator Co., c/o F. Davis, Shreveport, 500,000 bu. grain elevator, rein.-con., Baronne St., to Hansen-Worden Constr. Co., Shreveport, $100,000 plus percentage basis.

Grade Separation—Springwells, Mich.—B. P. Esper, city clk., constructing Schaefer Rd. and Detroit & Ironton Ry. grade separation, to R. A. Mercier, 5435 Wesson Ave., Detroit, $285,000. Noted Feb. 12.

Line Extension — Texas — West Texas Telephone Co., Brownwood, will extend lines from Brownwood to Abilene, Brady, Eden, Goldthwaite and Hamilton, by day labor, $32,000. Private plant.

Lighting System—El Paso, Tex.—Lighting system on Texas St. between Campbell and Piedras Sts., to J. E. Morgan, 319 Texas St., $44,666.

Conduit System—Houston, Tex.—Houston Power & Light Co. will replace poles on Crawford St. with underground conduit system, by day labor. $40,000. Private plans.

Street Lighting System — South Pasadena, Calif.—To A. C. Rice, 1936 Santee St., Los Angeles, ornamental street lighting system in portions of Mission St. and Pasadena Ave. $16,950, East Mission St. $6,990, and Orange Grove Ave. $3,930. Noted Nov. 13.

Pipeline Pontoons—Portland, Ore.—Port Comrs., one hundred and twenty 12 x 26 ft. wooden pontoons, to Portland Ship Building Co., Foot Nebraska St., $38,360.

Boardwalk—Long Beach, Calif.—Constructing board walk on piles, to J. L. Frazer, Kreis Bldg., $27,400. Engrs. est. $26,220. Noted Sept. 4.

Material and Equipment

PROPOSED WORK

Tar—Trenton, N. J.—Mercer Co. plans to purchase tar. $500,000. H. F. Harris, Court House, engr.

Street Sweeper—Palo Alto, Calif.—Plans to purchase 1 motor driven revolving broom (street sweeper). $7,000. J. F. Bxybee, Jr., city engr.

Crusher, Hoist, etc.—San Jose, Calif.—Santa Clara Co. plans to purchase one No. 2 Reduction Tellsmith Crusher, bunker and hoist, caterpillar tractor and road grader. R. Chandler, co. surv.

BIDS DESIRED

Rollers and Crane, etc.—East Concord, N. Y.—See "Unclassified."

Lumber and Piles, etc.—New York, N. Y. —Feb. 25, by J. E. Bowe, comr. Purchase, Municipal Bldg., lumber and piles, steel plates and reinforcing bars, to Dept. Plant & Structures.

Road Roller—Columbia, S. C.—Feb. 24, one 10 ton road roller, steam or motor driven (old roller to be taken in part exchange). W. S. Tomlinson, City Hall, engr.

Dragline Machine — Greenville, Miss. — Mar. 10, by Comrs. Black Bayou D. D., Washington Co., self propelling dragline machine with internal combustion engine, etc. O. C. Kulicka, secy. and treas.; adv. E. N.-R. Feb. 19.

Rock Crusher—Lebanon, Tenn.—Feb. 25, by City, rock crusher with elevator and screen.

Granite Block—Cleveland, O.—Feb. 20, by City, granite block, asphalt filler, asphalt, cement and paving brick. R. Hoffman, City Hall, engr.

Steam Shovels—Columbus, O.—W. S. Harman, Hartman Bldg., in market for 2 large steam shovels.

Grader — Manitowoc, Wis. — Manitowoc Co., c/o J. Connell, highway comr., in market for 3 motor patrol graders.

Road Oil—Marshfield, Wis.—Feb. 23, by J. A. Schindler, city clk., 5 cars with privilege of 2 or more cars 50 to 60% asphalt and alternate on 60 to 65% asphaltic content.

Road Oil—Ripon, Wis.—Feb. 24, by F. A. Preston, city clk., 20,000 gal. No. 5 road oil having 50 to 60% asphaltic content.

Sand and Gravel Equipment — Good Thunder, Minn.—A. W. Darge, in market for sand and gravel equipment.

Cement, etc. — Minneapolis, Minn.—Feb. 23, by F. S. Gram, city purch, agt., 2,000 tons asphaltic cement, 600 tons pitch, and 50,000 gal. refined tar. N. W. Elsberg city, engr.

Oil Distributer — Minneapolis, Minn. — Feb. 26, by F. S. Gram, city purch. agt., one oil distributer mounted on truck.

Tar — Minneapolis, Minn. — Feb. 24, by F. S. Gram, city purch agt., 500,000 gal. refined tar. N. W. Elsberg, city engr.

Tractor — Winona, Minn. — Mar. 3, by City, one 5 ton caterpillar tractor. G. Hoffmann, city clk.

Road Machines, etc. — Grand Forks, N. D. — Mar. 6, by Commissioner, Grand Forks Co., 16 road maintenance machines for either 2 or 4 horses, 6 to 8 ft. blades, weighing from 900 to 16,000 lbs. each. M. O. Haugan, co. aud.

Graders—Jamestown, N. D.—Mar. 3, by A. H. Sherman, aud. Greene Co., one 12 ft. heavy road grader.

Asphalt Cement, etc. — Hamilton, Ont. — Feb. 27, by S. H. Kent, city clk., addressed to T. W. Jutten, mayor, chn. Bd. control, City Hall asphalt cement, broken stone, screenings, limestone dust, asphalt sand, sand and gravel, pipe, etc.; adv. E. N.-R. Feb. 19.

Asphalt, etc.—Ottawa, Ont.—Feb. 24, by Bd. Control, City Hall, asphalt, asphalt filler, brick, c.i. pipe, cement, pig lead, broken stone, sand fuel oil, castings, etc.

Crane—Melbourne, Australia—Apr. 1, by Victorian Government Rys., one 15 ton electric traveling Goliath crane.

BIDS RECEIVED

Asphalt Sand—Brooklyn, N. Y.—J. A. Guider, boro pres., Boro Hall, Feb. 11, 10,-000 cu.yd. asphalt sand, from Hygrade Builders Supply Co., 6th St. and 2nd Ave. $12,850; 5,000 cu.yd. paving and concrete sand, from T. E. McCormick, 325 Rutland Rd., $5,725. Noted Feb. 5.

Broken Stone, etc. — Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., Feb. 9, from Hygrade Builders Supply Co., 6th St. and 2nd Ave., Brooklyn, 28,000 cu.yd. broken stone and screenings $83,160, 15,000 tons steam ashes $22,950, 6,500 cu.yd. sand grit or broken stone chips of trap rock $15,795, 15,-000 tons steam ashes $22,950; from Standard Oil Co., 26 Bway., New York City, 600,-000 gal. road oil $36,480, 1,300 tons asphaltic cement $27,300, 350,000 gal. asphaltic macadam binder $25,480; from Warner Quinlan Co., 79 Wall St., New York City, 25,000 gal. asphalt for patching $4,388, 60,-000 gal. fuel oil $3,930; from Terminal Supply Co., 25,000 vitr. paving bricks $1,495, 864 ft. 12 in. iron pipe $1,970; from E. E. Buehler, 103 Park Ave., New York City, $50,000 wood paving blocks $2,728; from Hastings Pavement Co., 25 Broad St., New York City, 100,000 asphalt paving blocks, $9,531. Noted Feb. 5.

Sand Grit, etc.—New York, N. Y.—H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., Feb. 10, from J. W. Farrell, Valentine Ave., 9,000 cu.yd. sand grit, $16,550; from Standard Oil Co., 26 Bway., 1,500 tons asphaltic cement $33,330, 750,000 gal. bituminous road surfacing material $50,250; from P. Solomon, 1358 Brook Ave., 5,000 bags Portland cement $3,425; from Grangers Mfg. Co., Weststock, Mass., $4,865; from Barrett Co., 17 Battery Pl., 150,000 gal. tar for patching $23,850, 300,-000 gal. bituminous road material $32,-700, 75 tons pitch joint filler $2,063; from J. A. Maloney Co., 1170 Bway., long leaf yellow pine $9,680; from Gallagher Shand, 420 East 105th St., 1,000 cu.yd. concrete and paving sand $1,700; from Calvin Tompkins, 30 Church St., 7,500 cu.yd. binder stone $14,850; from Hygrade Builders Supply Co., 6th St. and 2nd Ave., Brooklyn, 500 cu.yd. hard coal ashes, $1,370; from Ames Building Material Co., 3441 Kingsbridge Rd., 10,000 cu.yd. steam ashes $16,700; from Z. Mahoney, 557 46th St., Brooklyn, 10,000 cu.yd. asphalt sand, $12,800; from United Sand & Gravel Co., 425 West 216th St., 4,000 cu.yd. 1½ in. waterbound macadam stone, etc. $27,625. Noted Feb. 5.

Sand Grit, etc. — New York, N. Y. — J. Miller, pres. Manhattan Boro., Municipal Bldg., Feb. 16, 2,500 cu.yd. sand grit and 3,000 cu.yd. concrete and paving sand, from Gallagher-Shand Co., 420 East 105th St., $4,125 and $4,500 respectively; 50,000 special 5 in. granite paving blocks, from St. George Granite Co., 90 West St., $7,425; 4,000 cu.yd. coarse aggregate for concrete, from Hygrade Builders Supply Co., 6th St. and 2nd Ave., $8,760; 500 tons asphalt joint filler, from Standard Oil Co., 26 Bway., $12,290; 4,000 tons inorganic dust and 8,000 cu.yd. ¾ in. binder stone, from New York Trap Rock Co., 101 Park Ave. $25,960 and $15,120 respectively; two 5 ton trucks, from Pitts Motors, Inc., $9,920.

CONTRACTS AWARDED

Steel—Pittsburgh, Pa.—See "Buildings—Commercial."

Sand and Gravel—Minneapolis, Minn.—F. S. Gram, city purch. agt., 7,500 cu.yd. sand and 15,000 cu.yd. gravel, to J. Wunder Co., Bway. and K Sts., for Water Dept. Noted Jan. 15.

Lumber and Steel—Kansas City, Mo.—See "Buildings—Commercial."

Gas Tank—St. Louis, Mo.—Laclede Gas Light Co., 1017 Olive St., 2,000,000 cu.ft. steel gas tank, connections, etc., at 141 Park Ave., to Bartlett-Hayward Co., 200 Scott St., Baltimore, Md. Engrs. est. $150,000.

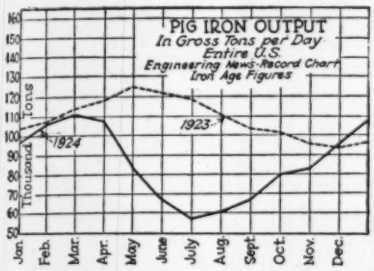
CONSTRUCTION NEWS

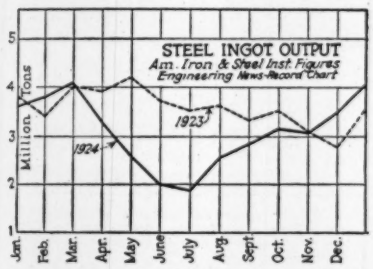
Engineering News-Record, February 26, 1925

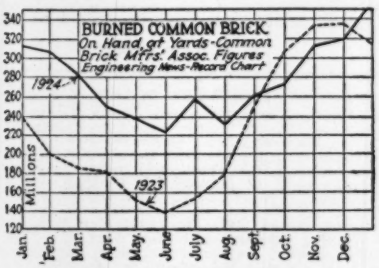
The Construction Barometer

Production of Basic Materials Active But Not to the Point of Over-expansion—Demand Gaining as Spring Approaches

THE basic materials output is picking up speed from week to week, in anticipation of the spring demand. Sufficient caution is being exercised to prevent over-expansion in any one line. The charts show steady seasonal gains in most of the principal materials, while in the case of common brick, more than the usual quantity is stored at yards for use between now and June, 1925. Cement production does not, as a rule, begin to revive from the mid-winter lethargy until March, and continues to gain from that time on until late summer and early autumn, after which time the trend is usually downward. Steel demand is approaching the August, 1923, level as shown by the chart of unfilled orders. Pine demand appears to be gaining slightly over fir, since in the former, orders are less than one per cent below output, while in the latter, they are at least three per cent below production.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

Value of Large Contracts Let In The United States

Week Ended	Public Work	Private Work	Total Contracts
Feb. 5.	$13,213,000	$20,500,000	$33,713,000
Feb. 12.	12,609,000	25,577,000	38,186,000
Feb. 19 .	20,863,000	27,401,000	48,264,000
3 Weeks	$46,685,000	$73,478,000	$120,163,000

Large Building Contracts—Number and Value

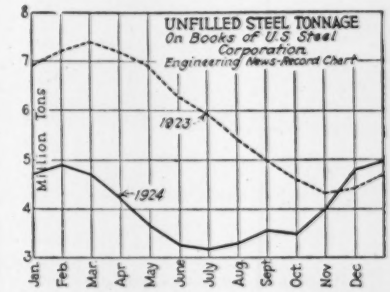
Week Ended	Commercial Public No.	Commercial Public Thousand	Commercial Private No.	Commercial Private Thousand	Industrial No.	Industrial Thousand
Feb. 5	11	$3,525	27	$17,107	18	$1,539
Feb. 12	4	885	26	24,073	17	1,327
Feb. 19	10	2,503	49	23,282	24	3,921
3 Weeks	25	$6,913	102	$64,462	59	$6,787

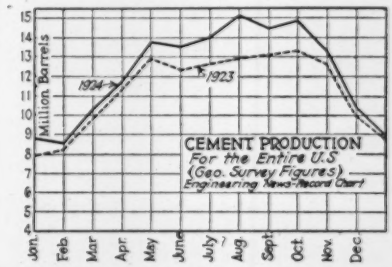
Number Of Large Jobs Now Out For Bids

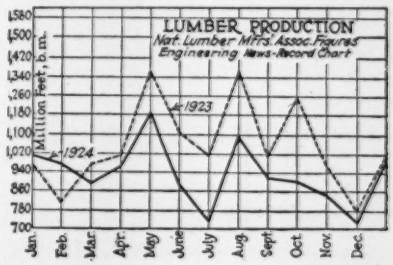
Week Ended	Private	Commercial Buildings	Streets and Roads	Waterworks and Sewers	All Public
Feb. 5	23	40	41	34	174
Feb. 12	34	49	43	42	186
Feb. 19	48	61	50	50	205

Basic Materials Prices at Important Points

	Quoted on Feb. 26 at	Last Price Change Was	On
Structurals, Pittsburgh, 100 lb.	$2.00 @2.20	$2.00 @2.10	Feb. 5
Cement, Chi., net bbl.	2.20	2.10	Jan. 15
Pine, N. Y., M. ft.	60.00	57.00	Jan. 15
Fir., San Fran., M. ft.	29.00	31.00	Oct. 30
Common labor, hr., U.S.	.54	.55½	Jan. 29







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Feb. 27	New London, Conn.	Feb. 19
Feb. 27	Cleveland, O.	Feb. 26
Mar. 2	Two Rivers, Wis.	Feb. 19
Mar. 3	Barberton, O.	Jan. 29
Mar. 3	New Brunswick, N. J.	Feb. 19
Mar. 3	St. Paul, Minn.	Feb. 26
Mar. 3	Long Island City, N. Y.	Feb. 26
Mar. 4	St. George, N. Y.	Feb. 26
Mar. 4	Oroville, Calif.	Feb. 26
Mar. 5	Covington, Ky.	Feb. 19
Mar. 5	Ambridge, Pa. Adv. Feb. 19 and 26.	Feb. 19
Mar. 5	Quinton, Okla.	Feb. 19
Mar. 10	Ormond, Fla.	Feb. 19
Mar. 10	Piqua, O.	Feb. 12
Mar. 10	Phillips, Wis.	Feb. 26
Mar. 16	Lake Forest, Ill Adv. Feb. 26.	Feb. 26
Mar. 16	New York, N. Y.	Feb. 5
Mar. 17	Kansas City, Mo. Adv. Feb. 19 and 26.	Feb. 19
Mar. 18	Kansas City, Mo. Adv. Feb. 19 and 26.	Feb. 19
Mar. 19	Kansas City, Mo. Adv. Feb. 19 and 26.	Feb. 19
Mar. 20	Kansas City, Mo. Adv. Feb. 19 and 26.	Feb. 19
Mar. 21	Kansas City, Mo. Adv. Feb. 19 and 26.	Feb. 19
Mar. 21	Kansas City, Mo. Adv. Feb. 26.	Feb. 26
Mar. 23	St. Augustine, Fla. Adv. Feb. 19 and 26.	Feb. 19

SEWERS

Bids Close		See Eng. News-Record
Mar. 2	Elgin, Ill. Adv. Feb. 5 to 26.	Feb. 5
Mar. 3	Columbia, Miss.	Feb. 26
Mar. 3	Hartford, Conn.	Feb. 26
Mar. 4	Baltimore, Md.	Feb. 26
Mar. 5	Rogers, Ark.	Feb. 19
Mar. 5	Westerville, O.	Feb. 12
Mar. 6	Richmond, Va. Adv. Feb. 19 and 26.	Feb. 19
Mar. 7	Columbus, O.	Feb. 26
Mar. 9	Los Angeles, Calif.	Feb. 26
Mar. 9	Decatur, Ill.	Feb. 12
Mar. 9	Madison, S. D.	Feb. 19

Bids Close		See Eng. News-Record
Mar. 10	Phillips, Wis.	Feb. 26
Mar. 10	Macon, Ga. Adv. Feb. 26.	Feb. 26
Mar. 10	Urbana, Ill.	Feb. 12
Mar. 10	Lakeland, Fla. Adv. Feb. 19 and 26.	Feb. 19
Mar. 12	Correctionville, Ia.	Feb. 26
Mar. 18	Elizabeth City, N. C. Adv. Feb. 19 and 26.	Feb. 19
Mar. 18	East Chicago, Ind. Adv. Feb. 26.	Feb. 26

WASTE DISPOSAL

Mar. 9	Lakewood (Cleveland P. O.), O.	Feb. 26

BRIDGES

Feb. 27	Lancaster, Pa.	Feb. 12
Feb. 28	Missouri	Feb. 19
Mar. 2	California	Feb. 19
Mar. 2	Vero, Fla.	Feb. 19
Mar. 2	Manitowoc, Wis.	Feb. 26
Mar. 3	Anderson, Tex.	Feb. 26
Mar. 3	Oklahoma	Feb. 26
Mar. 4	Allenhurst, N. J. Adv. Feb. 12 to 26.	Feb. 12
Mar. 4	Matawan, N. J. Adv. Feb. 12 to 26.	Feb. 19
Mar. 5	Charleston, S. C.	Feb. 12
Mar. 6	Nashville, Tenn.	Feb. 26
Mar. 9	California	Feb. 26
Mar. 10	Winnsboro, S. C.	Feb. 19
Mar. 10	Williamsport, Pa.	Feb. 19
Mar. 11	Brushvale, Minn.	Feb. 19
Mar. 16	California	Feb. 26
Mar. 16	Illinois	Feb. 26
Mar. 17	Dayton, O.	Feb. 26
Mar. 23	St. Augustine, Fla. Adv. Feb. 19 and 26.	Feb. 19
Mar. 31	Louisiana Adv. Feb. 26.	Feb. 26

EXCAVATION, DRAINAGE IRRIGATION, LEVEES

Mar. 2	Ithaca, N. Y.	Feb. 5
Mar. 3	Jacksonville, Ill.	Feb. 26
Mar. 17	Pocahontas, Ia.	Feb. 26
Mar. 20	Marlow, Okla.	Feb. 26

STREETS AND ROADS

Feb. 20	Coney Island (Sta. Brooklyn), N. Y.	Feb. 12
Feb. 21	East Concord, N. Y.	Feb. 19
Feb. 24	Baltimore, Md.	Feb. 19
Feb. 27	Pennsylvania	Feb. 5
Feb. 27	Greenburg, Pa.	Feb. 12
Feb. 28	Missouri	Feb. 19
Mar. 1	New Philadelphia, O.	Feb. 5
Mar. 2	Kalama, Wash.	Feb. 12
Mar. 2	New Jersey	Feb. 12
Mar. 2	California	Feb. 19
Mar. 2	Wilburton, Okla.	Feb. 19
Mar. 2	Wichita, Kan.	Feb. 19
Mar. 2	Wichita, Kan.	Feb. 26
Mar. 2	Mt. Lebanon, Pa.	Feb. 26
Mar. 3	Greenville, S. C.	Feb. 19
Mar. 3	Clinton, Okla.	Feb. 19
Mar. 3	Lewisburg, W. Va.	Feb. 19
Mar. 3	Ocala, Fla.	Feb. 19
Mar. 3	St. Louis, Mo.	Feb. 5
Mar. 3	Wash., D. C.	Feb. 12
Mar. 3	Bluefield, W. Va.	Feb. 12
Mar. 3	Columbus, O.	Feb. 26
Mar. 3	Mountain View, Calif.	Feb. 26
Mar. 3	St. George, N. Y.	Feb. 26
Mar. 3	East Providence (Providence P. O.), R. I.	Feb. 26
Mar. 3	Owatonna, Minn.	Feb. 26
Mar. 3	Towson, Md.	Feb. 26
Mar. 3	Oklahoma	Feb. 26
Mar. 4	Florida	Feb. 26
Mar. 4	North Dakota	Feb. 26
Mar. 4	Mobile, Ala.	Feb. 5
Mar. 4	Ebensburg, Pa.	Feb. 19
Mar. 4	Freehold, N. J. Adv. Feb. 19 and 26.	Feb. 19
Mar. 5	North Dakota	Feb. 26
Mar. 5	Kelso, Wash.	Feb. 26
Mar. 5	New York, N. Y.	Feb. 26
Mar. 6	Brooklyn, N. Y.	Feb. 26
Mar. 9	New Jersey Adv. Feb. 19 and 26.	Feb. 19
Mar. 9	Harrisonburg, Va.	Feb. 26
Mar. 10	Hebbronville, Tex.	Feb. 26
Mar. 10	Waco, Tex.	Feb. 26
Mar. 10	St. Louis, Mo.	Feb. 19
Mar. 10	Clinton, Okla.	Feb. 19
Mar. 12	Eagle Pass, Tex.	Feb. 26
Mar. 12	Louisiana	Feb. 26
Mar. 12	North Dakota	Feb. 26
Mar. 12	Virginia	Feb. 26
Mar. 13	Pennsylvania Adv. Feb. 26.	Feb. 26
Mar. 14	Brooklyn, N. Y.	Feb. 26
Mar. 16	Illinois	Feb. 26
Mar. 16	California	Feb. 26
Mar. 16	Riverside, Calif.	Feb. 26
Mar. 16	New Jersey Adv. Feb. 26.	Feb. 26
Mar. 17	New York Adv. Feb. 26.	Feb. 26
Mar. 24	North Dakota	Feb. 26
Mar. 29	California	Feb. 19
Mar. 30	Duluth, Minn.	Feb. 12
Apr. 1	Birmingham, Ala.	Feb. 19
Apr. 1	Tuscaloosa, Ala.	Feb. 19

BUILDINGS—INDUSTRIAL

Feb. 27	Corona (Sta. Flushing), N. Y.	Feb. 19
Mar. 1	Youngstown, O.	Jan. 15
Mar. 3	Detroit, Mich.	Feb. 26
Mar. 5	Milwaukee, Wis.	Feb. 26
Mar. 12	Comstock, N. Y. Adv. Feb. 26.	Feb. 26

BUILDINGS—COMMERCIAL

Feb. 27	Zelionople, Pa.	Feb. 19
Feb. 27	Scranton, Pa.	Feb. 26
Feb. 28	Cleveland, O.	Feb. 26
Feb. 28	Lancaster, Pa.	Feb. 19
Feb. 28	Baltimore, Md.	Feb. 26
Mar. 1	Denver, Colo.	Feb. 19
Mar. 2	Lewisburg, Pa.	Feb. 5
Mar. 2	Ft. Scott, Kan.	Feb. 19
Mar. 2	Warren, O.	Feb. 26
Mar. 2	Minneapolis, Minn.	Feb. 26
Mar. 3	Kansas City, Mo.	Feb. 12
Mar. 4	Kings Park, N. Y. Adv. Feb. 12 to 26.	Feb. 12
Mar. 4	Baltimore, Md.	Feb. 19
Mar. 4	Woodhaven (branch Jamaica) N. Y.	Feb. 19
Mar. 4	Eloise, Mich.	Feb. 26
Mar. 5	New York, N. Y.	Feb. 26
Mar. 5	Hudson, N. Y.	Feb. 5
Mar. 5	Denton, Md.	Feb. 26
Mar. 6	Houston, Tex.	Feb. 26
Mar. 6	Concord, N. H.	Feb. 26
Mar. 6	Fairview, O.	Feb. 19
Mar. 6	Detroit, Mich.	Feb. 26
Mar. 7	Vancouver, B. C.	Feb. 26
Mar. 9	Shaker Heights (Cleveland P. O.), O.	Feb. 26
Mar. 9	Phila., Pa	Feb. 26
Mar. 11	Baltimore, Md.	Feb. 26
Mar. 15	Gonzales, Tex.	Feb. 19
Mar. 15	Quincy (Boston P. O.), Mass.	Feb. 26
Mar. 17	Freeport, Ill.	Feb. 5
Mar. 17	Dayton, O.	Feb. 26
Mar. 18	Wingdale, N. Y. Adv. Feb. 26.	Feb. 26
Mar. 20	Johnstown, Pa.	Feb. 19
Apr. 1	Zanesville, O.	Feb. 19
July 14	Phila., Pa.	Feb. 19

FEDERAL GOVERNMENT WORK

Feb. 27	Boat Hull—Pittsburgh, Pa. Adv. Feb. 5 to 26.	Feb. 5
Feb. 27	Stone—Wilmington, Del.	Feb. 5
Feb. 28	Barges—Vicksburg, Miss.	Feb. 5
Feb. 28	Tower—New York, N. Y. Adv. Feb. 5 to 26.	Feb. 5
Mar. 2	Paving, etc.—San Diego, Calif.	Feb. 5
Mar. 2	Wire, etc.—Memphis, Tenn. Adv. Feb. 5 to 26.	Feb. 5
Mar. 2	Rope—Memphis, Tenn. Adv. Feb. 5 to 26.	Feb. 5
Mar. 2	Repairs, etc.—Baltimore, Md.	Feb. 12
Mar. 3	Storehouse—Jefferson Barracks, Mo.	Feb. 5
Mar. 3	Pumping Units—Wash., D. C. Adv. Feb. 5 to 26.	Feb. 5
Mar. 5	Post Office—Parkersburg, W. Va.	Feb. 12
Mar. 6	Steel Hull—Phila., Pa.	Jan. 22
Mar. 6	Pipeline—Phila., Pa. Adv. Feb. 12 to 26.	Jan. 29
Mar. 9	Cable—Buffalo, N. Y. Adv. Feb. 19 and 26.	Feb. 19
Mar. 9	Boiler House—Phila., Pa. Adv. Feb. 19 and 26.	Feb. 19
Mar. 10	Dam—Mitchell, Neb.	Feb. 5
Mar. 12	Turbines—Denver, Col.	Feb. 5
Mar. 12	Barge—Wilmington, N. C. Adv. Feb. 12 to 26.	Feb. 12
Mar. 12	Steel Bars—Milwaukee, Wis. Adv. Feb. 12 to 26.	Feb. 12
Mar. 16	Post Office—Gilmer, Tex. Adv. Feb. 19 and 26.	Feb. 19
Mar. 16	Generator Unit—Buffalo, N. Y. Adv. Feb. 26.	Feb. 26
Mar. 17	Buildings—Great Lakes, Ill. Adv. Feb. 19 and 26.	Feb. 19
Mar. 17	Post Office—Kenton, O. Adv. Feb. 19 and 26.	Feb. 19
Mar. 20	Dredging—Providence, R. I. Adv. Feb. 19 and 26.	Feb. 19
Mar. 27	Dredging—Providence, R. I. Adv. Feb. 26.	Feb. 26
Mar. 28	Dredging—Charleston, S. C. Adv. Feb. 26.	Feb. 26
Apr. 8	Hangers—Pearl Harbors, H. T. Adv. Feb. 19 and 26.	Feb. 19

UNCLASSIFIED

Feb. 28	Grain Elevator—Phila., Pa.	Feb. 26
Mar. 4	Fire Alarm System—Ogdensburg, N. Y. Adv. Feb. 12 to 26.	Feb. 12
Mar. 4	Fire Sprinklers—Willard, N. Y.	Feb. 12
Mar. 5	Sanitary Works, etc.—Randalls Island (mail New York), N. Y.	Feb. 5
Mar. 6	Miscellaneous Construction, etc. —New York, N. Y.	Feb. 26
Mar. 7	Park Improvements — Ft. Worth, Tex.	Feb. 26
Mar. 11	Fire Sprinklers—Brooklyn, N. Y. Adv. Feb. 19 and 26.	Feb. 19
Mar. 17	Subway—Phila., Pa. Adv. Feb. 19 and 26.	Feb. 19
Mar. 23	Estuary Tube—Oakland, Calif.	Feb. 5
Mar. 25	Fire Alarm System—Willard, N. Y. Adv. Feb. 26.	Feb. 26
Mar. 25	Fire Sprinklers—Buffalo, N. Y. Adv. Feb. 26.	Feb. 26

MATERIAL AND EQUIPMENT

Feb. 27	Asphalt, etc. — Hamilton, Ont.	Feb. 19
Feb. 27	Lead Cables—Cleveland, O.	Feb. 26
Feb. 28	Asphalt, Cement, etc.—Detroit, Mich.	Feb. 26
Mar. 2	Tarvia—Two Rivers, Wis.	Feb. 26
Mar. 2	Road Oil and Calcium Chloride—Wausau, Wis.	Feb. 26
Mar. 3	Clam Shells—New Orleans, La.	Feb. 26
Mar. 3	Bituminous Material — Virginia	Feb. 12
Mar. 3	Tractor—Winona, Minn.	Feb. 19
Mar. 3	Grader—Jamestown, N. D.	Feb. 19
Mar. 3	Stone, etc.—Towson, Md.	Feb. 26
Mar. 4	Tractor—Onida, S. D.	Feb. 26
Mar. 4	Crushed Stone, Gravel, etc. — Baltimore, Md.	Feb. 26
Mar. 5	Road Machine—Bismarck, N. D.	Feb. 26
Mar. 5	Patrol Grader—Port Washington, Wis.	Feb. 26
Mar. 5	Graders—Bottineau, N. D.	Feb. 26
Mar. 6	Road Machines, etc.—Grand Forks, N. D.	Feb. 19
Mar. 10	Dragline Machine—Greenville, Miss. Adv. Feb. 19 and 26.	Feb. 19
Mar. 10	Bituminous Material, etc. — Albany, N. Y. Adv. Feb. 26.	Feb. 26
Mar. 18	Asphaltic Cement — Pennsylvania	Feb. 26
Apr. 1	Crane — Melbourne, Australia	Feb. 19

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Conn., North Branford (R. D. Branford) —New Haven Water Co., 100 Crown St., New Haven, C. Y. Gaillard, pres., plans new 15 m.g. reservoir to supply New Haven, to cover 1,000 acres and have 25 sq.mi. water shed, to include 700 ft. dam, 190 ft. high, with pipe line to New Haven. A. B. Hill, 100 Crown St., New Haven, consult. engr. Noted Feb. 28, 1924.

S. C., Florence—Election Mar. 20, $350,000 bonds waterworks plant, on Black Creek. Nisbet Wingfield Co., Augusta, Ga., engrs.

O., Cleveland — Soon takes bids, rebuilding 4 triple expansion engines for 250 lb. steam pressure and 250 ft. water head, four 700 hp. vertical water tube boilers with underfeed stokers and brick settings, complete, removing old boilers and revamping boiler room basement, forced draft fans, coal and ash handling equipment, water softening equipment, power piping, main switchboard and electric valve control, gages, meters, etc., $400,000. L. A. Quayle, City Hall, engr.

O., Columbus—See "Streets and Roads."

Ill., Schiller Park—See "Sewers."

Mo., Chaffee — Election Mar. 7, $55,000 bonds, waterworks, tank on tower, distribution system, etc. C. E. Smith & Co., Railway Exch., St. Louis, engrs.

Mo., Glendale—Election Mar. 14, $600,000 bonds water distribution system, booster pumps, etc. $60,000.

Mo., Kirkwood — Voted $25,000 bonds power equipment for waterworks. C. E.

Waterworks (Continued)

Smith, Railway Exch. Bldg., St. Louis, engr.

Tex., Abilene — Making plans improving and enlarging waterworks. $100,000 bond election soon. M. L. Sellers, city secy. Engineer not announced.

Tex., Denison—R. G. Gresham, city secy., making plans and takes bids in spring sediment basin. $20,000. C. E. Haydon, Denison, engr.

Tex., Giddings—Election Feb. 24, $46,000 bonds waterworks improvements. J. D. Fields, mayor.

Okla., Claremore—Plans improving waterworks. $60,000. G. Laws, city clk. Engineer not selected.

Okla., Tonkawa—Voted $80,000 bonds for dam across Chickasha River, filtration plant, pumps, settling basin, equipment, etc. Ruckel Eng. Co., Interurban Bldg., Hutchinson, Kan., engrs. Noted Feb. 12.

Calif., Newport Beach—Plans election $350,000 bonds, enlarging and extending water system.

Calif., Palo Alto — See "Streets and Roads."

B. C., Vancouver—Election Feb. 28, $1,250,000 bonds for waterworks additions. C. Brackenridge, city engr.

BIDS DESIRED

N. Y., Long Island City—Mar. 3, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Schroeder and Sylvan Places, 41st Dr., Rocky Hill Rd., North Hempstead Turnpike, Ely and 3rd Aves., 54th, 59th, 65th, 97th, 160th and 162nd Sts.

N. Y., St. George — Mar. 4, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Arden, Bismarck, Bowles, Fitzgerald, Hammersley, Kissam, Kissel, Maple, Ontario, Oswego, Richmond, Sheldon, Travis and Webster Aves., Moody, Prospect and Wygant Places, Little Clove, Mill and Willowbrook Rds., Bay and Richmond Terraces, and in grounds of Clove pumping station.

Miss., Natchez — Mar. 9, by Bd. Water Comrs., furnishing material and constructing waterworks improvements, incl. 500,000 gal. steel tank on 150 ft. tower, etc. H. Mentz, Magnolia, consult. engr.

O., Alliance — Bd. Control taking bids improving and repairing waterworks equipment. $75,000. H. Anderson, Alliance, engr.

O., Cleveland—Feb. 27, by City, furnishing and laying 15,750 ft. 36 in. lock bar or other steel mains from Division Ave. Station to West 117th St.; 11,700 ft. pipe for North Raw Water Main; 5,000 ft. 48 in. pipe in Sect. 3, West Side High Service Main. R. Hoffman, City Hall, engr.

O., Columbus—See "Streets and Roads."

Ill., Lake Forest—Mar. 16, by City Clerk, for waterworks pumps and pumping equipment; adv. E. N.-R. Feb. 26.

Wis., Phillips—Mar. 10, by City Clerk, 26,000 lin.ft. 4- to 8-in. c.i. main extensions, 32 valves, 35 hydrants, etc. $22,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs.

Minn., St. Paul—Mar. 3, by H. W. Austin, city purch. agt., one 60 in. and one 90 in. circular butterfly valves, one 48 in. one 90 in., and two 60 in. circular sluice gates, two 48 x 60 in. rectangular sluice gates. G. M. Shepard, city engr.

Mo., Kansas City — Mar. 21, by A. J. Stewart, purch. agt., City Hall, high lift pumping station, reservoir, etc., Nicholson Ave. near Monroe St. in East Bottoms. Fuller & Maitland, 600 Walnut St., engrs.; adv. E. N.-R. Feb. 26.

Calif., Oroville — Mar. 4, by Directors Thermalito Irrigation Dist., 18,615 ft. 4- to 12-in. riveted slip joint pipe with fittings, 18,800 lin.ft. trenching, backfill and hauling, distributing and installing pipe and fittings, etc. S. J. Norris, Oroville, engr.

Que., St. Donat de Montcalm—J. Thibeault, taking bids 3, 4 and 6 in. pipe, and 25,000 gal. reservoir cap. $25,000.

BIDS RECEIVED

Wash., Seattle—Bd. Pub. Wks., mains in various streets, from Argenteria & Co., 1819 Weller St., 5,260 ft. 24 in. c.i. pipe $10.30, etc., total $63,797. Engrs. est. $70,695.

CONTRACTS AWARDED

Md., Baltimore—Bd. Awards c.i. pipe and fittings, to U. S. Cast Iron Pipe Co., Burlington, N. J., $162,600; 250,000 lb. pig. lead, to N. Trotter Co., 36 North Front St., Phila. Pa., $24,425; 150,000 lb. lead substitute, to Leadite Co., 1512 Land Title Bldg., Phila., Pa. $18,285. Noted Feb. 19.

N. C., West Jefferson—Town Bd. Comrs., water supply system, to Boyd & Goforth, Charlotte. Noted Jan. 22.

Ia., Plover—City mains and hydrants, to C. W. Roland Constr. Co., 1347 8th St., Des Moines, $5,100; steel tower and tank, to Pittsburgh-Des Moines Steel Co., Tuttle and 10th Sts., Des Moines, $4,700. Bids will be received later on pumping equipment. Noted Jan. 8.

Ore., Portland — For 25,000 tons c.i. water pipe, to U. S. Cast Iron & Fdry. Co., Colman Bldg., Seattle, $126,160.

Calif., El Centro—Rein.-con. reservoir and pump house, to I. A. Thomas, El Centro, $15,920 and $11,809 respectively.

Calif., Newport Beach—For water distribution system in Corona Del Mar, to C. Fisher, 1682 4th St., Santa Monica, $404,886. Noted May 15.

Sewers

PROPOSED WORK

Mass., Needham — Bd. Selectmen plan new sewerage system and pumping station. To exceed $25,000. Barbour & Dixon, Tremont Bldg., Boston, engrs.

Fla., Titusville—Election Mar. 10, $125,000 bonds for sewers in various streets. J. P. Wilson, city clk.

Ala., Florence—See "Streets and Roads."

O., Columbus—See "Streets and Roads."

O., Kenmore—Takes bids in spring storm sewer incl. main sewer to be 6,300 ft. long, 72 in. diam. in Central Dist. $141,000. D. P. Dowling, Kenmore, engr.

Indiana — Cities of East Chicago, Hammond and Whiting making plans for sewage disposal plant. Randolph-Perkins Co., 1210 First Natl. Bank Bldg., Chicago, Ill., and R. Seely, Hammond, engrs.

Ill., Alton—See "Streets and Roads."

Ill., Niles (Chicago P. O.)—Making plans sewerage system. $210,000. Consoer, Older & Quinlan, Inc., Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.

Ill., Park Ridge—Making plans South Side sewerage system. $250,000. Consoer, Older & Quinlan, Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.

Ill., River Grove—Making plans Southwest Side sewerage system. $60,000. Consoer, Older & Quinlan, Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.

Ill., Schiller Park—Making plans waterworks and sewerage system. $40,000. Consoer, Older & Quinlan, Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.

Wis., Kewanee—Plans election $25,000 bonds extending sewers in various streets. J. W. Cain, city clk.

Ia., Boone—Making plans sewage disposal plant. $75,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs.

Ia., Iowa Falls—Plans 0.5 mi. extension to main sewer, and disposal plant. $100,000. J. O. Gregg, city clk.

Minn., Duluth—W. H. Tischer, city comr., takes bids about Apr. 25, for 5,194 ft. 8 and 10 in. sewer in Lincoln Park Blvd., 26th Ave. west from 15th to 14th alley and 26th Ave. from alley to Lincoln Point. $27,347. J. Wilson, city engr.

Mo., Chaffee — Election Mar. 7, $30,000 bonds complete sanitary sewerage system, disposal tank, etc. C. E. Smith & Co., Railway Exch., St. Louis, engrs.

Mo., Kansas City—Making plans sewers in Blue Valley and Goose Neck Rivers. Projects to be let separately. $5,500,000. E. M. Stayton, Black & Veatch, 700 Mutual Bldg., engrs.

Mo., Owensville—Election Apr. 7, $50,000 bonds, complete sanitary sewerage system, etc. Alexander Eng. Co., Woodruff Bldg., Springfield, engrs.

Tex., Conroe — Election Mar. 6, $50,000 bonds, sewerage system and disposal plant. C. T. Darby, mayor.

Tex., Crowell—J. E. Kimsey, city secy. making plans and soon takes bids new sewerage system. $50,000 bonds voted. F. E. Devlin, Bitting Bldg., Wichita, Kan., engr.

Tex., Floresville—Wilson Co. had revised plans prepared and soon takes bids asphalt macadam surfacing 9.43 mi. State Highway 81, Federal Aid Project 440-B, 18 ft. $184,400. F. E. Hess, Box 277, co. engr. Noted Feb. 5.

Calif, Dos Palos—Voted 30,000 bonds, for sewerage system. Noted May 8.

Calif., Palo Alto — See "Streets and Roads."

Calif., Porterville—Plans election $50,000 bonds, for sewage disposal plant. F. Pease, city engr.

Que., Granby—Plans 7,000 ft. sewers in various streets. $30,000. Engineer's name withheld.

BIDS DESIRED

Conn., Hartford—Mar. 3, by E. M. Dahill secy. Bd. Contract & Supply, City Hall, 2,375 ft. 10- to 20-in. sewers in Gilman and Douglas Sts. R. N. Clark, city engr.

Md., Baltimore—Mar. 4, by Bd. Awards, 1,850 ft. 48 and 54 in., 760 ft. 36 in. concrete, and 1,270 ft. 15 in. vitr. sanitary sewer, in Storm Water Contr. 82. B. L. Crozier, City Hall, highways engr.

Ga., Macon—Mar. 13, by Mayor and Bd. Aldermen, concrete storm water drains, etc., S. W. Contr. 100. Norton, Bird & Whitman, Baltimore and Macon, consult. engrs.; adv. E. N.-R. Feb. 26.

Miss., Columbia—Mar. 3, by Mayor and Bd. Aldermen, 1,300 ft. 42 in. rein.-con. or double strength vitr. clay and 300 ft. 12 in. vitr. terra cotta sewers in various streets, incl. sewer outfall walls, 5 manholes, etc. H. A. Mentz, Magnolia, engr.

O., Columbus — Mar. 7, by Bd. Comrs. Franklin Co., 8,930 ft. of 8 in. vitr. sewer, etc., in Sewer Dist. Clinton 2, Contr. 2, $20,000. 2,525 ft. 6 and 8 in. c.i. water mains in Sewer Dist. Clinton 2, Contr. 54, $8,000, 1,150 ft. 6 in. c.i. water mains in Sewer Dist. Franklin 4, Contr. 55, $2,000. Noted Nov. 27.

O., Columbus—See "Streets and Roads."

Ind., East Chicago—Mar. 18, by Bd. Pub. Wks., for Alder St., sewage pumping station. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, consult. engrs; adv. E. N.-R. Feb. 26.

Wis., Phillips — Mar. 10, by City Clerk 15,000 lin.ft. 8 in. vitr. sewer tile, 11,200 ft. 10- to 15-in. pipe in various streets, incl., 71 manholes, 1 storm weir, 1 circular Imhoff tank, etc. $40,000. Druar & Milinowski, 500, Globe Bldg., St. Paul, Minn., engrs.

Ia., Correctionville — Mar. 12, by H. B. Schenckloth, city clk., sanitary sewerage system and disposal plant, incl. 23,000 lin.ft. 8- to 12-in. pipe, 75 manholes, Imhoff tank and sludge beds. $40,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs. Noted Dec. 18.

Calif., Los Angeles—Mar. 9, by Supervs. Los Angeles Co., for Drainage Impvt. Dist. 11, 218,000 cu.yd. excav., 47,400 cu.yd. concrete, 4,750,000 lbs. steel, 30,540 ft. 6- to 10-in. vitr. or concrete pipe, 22,430 ft. 24- to 72-in. rein.-con. pipe, 6,400 sq.yd. macadam paving, 6,000 cu.yd. sand and gravel, 40,000 lin.ft. treated timber piling, alternative to be used at option of county if required, etc. To exceed $1,000,000. J. E. Rockhold, Los Angeles, co. surv.

Calif., Tulare — Taking bids Elrod disposal plant, remodeling present Cameron tanks and constructing aeration chambers, etc., 46,000 lbs. reinforcing, 75 lin.ft. corrugated or vitr. pipe, 950 lin.ft. 4- and 8-in. vitr. or concrete pipe, etc., also furnish mechanical equipment in connection with above. J. P. Williams, city engr.

BIDS RECEIVED

Calif., Firebaugh—For 8,371 lin.ft. 6 and 10 in. vitr. clay pipe, 318 wye branches for house connections, sewage disposal plant, Imhoff tank and dosing chamber, centrifugal pumps with electric motors, etc., from Frederickson & Watson, Cory Bldg., Fresno, approximately $34,000. Noted Oct. 16.

CONTRACTS AWARDED

Md., Baltimore—Bd. Awards, 7,500 ft. 8- to 48-in. sewers in Storm Water Contr. 80, to P. Marocco, 638 South Linwood Ave., $59,319. Noted Feb. 19.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Hogan Contg. Co., Melbourne Hotel, sewers in Oleathe Ave. Joint Sewer Dist. $18,778, Glaise Creek Sewer Dist. 16, $10,441; to Grant & Meinert, c/o Municipal Contractors Assn., Fullerton Bldg., sewers in Rock Creek Sewer Dist. 9, $11,457. Noted Jan. 22.

Tex., Shamrock—Paving various streets, 3 in. brick on 5 in. concrete, and Texaco asphalt filler, to Panhandle Constr. Co., Lubbock, $37,396. Noted Jan. 29.

Ore., Reedsport—City Council, sewerage system, to Inland Constr. Co., Ry. Exch. Bldg., Portland, $39,347. Noted Sept. 25.

Calif., Los Angeles—Bd. Pub. Wks., for Sect. 25, North Outfall sewer, to R. A. Wattson, 1026 McCadden Pl., 4,837 lin.ft. 5 ft. semi-elliptical concrete sewer, incl. curves, transitions, manholes, etc., $74,500, c.i. pipe, rein.-con. pipe support, piers, etc, $12,000.

Calif., Los Angeles—Bd. Pub. Wks., Sect. 1, Arroyo De La Sacatela storm drainage system, also street work, to Atkinson-Spicer Co., Chapman Bldg., $1,279,500 and $26,720 respectively. Noted Feb. 19.

Waste Disposal

PROPOSED WORK

Ont., Birch Cliff—Scarboro Twp., 1361 Kingston Rd., Toronto, having plans prepared concrete and brick garbage incinerator. $30,000. C. E. Fraser, 1361 Kingston Rd., Toronto, twp. engr.

Waste Disposal (Continued)

BIDS DESIRED

O., Lakewood (Cleveland P. O.)—Mar. 9, by City, E. A. Wiegland, mayor, 50 ton incinerator. $85,000. E. A. Fisher, City Hall, engr.

Mo., Kansas City — Mar. 10, collection and disposal of garbage and rubbish for 10 year period. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs.

Bridges

PROPOSED WORK

O., Ashtabula—Dept. Highways and Pub. Wks,, Columbus, having sketches made high level bridge on Main St., here. $600,000. Address State Highway Engineers, Columbus, headed by A. Schlessinger.

O., Lakewood (Cleveland P. O.) — City and New York Central R.R., City Hall, take bids in spring, concrete viaduct over Highland Ave. $300,000. E. A. Fisher, City Hall, engr. Noted July 31.

Tenn., Columbia—Maury Co., takes bids about Mar. 20, rein.-con. bridge over Duck River and several small concrete bridges in various parts of county. $35,000. B. Wilkes, Court House, supt. highways.

Texas — Anderson Co. (Palestine) and Freestone Co. (Fairfield) making plans 1,250 ft. steel truss bridge, to have one 225 ft. steel and two 80 ft. pony trusses, and 800 ft. concrete or timber pile trestle approach and earth fill approach across Trinity River. $200,000. E. W. Davis, co. engr.

Texas and Louisiana — Orange Co. (Orange), Tex., and Louisiana State Hy. Dept., Baton Rouge, made plans 425 ft. steel bridge consisting of one 300 ft. wing and 125 ft. simple spans, 4 panels of timber trestle approaches on Orange Co. side, over Sabine River. $250,000. J. E. Johnson, Orange, Tex., engr.

Tex., Albany—See "Streets and Roads."

Tex., Alpine—See "Streets and Roads."

Tex., Carthage—See "Streets and Roads."

Tex., Henrietta—See "Streets and Roads."

Tex., Palestine — Anderson Co. making plans 395 ft. steel and concrete bridge with two 80 ft. pony and one 225 ft. through steel trusses, etc., over Trinity River. $200,000. E. W. Davis, Palestine, engr.

Tex., San Antonio—Takes bids after Feb. 27, 145 ft., steel and concrete bridge across San Antonio River at 4th St. $40,000. Terrell Bartlett Engineers, Calcasieu Bldg., engrs. I. Ewig, city engr.

Wash., Hoquiam — Making plans double leaf bascule bridge on Simpson Ave. $240,000. M. M. Caldwell, Central Bldg., Seattle, engr.

Ont., Lambton Mills — York Co., 57 Adelaide St. E., Toronto, plans 300 ft. bridge, 48 ft., at Dundas St., here. $450,000. R. W. Phillips, 57 Adelaide St. E., Toronto, clk.

Ont., Toronto—Plans rebuilding Huntley St. Bridge, 250 ft. long, 66 ft. wide, with concrete and steel. $127,000. R. C. Harris, city engr.

BIDS DESIRED

Virginia—See "Streets and Roads."

Louisiana—Mar. 31, by State Hy. Dept., Reymond Bldg., Baton Rouge, Pearl River Bridge, Federal Aid Project 126, Sect. D, Tammany Parish, on New Orleans-Mississippi Highway. W. B. Robert, state engr.; adv. E. N.-R. Feb. 26.

Tenn., Nashville — Mar. 6, by Bd. Pub. Wks., rein.-con. viaduct over railroad tracks at Chestnut St., for City and Louisville & Nashville R.R. Co. $30,000. W. W. Southgate, city engr. Noted Feb. 12.

O., Columbus—See "Sewers."

O., Dayton — Mar. 17, by Comrs. Montgomery Co., one 50 ft. span rein.-con. arch highway bridge, 120 ft., on Harshmanville Rd. $25,000. W. O. Pease, Dayton, co. surv.

Illinois—Mar. 16, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, two 39 ft. and one 31 ft. span rein.-con. girder bridge, on Route 1, Sect. 37-V, Johnson Co.; one 50 ft. span rein.-con. girder bridge, one 140 ft. span rein.-con. substructure and three 50 ft. and two 35 ft. rein-con. girder spans, Route 8, Sect. 44-C, Knox Co.; two 150 ft. span rein.-con. substructure and ten 50 ft. rein.-con. girder spans, Route 9, Sect. 39-D, Fulton Co.; six 10 ft., two 9 ft. and nine 12 ft. rein.-con. culverts and one 25 ft. rein.-con slab bridge, Route 9, Sect. 46-B, Vermilion Co.; one 30 ft., one 50 ft. and three 40 ft. rein.-con. girder, and one 20 ft. rein.-con. slab bridges, one 170 ft. rein.-con. substructure and twenty-five 50 ft. rein.-con. girder spans, Route 12, Sect. 1-B, Lawrence Co.; two 63½ ft. span rein.-con. girder bridge, Route 19, Sect. 86-D, Cook Co.; four 45 ft. span rein.-con. girder bridge, Route 22, Sect. 15-B, Will Co.; two 20 ft. span rein.-con. bridge, and one 14 ft. rein.-con. slab extension, Route 27, Sect. 15-B, Carroll Co.; two 45 ft. span rein.-con. girder bridge, Route 27, Sect. 16-B, Ogle Co.; one 120 ft. span rein.-con. substructure, five 30 ft. rein.-con. girder spans and approaches and five 30 ft. span rein.-con. girder bridge, Route 4, Sect. 29-U, Bureau Co.; one 30 ft., one 40 ft. and one 60 ft. span rein.-con. girder bridge, Route 45, Sect. 1-B, La Salle Co.; two 168 ft. span steel superstructure, 476,930 lb. structural steel, Route 5, Sect. 15-C, Winnebago Co., one 37 ft. span steel superstructure, 205,770 lb. structural steel, Route 7, Sect. F-2, Will Co.; one 140 ft. span steel superstructure, 154,350 lb. structural steel, Route 8, Sect. 44-C, Knox Co.; two 150 ft. span steel superstructure, 320,500 lb. structural steel, Route 9, Sect. 39-C, Fulton Co., one 170 ft. span steel superstructure, 205,770 lb. structural steel, Route 12, Sect. 1-C, Lawrence Co.; one steel superstructure, 118 lb. structural steel, Route 4, Sect. 29-U-1, Bureau Co.; seven 55 ft. span plate girder bridge, 621,560 lb. structural steel, and one 6 ft. rein.-con. culvert extension, Route 46, Sect. A-2, Cook Co. F. T. Sheets, ch. engr.

Wis., Manitowoc—Mar. 2, by City, A. H. Zander, city clk., for preliminary plans and estimates for double leaf bascule bridge over Manitowoc River, at 8th St. $200,000. Engineer not selected. Noted Feb. 19.

Tex., Anderson—Mar. 3, by O. A. Seward, Jr., engr. Grimes Co., Box 271, bridges on Plantersville Rd. Dist., $40,000; 8,193 ft. bridge lumber 672 ft. creosoted timber piling, etc., for bridges on Stoneham Rd. Dist., $30,000.

Tex., Eagle Pass — See "Streets and Roads."

Oklahoma—Mar. 3, by State Hy. Dept., Oklahoma City, five 211 ft. spans, 2,100 ft. steel bridge, 67,000 tons reinforcing near Bedford, Pawnee Co. $240,000. J. M. Page, highway engr. Noted Feb. 19.

California—Mar. 16, by State Hy. Comn., Sacramento, one 200 ft. fixed steel, one 124 ft. steel bascule, and eight 26 ft. rein.-con. girder approach span bridge, 24 ft., over San Joaquin River, near Mossdale, San Joaquin Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

California—Mar. 9, by State Hy. Comn., Sacramento, one 36 ft., two 42 ft. and two 20 ft. span, rein.-con. girder bridge over Salt Creek, about 6 mi. south of Antier, Shasta Co. R. M. Morton, Sacramento, highway engr.

BIDS RECEIVED

Tex., Barstow—Ward Co., 193 ft. steel truss and concrete girder bridge over Pecos River, 36,398 lb. reinforcing, etc., from Brown-Abbott Co., Inc., Wilson Bldg., Dallas, $28,998. Engrs. est. $25,000. Noted Feb. 5 under "Streets and Roads."

Calif., Eureka—F. M. Kay, clk. Humboldt Co., Feb. 11, rein.-con. bridge over Van Duzen River at Bridgeville, from Mercer-Fraser Co., Eureka, $19,079; 2 rein.-con. bridges over Van Duzen River at Blackburn Grade Cutoff, 1 between Sta. 26 and 31, and other between Sta. 150 and 156, from McKay-Schruth Eng. Co., Railway Bldg., Los Angeles, $23,347 each. Noted Feb. 5.

CONTRACTS AWARDED

Fla., Sarasota—Sarasota Co., 55 ft. clear opening steel draw span bridge at Blackburn Point, 60 lin.ft., concrete trestle, 560 lin.ft. concrete piles, 23,000 cu.yd. dredged embankment, 3,500 lin.ft., cypress bulkhead, etc., to Champion Bridge Co., (H. C. Quinn, southern representative), Ft. Lauderdale, $45,000.

Fla., Sarasota—Sarasota Co., 55 ft. clear opening steel draw span bridge at Stickney Point, 11,000 cu.yd. dredged embankment, 140 lin.ft. concrete trestle, 560 lin.ft. concrete piles, 35 cu.yd. concrete and 800 lin.ft. cypress bulkheads, etc., to Champion Bridge Co., (H. C. Quinn, southern representative), Ft. Lauderdale, $40,000. Noted June 5.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 36, Sect. 8-B, Adams Co., to A. Olson Constr. Co., Waterloo, Ia., $28,309; and bridge on Route 36, Sect. 8-C, Adams Co., to Vincennes Bridge Co., Vincennes, Ind., $14,975. Noted Nov. 20.

Missouri—State Hy. Dept., Jefferson City, to Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, nineteen 20 ft. rein.-con. slab spans, etc., over overflow of Medicine Creek, $27,369, one 80 ft. steel truss span, four 20 ft. I-beam spans, etc., over Medicine Creek, $15,728, one 80 ft. steel truss and four 30 ft. I-beam spans, etc., over Medicine Creek D. D., $19,496, (state to furnish material on above), two 10 ft. rein.-con. slab spans, etc., over stream, $2,173, all Livingston Co.; to Thomas & Johnson, Doniphan, three 20 ft. and four 24 ft. rein.-con. slab spans, etc., over stream, Shannon Co., $16,598; to A. A. Davis, Gr. Exch., Oklahoma City, Okla., one 80 ft. rein.-con. arch span, etc., over Bear Creek, $10,420, one 20 ft. rein.-con. arch span, etc., over Ervin Creek, $3,223, both Polk Co.; to J. P. Harlin, West Plains, three 35 ft. rein.-con. deck girder spans over Piney Creek, $6,507, three 18 ft. rein.-con. slab spans, etc., over Culp Branch, $3,436, both Oregon Co.; to F. T. O'Dell, New London, one 80 ft. steel truss span, etc., over Sugar Creek, Lewis Co., $12,641; to N. A. Christy, Warsaw, one 130 ft. steel truss span, etc., over Bear Creek, Cedar Co., $8,813. Noted Feb. 19.

Tex., Brownsville—W. O. Washington, engr. Cameron Co., 300 ft. steel and concrete bridge across Arroyo Colorado, to Dodds & Wedegartner, San Benito, $57,436. Noted Feb. 5.

Tex., Seymour—See "Streets and Roads."

Wash., Tacoma—Comrs. Pierce Co., 371 ft. span bascule type, steel bridge, 20 ft., with 6 in. concrete floor, across Puyallup River, at Meridian St., to Puget Sound Bridge & Dredging Co., Central Bldg., Seattle, $77,200. Engrs. est. $82,000. Noted Jan. 29.

Dams

PROPOSED WORK

Okla., Tonkawa—See "Waterworks."

Idaho, Lewiston—Plans election $1,200,000 bonds, for dam across Clearwater River, 4 mi. above confluence of Clearwater and Snake Rivers; also hydro-electric power plant to develop power from above dam.

CONTRACTS AWARDED

B. C., Vancouver — British Columbia Electric Ry. Co. Ltd., 425 Carroll St., 1,000 ft. dam, 62 ft. high, 400 ft. at base, at Alowette Lake, 150,000 cu.yd. earth fill, to Pacific Engineers, Ltd., 744 Hastings St. W., $300,000.

Railways

PROPOSED WORK

Pennsylvania—Cambria & Indiana R.R., 260 South Broad St., Phila., Pa., takes bids about Apr. 13, 5 mi. railroad to Melva Coal Co. holdings, also bridge over grade at Ebensburg. C. H. Jenks, Ebensburg, ch. engr.

Oklahoma — Oklahoma R.R. Co., Terminal Bldg., Oklahoma City, made plans 2 new sub stations, new terminal station, 1.5 mi. grade revision and new automatic block signal system, in Guthrie. $100,000. G. B. Treat, ch. engr.

CONTRACTS AWARDED

Texas—Turning Basin Navigation Dist., H. L. Washburn, aud. Harris Co., Houston, 3,000 ft. railroad to connect main line of railroad to proposed site grain elevator, in Houston, to W. A. Smith, Electric Bldg., Houston, $20,000.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Mass., Barnstable — Commonwealth of Massachusetts, State House, Boston, plans dredging in Lewis and West Bays, here. $25,000 or more. W. F. Williams, Dept. Pub. Wks., Boston, comr.

Mass., Harwich — Commonwealth of Massachusetts, State House, Boston, plans dredging in Herring River and dredging and jetty work in Witchmere Harbor, here. $25,000-$30,000. W. F. Williams, Dept. Pub. Wks., Boston, comr.

Ia., Marengo—D. D. 10, c/o Clerk Marengo Co. making preliminary plans straightening Bear Creek and building levee, drainage ditches, etc. $20,000.

Neb., Lincoln—See "Unclassified."

Texas — Medina Co. (Hondo), Atascosa Co. (Jourdanton) and Bexar Co. (San Antonio) election Apr. 1, $2,500,000 bonds for 43,000 acres irrigation. C. W. McNear Co., 76 West Monroe St., Chicago, backing proposition. Address State Engineering Dept., Austin, engrs. Noted Feb. 5.

Tex., Dallas — Bois d'Arc Levee Dist., Kirby Bldg., c/o W. P. Dumas, atty., soon takes bids new levee district in Dallas Co. $250,000 bonds voted. T. C. Forrest, Jr., Waxahachie, engr. Noted Jan. 29.

Nev., Carson City—Plans election $245,000 bonds, constructing approximately 50 mi. drainage canals, for Truckee-Carson Irrigation Dist.

Excavation, Drainage, Irrigation, Levees (Continued)

BIDS DESIRED

Ill., Jacksonville — Mar. 3, J. F. Steinberg, E. Roegge and J. W. Duvendack, comrs. Willow Creek D. D., Morgan Co., enlarging main ditch, Blue Pond Lateral Ditch and West, East and South Laterals, 115,543 cu.yd. excav. and three 30 in. corrugated iron sluiceways with automatic gates. Jacksonville Eng. Co., Jacksonville, engrs.

Ia., Pocahontas — Mar. 17, by Bd. Supervs. Pocahontas Co., completing D.D. 121, 14,041 lin.ft. 14- to 30-in. tile, etc. R. A. Johnson, co. aud.

Okla., Marlow — Mar. 20, by Clerk Stephens Co., straightening Little Beaver Creek, 7.5 mi. southwest of Grady Co. line, to reclaim 2,600 acres, 370,000 cu.yd. excav., 68 cu.yd. rein.-con. for bridge abutments, for Little Beaver D.D. 1. $40,000. H. J. Wilkins, 227 West Grand St., Oklahoma City, engr.

Calif., Los Angeles—See "Sewers."

CONTRACTS AWARDED

Fla., Moore Haven—Bd. Supervs. Diston Island D. D., Glades Co., 800,000 cu.yd. earth and 200,000 cu.yd. marl excav. in main canals, 100,000 cu.yd. earth excav. for dykes, 12 mi. 6 x 12 ft. lateral canals, 60 mi. old lateral canals deepened and widened, to Walb Constr. Co., La Grange, Inc., $174,600. Noted Nov. 13.

Fla., St. Petersburg — Dredging Bayboro Harbor, to Duluth Superior Dredging Co., ft. of 45th Ave., Duluth, Minn., $141,790. Noted Dec. 18.

La., Shreveport—Caddo Levee Bd., excavation for 4½ mi. channel connecting Dough Slough and Cash Point Canal, to Douglas, Buchanan & Crow, Merchants Bldg., $30,000.

Okla., Marlow — Rush Creek D.D. 3, Grady Co., dredging and straightening portion of Rush Creek to reclaim 800 acres, 245,000 cu.yd. excav., etc., to Stephens Co. Constr. Co., Marlow, $34,719. Engrs. est. $36,000.

Calif., Los Angeles—For 126,400 cu.yd. cut on Beacon St., to Channel Constr. Co., Bank of Italy Bldg., $62,370.

Streets and Roads

PROPOSED WORK

Massachusetts — Dept. Pub. Wks., Div. Highways, Boston, plans extending Lynn Fells Parkway from Bellevue Ave. in Melrose to Lynn. To exceed $25,000. W. F. Williams, comr.

Mass., North Attleboro—Plans improving various streets. $38,900. W. W. Staples, supt. Dept. Highways. Engineer not selected.

N. Y., Schenectady—Made plans widening and granite block repaving State St. between Lafayette and Erie Sts. $250,000. G. Howard, city engr.

Md., Baltimore — Making plans sheet asphalt paving Sequoia, Dolfield, Wabash and Dukeland Aves. $40,000, Lancaster and Wolfe Sts. $65,000, Highgate Dr., Lyndhurst Rd., Longwood, Prestman, Presbury and Rosedale Sts., Mayfield, Bryant and Whittier Aves. $120,000; macadamizing 12 streets in new development called Homeland, $160,000. S. Rowland, acting chn. Paving Comn., 210 East Lexington St.

North Carolina — State Hy. Comn., Raleigh, **(S. P. means State Project)** making plans concrete or asphaltic paving 6.523 mi. S. P. 161, 18 ft., Nash Co. $206,000, 6.25 mi. S. P. 297, 18 ft., Wilson Co. $198,000, 10,768 mi. S. P. 215, 16 ft., Craven Co. $303,000, 5.925 mi. S. P. 331, Columbus Co., 18 ft. $189,000, 12.61 mi. S. P. 720-C, 16 ft. $354,000, 9.6 mi. S. P. 660, 18 ft. $304,000, 16.965 mi. S. P. 915, Cherokee Co. $325,000; grading, etc. 6.568 mi. S. P. 487-A, Wake Co. $46,000, 10.194 mi. S. P. 824, Cleveland Co. $70,000; grading and topsoiling 11.78 mi. S. P. 581, Randolph Co., $82,000. C. M. Upham, Raleigh, engr.

Fla., Eagle Lake—Election Mar. 3, $80,000 bonds paving various streets. D. M. Delk, city clk.

Fla., New Smyrna—Voted $320,000 bonds paving various streets. M. Patton, city mgr.

Fla., Sarasota — Sarasota Co., returned all road paving proposals to bidders. Will readvertise. C. S. Wadsworth, Sarasota, co. engr. Noted Dec. 18.

Ala., Florence — Plans surfacing, etc. various streets, probably asphalt, also storm and sanitary sewers in various parts of city.

Ala., Decatur — City Clerk takes bids about May 1, asphalt on concrete surfacing 5th Ave. W., Davis and Line Sts. $50,000. Address city engineer.

Miss., Pass Christian — Making preliminary plans grading, hard-surfacing, etc. various streets. $25,000.

Miss., Ripley — Tippah Co. election in March, $300,000 bonds, constructing various roads.

Miss., Woodville—Wilkinson Co., making preliminary plans grading and gravel surfacing 30 mi. Woodville-Louisiana Rd., Ft. Adams, Lower Natchez, and Perry Creek Rds. Plans election $100,000 bonds for same.

O., Akron — Summit Co. takes bids in spring, hardsurfacing 1.1 mi. Swartz Corners-Turkey Foot Rd., $33,000; probably macadam paving 0.7 mi. South Main St., $25,000; improving 0.72 mi. Barberton-Greenwich Rd., $60,000; and 1.8 mi. Cuyahoga Falls-Magadore Rd., $63,000; brick, concrete or macadam paving 2.58 mi. Richfield-Hudson Rd., $111,000, all foregoing 14 ft.; brick paving 0.68 mi. Kenmore-Magadore Rd., 16 ft., $68,000; slag gravel surfacing 0.12 mi. East Akron-Brimfield Rd., $25,000, 2.73 mi. Monroe Falls-Kent Rd. $27,500, and 4.3 mi. Clinton-Cornet Rd. $48,000, all foregoing 14 ft. R. E. Willems, city engr.

O., Alliance—Bd. Control takes bids in spring improving Overlook Dr. $31,000, and Milton St. $81,000, property owners to appropriate $57,944 toward cost of latter project. H. Anderson, Alliance, engr.

O., Cleveland — Cuyahoga Co., plans brick paving State Rd., $398,000; and 3 mi. St. Clair Ave., $609,000. F. Lander, Court House, engr.

O., Cleveland Heights (Warrensville P. O.)—L. Heister, 730 Bulkley Bldg., Cleveland, making plans and takes bids in spring grading, laying sidewalks, sewers and water mains in Cedar and Brainard Rds., here. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Columbus — Making plans grading, laying water services and sewer connections, and paving 3,696 ft. Chapel St., Linden, Myrtle and Hinman Aves., 24 ft., brick $74,125, asphalt $60,502; 1,359 ft. Capitol St., alleys north Wilbur and 2nd Aves. and 2nd alley west of Galloway Ave., 20 ft., brick $24,927, asphalt $22,091; 12,098 ft. Broad St., 60 ft., asphalt $81,280; 909 ft. Gay St., 19.5 ft., asphalt $15,261; 913 ft. alley north of Rich St., 30 ft., brick $21,754, concrete $10,234; 373 ft. Hudson St., 36 ft., brick $6,043, asphalt $4,497; 3,381 ft. Reinhard Ave., 30 ft., brick $52,110, asphalt $40,442. R. H. Simpson, city engr.

O., Lisbon—Columbiana Co. takes bids in spring, grading and paving 3 mi. East Liverpool-East Palestine Rd., 34 ft. $30,000. L. C. Kirk, Lisbon, engr.

O., Medina—Takes bids in spring, resurfacing East Washington St. $28,000, and West Liberty St. $26,000. I. R. Ault, Medina, engr.

Ind., Bloomington—Monroe Co. plans concrete paving 13,200 sq.yd. Shields Rd. $25,000. H. Chestnut, Bloomington, engr.

Ind., Indianapolis—Marion Co. plans concrete paving 15,206 sq.yd. Kassebaum Rd. $56,800; 17,730 sq.yd. Williamson Rd. $54,295, 28,406 sq.yd. Fitch Rd., $116,327, 25,555 sq.yd. McGregor Rd. $82,437, 16,938 sq. yd. Beasley Rd. $54,077; asphaltic macadam paving 22,704 sq.yd. Esmon Rd. $77,000; asphaltic concrete paving 26,716 sq.yd. Duval Rd. $97,013. G. Schmidt & Co., 1407 Fidelity Trust Bldg., Indianapolis, civil engr.

Ind., Vincennes—Knox Co. plans grading and crushed stone surfacing 5.324 mi. Borgenmeier Rd., 24 ft. $53,353. W. D. Hanlon, Vincennes, engr.

Ind., Terre Haute — Vigo Co. plans concrete paving 25,344 sq.yd. Sherburne Rd. $62,512. R. E. Givens, Terre Haute, engr.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Dec. 17, grading Route 33, Sect. 3-A, Jasper and Crawford Counties. F. T. Sheets, ch. engr. Noted Dec. 4.

Ill., Alton—City Clerk takes bids about Mar. 11, 6 in. rein.-con. surfacing 828 sq.yd. Augusta St., $3,718, 6 and 7 in. rein.-con. surfacing 2,058 sq.yd. Pearl and Osage Sts., $8,857; vitr. brick on concrete surfacing 9,171 sq.yd. Brown St., $43,106, 9,230 sq.yd. Burton St., Evergreen, Park and Worden Aves. $43,920, 1,300 sq.yd. Hunter Court $5,010, 1,640 sq.yd. Sidney St. $7,794, 1,943 sq.yd. Sanford St. $9,084; sanitary sewers in Hunter Court Sanford Ave. and Sidney St., $5,172. J. E. Schwaab, City Hall, engr.

Ill., Dwight — Making plans paving various streets. $30,000. Consoer, Older & Quinlan, Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.

Ill., Edwardsville—Takes bids about Mar. 10, grading, curbing, guttering, sidewalks and concrete paving, Myrtle Ave. Dist. $31,000. Sheppard & Morgan, Edwardsville, engrs.

Ill., Madison—Takes bids in April or May, grading, curbing and 7 in. concrete paving 4,360 sq.yd. East 3rd St. Sheppard & Morgan, Edwardsville, engrs. Noted Aug. 21.

Ill., Morris—Making plans paving various streets. $170,000. Consoer, Older & Quinlan, Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.

Ill., Northbrook — Making plans paving various streets. $85,000. Consoer, Older & Quinlan, Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.

Ill., Tishilwa — Making plans paving various streets. $35,000. Consoer, Older & Quinlan, Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.

Wis., Appleton—E. L. Williams, city clk., made plans and soon takes alternate bids two course rein.-con., vitr. brick, sheet asphalt, vibrolithic or Warrenite paving 60,000 sq.yd. Cherry, Richmond, Lawe, Meade, John, Lawrence, Drew, Bateman, Ida and Appleton Sts. To exceed $25,000. R. M. Connelly, City Hall, engr.

Wis., Green Bay—W. L. Kerr, city clk., soon takes bids improving St. Clair, St. George, Allard, Cass, Cedar, Eliza, Jefferson, Quincey, Roosevelt, Stuart and Chestnut Sts., 15,000 cu.yd. excav., 26,355 ft. Combination curb and gutter, 40,313 sq.yd. rein.-con., vitr. brick, sheet asphalt, asphaltic concrete, Warrenite and vibrolithic concrete paving. A. E. Kringel, City Hall, engr. Noted Jan. 1.

Wis., Manitowoc—A. H. Zander, city clk., soon takes bids grading and rein.-con. paving 12,798 sq.yd. New York Ave., 3,561 sq.yd. South 14th St., and 25,625 sq.yd. Marshall St. To exceed $25,000. F. Alter, City Hall, engr. Noted Jan. 1.

Ia., Madrid—Plans surfacing, etc., 10 to 15 blocks various streets. $40,000-$50,000. W. E. Buell & Co., 305 Davidson Bldg., Sioux City, engrs.

Ia., State Center — Plans grading, curbing, guttering and concrete, brick or asphaltic concrete paving approximately 10,000 sq.yd. various streets. Brown & Cook, Ottumwa, engrs.

Minn., Hibbing — Plans probably one course concrete paving 2 mi. various streets. $60,000. J. R. Rose, city engr.

Kan., Pittsburg — Made plans grading, brick on concrete, asphalt on concrete or asphaltic concrete surfacing Carlton, 18th., Washington, Joplin, Williams, Olive, Jackson, Short, 2nd, 5th and 6th Sts. L. D. Cornelius, city engr.

Kan., Pittsburg—Making plans re-paving and widening Bway. $50,000. L. D. Cornelius, Pittsburg, engr.

Kan., Wichita—Soon takes bids grading and surfacing 7 blocks various streets. $50,000. P. L. Brockway, City Bldg., engr. Noted Dec. 4.

S. D., Vermilion — Plans 50,000 sq.yd. various streets. $175,000. C. I. Vaughn, city aud.

Mo., Clayton — St. Louis Co. making preliminary plans grading, curbing and macadam or concrete paving 1.125 mi. Hanley Rd., 30 ft. $75,000. Keck Surveying Co., 721½ Chestnut St., St. Louis, engrs.

Ark., Little Rock—Takes bids about Mar. 1, improving roads in Dists. 404 and 405, 10,000 cu.yd. excav., 10,000 ft. curb and gutter, 12,000 sq.yd. asphalt, Warrenite or concrete surfacing. $65,000. A. M. Lund, Southern Trust Bldg., engr.

Tex., Albany—Shackelford Co. takes bids after Mar. 1, grading and bridging 12.81 mi. road from Albany to Stephens Co. line, State Highway 1A, Federal Aid Project 6. $75,000. J. E. Pirie, Albany, engr Noted Feb. 27.

Tex., Alpine—Brewster Co., soon takes bids grading and bridging 5.13 mi. State Highway 3, Federal Aid Project 378-E, 26 ft. $49,000. A. L. White, Alpine, co. engr.

Tex., Beaumont—Election Feb. 28, $150,000 bonds paving various streets. R. C. Black, city engr. Noted Jan. 29.

Tex., Carthage—Panola Co. making plans grading, gravel surfacing and bridging 14 mi. State Highway 8, 16 ft. $140,000. Titus & Dillon, Carthage, co. engr.

Streets and Roads (Continued)

Tex., Corsicana — J. Harper, city secy. soon takes bids asphaltic concrete paving about 12,000 sq.yd. various streets. $35,000. W. McClendon, City Hall, engr.

Tex., El Paso—El Paso Co. rejected bids grading and surfacing, etc., 15.62 mi. State Highway 1, Federal Aid Project 439-E, 17 and 30 ft. $403,740. Will readvertise. Noted Jan. 22.

Tex., Jefferson—Marion Co. making plans 2½ in. asphalt on 4 in. gravel surfacing 3.56 mi. State Highway 8, Federal Aid Project 306-A, 16 ft., $44,500; and 2½ in bituminous on gravel surfacing 7.57 mi. State Highway 8, Federal Aid Project 306-C, 16 ft., $73,000. T. B. Warden, Jefferson, co. engr.

Tex., Seymour—Baylor Co. making plans grading, asphaltic macadam surfacing and bridging 20 mi. State Highway 24, 18 ft. $407,000. J. G. Rollins, resident engr.

Tex., Seymour—Baylor Co. making plans improving 33 mi. Federal Aid Project 454, 16 and 18 ft. $656,800. J. G. Rollins, Seymour, co. engr.

Tex., Seymour — Baylor Co. takes bids after Mar. 1, asphaltic macadam paving 13.68 mi. State Highway 30, Federal Aid Project 452A, 18 ft. $170,000. J. C. Rollins, Seymour, co. engr.

Tex., Victoria—S. S. Sitterle plans election soon $35,000 bonds, paving various streets, Uvalde rock asphalt on concrete.

Okla., Blackwell—Plans grading, widening and vertical fibre brick surfacing 5,550 sq.yd. East Blackwell Ave. $27,600. W. Ritzhaupt, Jr., Blackwell, engr.

Okla., Checotah — Plans grading and vertical fibre brick surfacing 4,900 sq.yd. LaFayette St. $26,000. T. P. Clonts, 2110 Garland St., Muskogee, engr.

Okla., Cordell — Voted $65,000 bonds, grading and surfacing 10 blocks Main, Market and College Sts., 60 ft. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Lawton — Comanche Co. election Mar. 10, $400,000 bonds, graveling 100 mi. various roads, 18 ft.

Okla., Oklahoma City—Soon takes bids 2 course Willite asphalt surfacing Randolph St. from 16th to 19th Sts.; 2 course 8 in. gravel surfacing, etc., 14th St. from Drexel to Independence Sts., and Poplar St. from Central to Oklahoma Aves. B. M. Hart, City Hall, engr.

Okla., Stigler — Defeated $30,000 bonds grading and surfacing 5 blocks Main St., 40 ft. T. P. Clonts, 2110 Garland Bldg., Muskogee, engr.

Colo., Denver — Plans during 1925, concrete paving 72 blocks in Alley Paving Dists. 118, 120, 121, 122, 123 and 124, $153,803; grading, curbing and surfacing ½ mi. sq. South Denver Dist. 21, $149,000, and ½ x ½ mi. Montclair Impvt. Dist. 2, $118,000. A. K. Vickery, City Hall, engr.

Wash., Goldendale—Comrs. Klickitat Co. rejected bids grading, etc. 6½ mi. Husum-Trout Lake Rd. $25,000. Work will probably be done by day labor. C. W. Spaulding, Goldendale, engr.

Wash., Seattle — Made plans paving Aurora Ave., et al. $81,000; North and West 78th Sts. $39,000; Whitman Ave., et al. $42,000; North and East 40th Sts. $165,000; North 46th St. $215,000. J. D. Blackwell, city engr.

Wash., Seattle—King Co. making plans paving 7.5 mi. road, $225,000; and soon takes bids paving 2.5 mi. Lake Burien Highway, $75,000. T. R. Beeman, Seattle, co. engr.

Wash., Tacoma — Made plans filling, straightening, riprapping and paving 20 ft. roadway on North Front St., et al. $390,000. J. C. Manley, 1409 South 9th St., Tacoma, engr.

Calif., Chico — Plans 68 blocks concrete sidewalks in Chapmantown Dist. To exceed $25,000. I. R. Morrison, city engr.

Calif., Compton — Made plans improving McKevitt Ave., Tucker, Willow Sts. etc., 75,990 sq.ft. sidewalks, 13,430 ft. curbing, 228,450 sq.ft. 5 in. concrete paving, 228,450 sq.ft. grading, etc. E. M. Lynch, Central Bldg., Los Angeles, engr.

Calif., Huntington Beach — Made plans concrete curbing, cement walks, 1½ in. asphaltic concrete Topeka surface on 3½ in asphaltic concrete paving, etc., portions of Palm Ave. To exceed $25,000. E. M. Billings, city engr.

Calif., Huntington Beach—Making plans 5 in. asphaltic concrete paving Orange Ave. between 11th and 23rd Sts. To exceed $25,000. E. M. Billings, City engr.

Calif., Lakeport — Plans approximately 6 in. vibrolithic concrete paving 200,000 sq.ft. various streets. R. E. Donohue, Ukiah, engr.

Calif., Los Angeles — Takes bids about Mar. 10, curbing, guttering, sidewalks and asphaltic concrete paving 10 blocks Murfield Rd., Temple Hill Dr., Armstrong Ave., 59th, Dracien and Roy Sts. To exceed $25,000. H. A. Norman, City Hall, engr.

Calif., Palo Alto—Making plans improving various streets, approximately 10,348 cu.yd. gravel, 5,174 cu.yd. sand, 17,619 bbls. cement, 8,210 ft. water, 3,968 ft. 2 and 4½ in. gas and 5,800 ft. sewer mains, 5,613 ft. 12 to 27 in. storm sewers 143 ft. 4 in. sewer connections, etc. J. F. Byxbee, city engr.

Calif., San Diego—Plans improving Garnet St., 2,632 lin.ft. concrete curbing, 13,208 sq.ft. cement sidewalks, 9,139 sq.yd. 5 in. concrete paving; 20th St., 1,508 lin.ft. concrete curbing, 1,130 sq.ft. cement sidewalks, 1.5 in. Warrenite wearing surface on 24,534 sq.yd. 2.5 in. asphatic concrete; Villa Terrace, 849 lin.ft. curbing, 3,261 sq.ft. cement sidewalks, on 14,358 sq.yd. 1.5 on 2.5 in. asphaltic concrete; Ketner Blvd., 6,022 lin.ft. curbing, 2,919 sq.ft. cement sidewalks, 1.5 in. asphaltic concrete wearing surface on 22,555 sq.yd. 5 in. concrete. F. A. Rhodes, City Hall, engr.

Calif., San Diego—Plans improving portions of Kettner Blvd., Portola Pl., Pringle, Guy, Titus, Washington and McNealy Sts., 136,018 sq.ft. 5 in. concrete paving, 6,828 lin.ft. concrete curbing, 33,610 sq.ft. concrete sidewalks, 6,153 cu.yd. excav., etc.; also Kettner Blvd. and Ivy St., 203,039 sq.ft. 1.5 in. asphaltic concrete on 5 in. concrete, 2,919 sq.ft. concrete sidewalks, 6,022 lin.ft. concrete curbing, etc. F. A. Rhodes, City Hall, engr.

Calif., Santa Cruz — Santa Cruz Co., making plans macadam paving 1.5 mi. Beach Rd., and 1 mi. Aromas Rd. L. Bowman, Santa Cruz, co. surv.

Calif., Santa Rosa—Making plans grading, reconstructing waterbound macadam base to form 4 in. foundation and Willite process asphaltic concrete surfacing various streets. To exceed $25,000. P. Green, city engr.

Ont., Perth—Perth Co. plans concrete paving St. Marys Rd.; surface treating Sebringville and Stratford Sts.; also gravel maintenance on Mitchell, London and Blanshard Sts. $111,600.

BIDS DESIRED

R. I., East Providence (Providence P. O.) —Mar. 3, at office of Town Clerk, paving and granite curbing 5th, Purchase, James and John Sts. To exceed $25,000.

New York—Mar. 17, by A. W. Brandt, comr. highways, 55 Lancaster St., Albany, constructing highways in Allegheny, Clinton, Erie, Greene, Madison, Ontario, Steuben and Ulster Counties; also reconstructing highways in Erie, Herkimer, Monroe, Orange, Schenectady, St. Lawrence, Westchester, Yates and Orleans Counties; adv. E. N.-R. Feb. 26.

N. Y., Brooklyn — Mar. 6, by J. A. Guider, boro. pres., Boro Hall, restoring and repaving asphalt pavements damaged in connection with subsurface work.

N. Y., Brooklyn — Mar. 14, by J. A. Guider, boro. pres. Boro. Hall, paving Barbey, Bay 10th, East 10th, East 35th, Newport, West 37th, and 76th Sts., Bedford, Stone and 10th Aves.; grading Brooklyn Ave., East 10th, East 35th, 62nd, 65th, and 79th Sts.; curbing 73rd St., Dumont and New York Aves.; curbing and flagging East 9th St.; recurbing Gatlin Pl.

N. Y., New York—Mar. 5, by H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., granite block paving and repaving Park Ave. E., East Tremont and Webster Aves., grading, curbing, sidewalks, etc. Davidson and Grand Aves., bituminous concrete paving Grand Ave., West 174th, 175th and 176th Sts.

N. Y., St. George—Mar. 3, by J. A. Lynch, pres. Richmond Boro., Boro. Hall, bituminous concrete repaving Johnson Ave.

New Jersey—Mar. 16, by State Hy Dept., Trenton, grading and paving Route 5, Sect. 15, Essex and Union Counties, and Route 11, Sect. 8, Essex Co. A. L. Grover, secy.; adv. E. N.-R. Feb. 26.

Pennsylvania — Mar. 13, by Dept. Hys. Harrisburg, bituminous on concrete or rein.-con. surfacing 75 mi. 16 projects in 12 counties. W. H. Connell, engineering executive and deputy secretary of highways; adv. E. N.-R. Feb. 26.

Pa., Mt. Lebanon — Mar. 2, by Comrs. Mt. Lebanon, Twp. grading, curbing and 10, 100 sq.yd. paving Alfred St., Church, Lebanon and Clearview Aves.; also 18,300 sq.yd. paving Spaulding Circle, Longuevue and Woodhaven Drives. Douglass & McKnight, 912 Columbia Bank Bldg., Pittsburgh, twp. engrs.

Md., Baltimore—Mar. 4, by Bd. Awards, constructing concrete curb and combination concrete curb and gutter on various streets, during 1925. B. L. Crozier, City Hall, highway engr.

Md., Towson—Mar. 3, by Comrs. Baltimore Co., Courthouse, concrete paving 1 mi. Middleton Rd. and 1 mi. Graystone Rd. S. A. Green, Courthouse, road engr.

Virginia—Mar. 12, by State Hy. Comm., Capitol Sq., Richmond, bituminous macadam surfacing 2.2 mi. Moorefield-Hamlin Co. Rd., Route 113, Project S-327, Russell Co. and 14.51 mi. South Roanoke Rd., Route 33, Project F-118-D, Franklin Co., also bridge over Toots Creek, Route 18, Project F-36, Halifax Co. C. S. Mullen, ch. engr.; adv. E. N.-R. Feb. 26.

Va., Harrisonburg—Mar. 9, at office of Clerk Rockingham Co., grading and waterbound macadam surfacing 9,934 sq.yd. Keezletown Rd. between Keezletown to State Route 17.

Florida—Mar. 4, at office State Rd. Dept., Tallahassee, concrete, rein.-con., sheet or asphalt, bituminous macadam or bituminous concrete paving, etc. 12.1 mi. from Six Mile Creek South, Project 581 State Rd. 5, Hillsborough Co. J. L. Cresap, highway engr.

Louisiana—Mar. 12, by State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 5.29 mi. State Project 386 B, Opelousas-Ville Platte Highway, St. Landry Parish. W. B. Robert, ch. engr.

O., Columbus—Mar. 3, by W. H. Duffy, dir. Pub. Serv., grading, laying water services and sewer connections and paving, 2,022 ft. 1st Ave., 34 ft., asphalt $19,951; 1,620 ft. Washington and Columbiana Aves., 24 ft., brick $28,932, asphalt $17,370; 3,330 ft. Champian Ave., 30 ft., brick $75,175, asphalt $61,964; 1,184 ft. Cliffside Dr., 18 ft., brick $17,183, concrete $13,943; 2,621 ft. alley north of Mithoff St., 18.42 ft., brick 5,775, concrete $5,129; 350 ft. alley north of 6th Ave., 16 ft., concrete $2,065; brick $2,292; also 950 ft. 8 in. vitr. sewer in alley north of Jason Ave., $2,000.

Illinois—Mar. 16, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick or bituminous concrete, with or without binder course surfacing 6.5 mi. Route 1, Sect. 32, Saline Co., 6.86 mi. Sect. 28, 5.31 mi. Sect. 29, 3.25 mi. Sect. 30 and 3.01 mi. Sect. 31, Route 5, all Jo Daviess Co, 2.16 mi. Route 9, Sect. 37, Fulton and McDonough Counties, 5.28 mi. Sect. 38, 4.52 mi. Sect. 40, 3.47 mi. Sect. 41 and 2.56 mi. Sect. 41-D, Route 9, all Fulton Co., 11.18 mi. Route 22, Sect. 20, Lake Co., 8.6 mi. Sect. 3, and 10.5 mi. Sect. 4, Route 23, LaSalle Co., 5.01 mi. Sect. 29, and 7.16 mi. Sect. 30, Route 23, DeKalb Co., 6.48 mi. Route 23, Sect. 31, LaSalle and DeKalb Counties, 2.57 mi. Route 31, Sect. 10, Schuyler and Brown Counties, 4.66 mi. Sect. 11, 4.77 mi. Sect. 12, and 5.96 mi. Sect. 13, Route 36, Adams Co., 1.04 mi. Route 37, Sect. 11-X, Franklin Co., 0.22 mi. Route 37, Sect. 13-V, Williamson Co., 3.31 mi. Route 38, Sect. 2, Jersey Co., 4.4 mi. Route 39, Sect. 12, Pratt and Champaign Counties, 6.9 mi. Route 39, Sect. 13, Champaign Co., 6.1 mi. Route 43-A, Sect. 1, Menard Co., 0.29 mi. Route 3, Sect. P-4, LaSalle Co., all foregoing 18 ft.; grading 1.9 mi. Route 8, Sect. 50-A, 15,000 cu.yd. excav., Tazewell Co., 0.39 mi. Route 12, Sect. 1-A, 50,700 cu. yd. excav., Lawrence Co., 4.07 mi. Route 27, Sect. 16-A, 56,865 cu.yd. excav., Carroll and Ogle Counties, 6 mi. Route 33, Sect. 3-A, 83,855 cu.yd. excav., Jasper and Crawford Counties, 3.31 mi. Route 38, Sect. 2-A, 23,391 cu.yd. excav., Jersey Co. F. T. Sheets, ch. engr. Noted Feb. 12 and 19.

Kan., Wichita—Mar. 2, by City Clerk, asphaltic concrete surfacing, etc., 994 sq. yd. Bluff St., and 7,977 sq.yd. Green St.; concrete surfacing, etc., 8,007 sq.yd. Gilbert St.; sheet asphalt surfacing, etc., 8,476 sq. yd. Kellogg St. P. L. Brockway, city engr. Noted Dec. 4.

Minn., Owatonna—Mar. 3, curbing and rein.-con. paving 10,032 sq.yd. South Cedar St. $30,000. R. L. Van Nocker, city engr. Noted Feb. 19.

North Dakota — Mar. 4, by State Highway Dept., and Bd. Comrs. Wells Co., at Court House Fessenden, preparing subgrade and constructing earth shoulders, etc., on 11.25 mi. highway north of Hurdsville, Federal Aid Project 88, 15,414 cu.yd. loading, spreading gravel etc.

North Dakota—Mar. 5, by State Highway Comn., and Bd. Comrs. Stutsman Co., Jamestown, clearing, grubbing and grading etc. 57,634 cu.yd. highway east of Melville. Federal Aid Project 275.

North Dakota—Mar. 12, by State High Comn. and Bd. Comrs. Mountrail Co., at

Streets and Roads (Continued)

Court House, Stanley, improving 6.016 mi. Federal Aid Project 258B, Mountrail Co., 42,113 cu.yd. earth and 900 cu.yd. rock excav., etc.

North Dakota—Mar. 24, by State Highway Comn. and Bd. Comrs. Mountrail Co., at Court House, Stanley, clearing, grubbing and grading, 35,361 cu.yd. Federal Aid Project 277, south of Parshall, and 47,282 cu.yd. Federal Aid Project 248B, south of Stanley.

Mo., Clayton—St. Louis Co. takes bids about Mar. 10, grading, curbing and 8 in. rein.-con. paving 7,505 sq.yd. Forsythe, Carondelet, Central and Meramec Sts. Keck Surveying Co., 721½ Chestnut St., St. Louis, engrs.

Tex., Eagle Pass — Mar. 12, by W. O. Fetch, judge Maverick Co., grading and bridging 12.09 mi. State Highway 85, Federal Aid Project 569-A, 26 ft., $54,400; 11.96 mi. State Highway 85, Federal Aid Project 569-B, 26 ft., $62,750. C. E. Wright, co. engr.

Tex., Hebbronville—Mar. 10, by A. K. Brumfield, judge Jim Hogg Co., grading, caliche surfacing, etc., 5.49 mi. State Highway 12-A, Federal Aid Project 436-G, 18 ft., $25,000; and 3.4 mi. State Highway 12-A, Federal Aid Project 424-H, 18 ft. $27,000. E. J. Foster, 201 Valdez Bldg., engr.

Tex., Waco—Mar. 10, by E. E. McAdams, city mgr., improving Bosque Blvd., Concord, Laskee and Washington Sts., etc., 88,195 sq.yd. concrete, 7,984 sq.yd. 2 in. asphalt macadam, 19,744 lin.ft. curbing, 43,000 lin. ft. gutter, etc. $225,000. V. G. Koch, city engr.

Oklahoma—Mar. 3, by State Hy. Dept., Oklahoma City, grading, etc., 79,792 cu.yd. Nowata-Coody Bluff-Alluwe Rd. $63,890. J. M. Page, Capitol, Bldg., highway engr.

Nev., Reno—City Council taking bids and opens same about Mar. 9, 700,000 sq.ft. 1.5 in. asphaltic concrete on 3.5 in. asphaltic concrete paving various streets. H. Chism, city engr.

Wash., Kelso — Mar. 5, by City Comn., grading, gravel surfacing, concrete sidewalks, etc., North Kelso, L. I. D. 75. C. M. Thomas, Kelso, engr.

California—Mar. 16, by State Hy. Comn., Sacramento, widening and concrete paving 11.6 mi. roads in San Joaquin Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Mountain View—Mar. 3, by Town Trustees, improving various streets, 495,800 sq.ft. 1.5 Warrenite-bituminous on 2.5 in. asphaltic concrete, 15,351 cu.yd. grading, 3,108 ft. 12 in. segmental corrugated iron culverts, etc. C. C. Kennedy, Call Bldg., San Francisco, engr. Noted Jan. 22.

BIDS RECEIVED

N. Y., St. George—J. A. Lynch, pres. Richmond Boro., Feb. 19, grading and concrete paving Hylan Blvd., from J. Johnson Sons, 455 Bway., West New Brighton, $285,313. Noted Feb. 12.

O., Cleveland — Cuyahoga Co., paving Chardon Rd., from Ohio Constr. Co., Hunkin-Conkey Bldg., concrete $99,735; from F. B. Stein, Euclid, brick $124,117, and bituminous concrete $111,748. Engrs. est. $142,500. Noted Jan. 22.

Ind., Noblesville—Hamilton Co. hardsurfacing 2.5 mi. McKinney Rd., 18 ft., from C. Williams, Lebanon, $64,400. Engrs. est. $85,000.

Ind., Terre Haute — Vigo Co., concrete paving 32,736 sq.yd. Jackson Highway, from J. P. Welch, 815 South 5th St., $61,310, engrs. est. $76,012; hardsurfacing 3 mi. Erickson Rd., from Peerless Constr. Co., Terre Haute, $73,801, engrs. est. $98,625. R. E. Givens, engr.

Ind., Wabash — Wabash Co., concrete paving 12,672 sq.yd. La Salle Rd., and 11,616 sq.yd. Dare Rd., from Pike Constr. Co., Wabash, $27,460 and $26,490 respectively. Engrs. est. $32,000 and $30,000, respectively. Noted June 19.

Ill., Galesburg—Bd. Local Impvts., Feb. 2, grading and vitr. brick surfacing, etc., 6,496 sq.yd. East Knox St., from H. H. Gunther, 600 East Main St., $25,792, engrs. est. $27,533; 3,940 sq.yd. Barren St., from Graham-King Constr. Co., 550 South Cedar St., $15,990, engrs. est. $17,145. Noted Feb. 12.

Wis., Waupun — Bd. Pub. Wks., G. E. Mallory, chn., Feb. 17, paving, etc. 14,637 sq.yd. various streets, from L. C. Christianson, Cambridge, vibrolithic concrete at $2.48 per sq. yd., total $49,992; from J. Rassmussen & Sons Co., foot of 7th St., Oshkosh, asphaltic concrete $2.75, total $54,578; from Gen. Constr. Co., 1222 Plymouth Bldg., Minneapolis, Minn., warrenite bitulithic $3.12, total $63,111. Noted Feb. 5.

Neb., Omaha—Paving, curbing and guttering roads in 28 districts, from Natl. Constr. Co., 310 Arthur Bldg., asphaltic concrete on 6 in. base at $2.23 per sq.yd.; from J. C. Redd, 2560 Mary St., brick on 6 in. base $3.38; from J. Kerns Constr. Co., 1809 Dodge St., sheet asphalt on 6 in. base $2.51. Engrs. est. $350,000.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Feb. 17, surfacing 14th St. viaduct, 4,870 sq.yd. Willite, from Central Paving & Constr. Co., 6161 Maple Ave., $7,305; wood block, granite on concrete surfacing, granite sidewalks, etc., from F. A. Stiers, 4500 Enright St., $40,475. Noted Jan. 22.

Tex., Barstow—Ward Co., grading, gravel surfacing and bridging 4.61 mi. State Highway 1, Federal Aid Project 391-B, 16 ft., from King Constr. Co., Dallas, $94,208. Engrs. est. $88,250. Noted Feb. 5.

CONTRACTS AWARDED

N. J., Dover—Randolph Twp. Com. constructing Sect. 2, Dover-Mt. Freedom Rd., Sussex Co., to Knight Constr. Co., Morristown, $35,000.

N. J., Hammonton—Bd. Freeholders Atlantic Co. (Atlantic City), paving Central Ave., to T. Tobish, Amer. Mechanic Bldg., Trenton, $26,742.

Pa., Phila. — Bureau Hys., Dept. Pub. Wks., to Root Bros., Ridge Ave. and Righter St., grading Daniel St. $1,405, to T. L. Flanagan, 531 East Girard St., Foulkrod St. $5,033, Hellerman St. $2,748, from Dewees Bros., 5th St. and Firber Ave., Wagner St. $591; to Mack Paving & Constr. Co., Nicetown Lane & Luzerne Sts., asphalt paving 16th St. $7,046, asphalt repaving Pechin St. $4,927, Rockland St. $18,835; to Barber Asphalt Paving Co., 239 North 30th St., asphalt paving 16th St. $15,159, asphalt repaving Dudley, Durfor, Fernon, Fitzgerald, Winton and Wolf Sts. $22,235, Wister St. $19,724; to United Paving Co., 833 Real Estate Trust Bldg., vitr. block paving Mitchell St. $13,320, 15th St., (track area) $34,753; to Eastern Asphalt Co., 1504 Penna. Bldg., asphalt repaving Elkhart St. $1,886, Shunk St. $22,191, Wharton St. $24,829; to Mazzola & Marano, 739 South 7th St., redressed granite block repaving Germantown St., $107,910, to C. G. Centrone, 1015 Chestnut St., Orthodox St. (track area) $15,797, to Acchione & Canuso Paving Co., 804 South 12th St., 7th St. $28,094, to Municipal Paving Co., 632 Kater St., 10th St., $39,931; to J. Lombard, 601 Lincoln Bldg., 15th St. $36,497, to M. J. McCrudden, 1134 Real Estate Trust Bldg., 22nd St. $20,940, to J. J. McHugh, 1617 Race St., curbing and footway (property owners to pay), $19,767.

Fla., Lake Worth—Improving road between Lake Ave. and 23rd St., 28,694 sq. yd. asphalt surfacing and 4,979 cu.yd. grading, to R. G. Lassiter & Co., West Palm Beach, and State Fair Grounds, Raleigh, N. C., $200,000.

Fla., Tampa—Paving, widening and regrading portion of East Lafayette and De Leon Sts., to Cone Bros., Tampa, $25,718. Noted Dec. 11.

Fla., Vero — Paving and curbing 5 mi. various streets, to F. W. Long & Co., Realty Bldg., Jacksonville, $163,767. Noted Jan. 8.

O., Ravenna — Improving Diamond St., north and south of Main St., to T. L. McCormic, Ravenna, $57,689. Engrs. est. $61,000.

Ind., Warsaw — Kosciusko Co., concrete paving 29,842 sq.yd. Minear Rd., to E. A. Gast, Warsaw, $62,500. Noted Dec. 18.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, surfacing Route 23, Sect. 24, McHenry Co., to Harrison Eng. & Constr. Co., Mutual Bldg., Kansas City, Mo., $163,100; Route 36, Sect. 18, Pike Co., to E. J. Eiff Co., Quincy, $201,793; Route 1, Sects. 2, 3 and 28, White Co., and Sect. 29, Saline, Gallatin and White Counties, to Ranson & Sherwood, Palestine, $344,000; Route 17, Sect. 28, LaSalle Co. and Sect. 29, La Salle and Livingston Counties, to W. D. Lonergan Constr. Co., Streator, $217,000. Noted Nov. 20 and Dec. 4.

Ill., Quincy—Paving various streets, 40,855 sq.yd. asphalt, to Bauer, Johnson & Co., Quincy, $81,416, 28,302 sq.yd. asphalt to Western Asphalt Paving Corp., 1st and Nebraska Sts., Sioux City, Ia., $61,000; concrete surfacing 11,140 sq.yd. concrete, to P. Simons, Quincy, $26,353, and 1,290 sq.yd. concrete, to W. Wells, Quincy, $2,889. Noted Jan. 22.

N. D., Ellendale—Dickey Co., improving 12 mi. Federal Aid Project 211, Sect. B, 71,346 cu.yd. earth and 1,640 cu.yd. rock excav., 8,893 cu.yd. overhaul, 4 mi. graveling, etc., to N. Brolander, Lidgerwood, $38,000; 15.5 mi. Federal Aid Project 261, 113,765 cu.yd. earth and 2,000 cu.yd. rock excav., 10,443 cu.yd. overhaul, etc., to H. Hehr, Ellendale, N. D., $54,000. Noted Jan. 22.

Missouri—State Hy. Dept., Jefferson City, to Bryant Paving Co., Waterloo, Ia., grading and 18 ft. concrete surfacing 11.376 mi. St. Joseph-Grayson Rd., Clinton Co., $153,617, 4.711 mi. St. Joseph-Grayson Rd., Buchanan Co. $63,761; to A. A. Davis Constr. Co., Gr. Exch., Oklahoma City, Okla., grading 1.614 mi. road from Mt. View north and south, Texas Co. $27,611, 18 ft. gravel surfacing 4.381 mi. Bolivar-Stockton Rd., Polk Co. $41,186, 12 ft. gravel surfacing 2.197 mi. Bolivar-Stockton Rd. $20,926; to J. P. Harlin, West Plains, grading 3.92 mi. road from Alton east and west, Oregon Co. $42,089, 12 ft. gravel surfacing 2.596 mi. road from Gainsville east and west, Ozark Co. $9,847; to E. C. Johnson, Carrollton, grading and 18 ft. rock asphalt surfacing 2.423 mi. road from Edinburg west, Grundy Co., $63,211; to Harrison Constr. Co., 413 Kraft Bldg., Des Moines, Ia., grading and 18 ft. concrete surfacing 3.351 mi. Edinburg-Trenton Rd., Grundy Co. $106,864; to Gaines Bros. Co., Fairland, Okla., 30 ft. grading 4.898 mi. Warrensburg-Higginsville Rd., Johnson Co. $42,488, to T. J. Morris, Oregon, 2.936 mi. St. Joseph-North Rd., Andrew Co. $24,115, to Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, 4.032 mi. St. Joseph-Hannibal Rd., Livingston Co. $31,578, to R. P. Harper Constr. Co., Leona, Kan., 3.454 mi. St. Joseph-Hannibal Rd., Livingston Co. $14,256, to Summerfield-Jones Co., Billings, 1.454 mi. state road from Alton north and south, Oregon Co. $12,928, to Thomas & Johnson, Doniphan, 2.981 mi. road from Winona east and west, Shannon Co. $31,226; to F. Teach, Rensselear, Ind., 20 ft. gravel surfacing 3.995 mi. road from Wayland south, Clark Co., $6,488; to McCann Bros. & Huffman, Grand Tower, Ill., 16 ft. gravel surfacing 2.257 mi. state road from Sikeston north and south, Scott Co. $27,955, to F. T. O'Dell, New London, 3.864 mi. state road from Canton to Monticello Lewis Co., $46,562; to N. A. Christy, Warsaw, 12 ft. gravel surfacing 0.936 mi. Stockton-Bolivar Rd., Cedar Co., $13,119. Noted Feb. 12.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Webb-Boone Paving Co., 5927 Fyler Ave., paving, etc., Delmar Blvd., $43,600; to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., Elmbank St. $17,906, Francis St. $18,643; to Webb-Kunze Constr. Co., 5927 Fyler Ave., Tennessee St. $13,280, Theodore St. $51,618, Bancroft St. $11,638, Montana St. $14,200, Garner St. $10,642; to Central Paving & Constr. Co., 6161 Maple St., Fyler St. $34,304, St. Louis St. $43,992; to Eyermann Constr. Co., 1216 South Grand Blvd., Garner St. $22,711; to Blackburn & Cuan, Chouteau Trust Bldg., East Gate and Enright Aves. $6,692. Noted Jan. 22.

Tex., Ennis—Bitulithic paving 11 streets, to Central Bitulithic Co., Praetorian Bldg., Dallas, $75,000. Noted Nov. 6.

Tex., Ft. Worth — Paving Ave. K from Vaughan Mackey Sts., to General Constr. Co., Cotton Exch. Bldg., $32,050. Engrs. est. $35,000. Noted Jan. 29.

Tex., Sweetwater—Paving various streets, to West Texas Constr. Co., Cotton Exch. Bldg., Ft. Worth, $56,862.

Tex., Waxahachie—Ellis Co. native limestone base surfacing 45 mi. lateral roads in Rd. Dist. 1, 15 ft., to Purvis & Lowery, Ft. Worth, $144,946. Engrs. est. $150,000. Noted Feb. 12.

Nev., Reno — Improving various streets, 85,000 sq.ft. concrete sidewalks, 39,000 ft. 8 ft. 6 in. and 4,000 ft. 2 ft. 6 in. concrete curb and gutter, 3,200 ft. 8 in. and 500 ft. 6 in. concrete gutter, 15,000 sq.ft. concrete paving, to I. Christiansen, 109 Sierra St., Los Angeles, Calif., $93,765. Noted Feb. 12.

Ariz., Phoenix—City to The Pacific Construction Co., 16 California St., San Francisco, improving McKinley St., etc., 9,511 sq.yd. paving Specification 26AA at $2.07 per sq.yd., 171 sq.yd. paving, Specification 42 $2.15, 9,682 sq.yd. grading $0.32, 5,514 lin.ft. combined curb and gutter Det. E $1.43, 361 lin.ft. single gutter Det. G, 368 ft. single curb Det. F, $0.94 each, etc.; to J. C. Steele & Co., improving Berkeley Rd., 4,160 sq.yd. paving Specification 42-5 at $2.16 per sq.yd., 4,160 sq.yd. grading $0.26, 69 sq.yd. paving Specification 42-5 $2.16, 23 ft. combined curb and gutter Det. E, $1.50, 76 ft. curb Det. F, $1.00, 5 ft. gutter Det. G, $1.50.

California—State Hy. Comn., Sacramento, constructing 16.1 mi. road between Arroyo Sequit and Las Flores Canyon, Los Angeles Co., to S. W. Jewett, 2034 South Western St., Los Angeles, $250,754. Engrs. est. $327,967. Noted Jan. 22.

Streets and Roads (Continued)

Calif., Alhambra — Curbing, guttering, sidewalks, asphaltic concrete paving, etc. Primrose Ave. between Main and Poplar Sts., etc., Hall-Johnson Co., 3025 Fowler St., Los Angeles. $27,250.

Calif., Los Angeles — See "Excavation, Drainage, Irrigation, Levees."

Calif., Santa Rosa—W. W. Felts, Jr., clk. Sonoma Co., to A. Teichert & Son, P. O. Box 1118, Sacramento, improving Forest-Guerneville Highway, Sect. "A," 97,180 sq. ft. 2 in. Willite on 3 in. concrete, at $0.207 per sq.ft., 2,200 cu.yd. excav. $1, 5.6 cu.yd. concrete $28. Noted Feb. 5.

Buildings—Industrial

PROPOSED WORK

Mass., Arlington (Boston P. O.)—Plant —Arlington Belmint Ice Co., plans rebuilding plant at Spy Pond. $150,000. Engineer and architect not selected.

Mass., Lowell — Plant — G. W. Cady & Sons Co., Western Ave., plans rebuilding plant, recently destroyed by fire. $75,000. Engineer and architect not selected.

Mass., Reading — Plant — Bd. Selectmen, J. B. Knight, chn., plans electric power plant. $80,000. Engineer and architect not selected.

Mass., Watertown—Factory—F. C. Hersee Co., 22 Parkman St., Brighton, plans 1 story, 15,000 sq.ft. floor space, brick and timber, Galen St., here. $60,000. Engineer and architect not selected.

Mass., Webster — Factory — Middlesex Casket Co. plans rebuilding factory, recently destroyed by fire. $40,000. Engineer and architect not selected.

N. Y., Niagara Falls—Plant—F. J. Tons, Sugar and College Aves. plans to enlarge plant here. To exceed $150,000.

Md., Baltimore—Plant—Western Maryland Dairy, Linden Ave. and Dolphin St., having plans prepared by J. E. Sperry, Calvert Bldg., 2 story and basement, brick, plain foundation, on 125 x 300 ft. site, 3501 Philadelphia Rd. $150,000.

La., Shreveport — Power Plant — Southwestern Gas & Electric Co., having plans prepared by E. F. Neild, Merchants Bldg., 80 x 150 x 270 ft., rein.-con. and brick, plain foundation, Pierre Ave. $300,000.

O., Cleveland—Factory—Paul Bros., c/o G. Paul, Fidelity Mortgage Bldg., had plans prepared by J. F. Steffens, Fidelity Bldg., 1 story, 181 x 267 ft., brick, steel and concrete, Superior Ave. and East 51st St. $175,000.

O., Tiffin — Factory — W. H. Hopple, having plans prepared by S. H. Leister, structural engr., 203 North Sandusky St., rebuilding 1 story, 112 x 260 ft. brick and timber factory buildings recently destroyed by fire.

Ill., Granite City—Dairy Plant—Massey Brothers Dairy Co., 20th and I Sts., takes bids about April 1, 1 and 2 story, rein.-con. and brick, 20th and Madison Sts. $60,000. Private plans.

Wis., Shawano—Cannery—Shawano Canning co., c/o G. Greb, mgr., having plans prepared by F. Schoenrock, New London, 2 story and basement, 50 x 200 ft., brick and tile, plain foundation. $50,000.

Ia., Mason City—Plant—Standard Oil Co. made plans rein.-con. and brick warehouse and shops, 9th Ave. and Carolina Ave. S. E. $120,000. Private plans.

Minn., Bloomington (Minneapolis P. O.) —Power House—See "Buildings—Commercial."

Minn., St. Paul — Bakery — Continental Bakeries, c/o J. J. Kenna, 601 Commerce Bldg., plans 3 story and basement, 200 x 300 ft., rein.-con. and brick, University Ave. and Emerald St. $150,000. Engineer and architect not announced.

Mo., Kansas City—Factory—Columbian Steel Tank Co., 1601 West 12th St., soon takes bids (1st unit) 3 story and basement, 130 x 253 ft., rein.-con. and steel, plain foundation, 12th and Wyoming Sts. $500,000. A. M. Griffin, engr., and G. I. Sanderlin, archt, both c/o owner.

Mo., Kansas City — Storage — Topeka Flour Mills Co., 126 North Jefferson St., Topeka, Kan., having plans prepared by Horner & Wyatt, 300 Board of Trade Bldg., approximately 200,000 bu. grain storage building, here.

Tex., Ft. Worth—Laundry—Natatorium Laundry Co., 101 East Belnap St., and Glasgow & Longley, archts., 1 Natl. Bank, take bids about Mar. 1, 2 story, 100 x 190 ft., rein.-con. and brick, plain foundation. $200,000.

Okla., Miami—Factory—Lomax Industrial Corp., Lomax, Ill., having preliminary plans prepared 1 story, 90 x 170 ft. broom factory, steel and timber, plain foundation, here. $160,000. Engineer and architect not selected.

Idaho, Lewiston — Mill — Weyerhauser Timber Co., Everett, Wash., plans saw mill with 1,500,000 ft. daily capacity, at dam which will be constructed across Clearwater River. Approximately $2,000,000.

Idaho, Lewiston—Plant—See "Dams."

Wash., Bellingham — Newspaper — F. S. Piper, archt., Bellingham, takes bids about April 5, 6 story and basement, 80 x 125 ft., rein.-con., Elk and Chestnut Sts., for Bellingham Publishing Co. $250,000.

Calif., Fresno — Plant — E. J. Kump Co., archts., Rowell Bldg., soon take bids 1 and 2 story, 75 x 150 ft., rein.-con. and brick, Kern and R Sts., for Coca Cola Distributing Co. $40,000. Noted Dec. 4.

Calif., Los Angeles — Machine Shop — Dept. Pub. Serv., Bureau Power & Lights, 207 South Bway., had plans prepared 3 story and basement, 85 x 320 ft. machine shop, 1600 North Maine St. $165,000. Private plans.

Calif., Oakland—Power House—Supervs. Alameda Co. soon take bids 2 story and basement, rein.-con. boiler house, etc., for county hospital. $200,000. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Calif., San Francisco — Mill — San Francisco Textile Mills, Inc., c/o Chamber of Commerce, Merchants Exchange Bldg., plans textile mill. To exceed $500,000.

Ont., Fergus—Plant—Beatty Bros. plans addition to factory. $100,000.

BIDS DESIRED

Mass., New Bedford—Factory—Continental Wood Screw Co., Pleasant St., taking bids 2 story, 80 x 100 ft., brick factory addition. $75,000. Leary & Walker, Times Bldg., archts. Noted Feb. 12.

Mass., Norwood—Plant—Bird & Sons, East Walpole, taking bids 2 story, 80 x 100 ft. finish building addition, $60,000, 1 story, 120 x 135 ft. printing building addition, $65,000, 1 story, 80 x 200 ft. oven building addition, $60,000, all rein.-con. and brick, plain foundations. Monks & Johnson, 99 Chauncy St., Boston, archts.

N. Y., Comstock — Shop — Mar. 12, by Superintendent State Prisons, Capitol, Albany, structural steel for shop at Great Meadow Prison here; adv. E. N.-R. Feb. 26.

Mich., Detroit—Plant—Mar. 3, by A. Kahn, archt., 1000 Marquette Bldg., 3 story, 80 x 639 ft., and 80 x 180 ft., rein.-con. and brick assembly plant, plain foundation, Connors Ave., for Hudson Motor Co., 12601 East Jefferson Ave.

Wis., Milwaukee—Factory—Mar. 5, by J. Topzant, archt., 144 Oneida St., 2 story and basement, 80 x 112 ft., brick and timber addition, plain foundation, Lincoln Ave., for Roberts Brass Co., 178 Lincoln Ave. $60,000. Noted Feb. 5.

BIDS RECEIVED

N. Y., Coney Island (Sta. Brooklyn) Shop—Bd. Transportation 49 Lafayette St., New York City, Feb. 20, structural steel for main repair shop and other buildings at yard, Ave. X and Shell Rd., here, from Bethlehem Steel Co., 25 Bway., New York City, $670,000. Noted Feb. 12.

CONTRACTS AWARDED

Mass., Lowell — Plant — Lowell Electric Light Corp., 20 Market St., brick addition to power plant, Perry St., to Stone & Webster, Inc., 147 Milk St., Boston.

O., Cleveland — Factory, etc. — C. F. Brookins, pres. Brookins Co., 1741 Euclid Ave., 2 story and basement, 35 x 140 ft., brick and steel and concrete factory and commercial building, East 40th St., and Carnegie Ave., to Kittinger-Watt Co., 4614 Prospect Ave. Archts. est. $50,000. Noted Oct. 30.

O., Cleveland — Factory, etc. — Tropical Oil & Paint Co., 1246 West 70th St., 3 story, 40 x 60 ft. factory, and 1 story, 80 x 120 ft. office building, brick and steel, to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $75,000. Noted Jan. 29.

O., Cleveland—Factory and Warehouse—Widlar Co., c/o C. W. Brandt, pres., 722 Bolivar Rd., 2 story and basement, 60 x 200 ft., brick, steel and concrete additions, Berea Rd., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $60,000. Noted Oct. 16.

Ill., Chicago — Plant — Bird-Archer Co., 32 Rector St., New York City, 2 story and basement plant, 18,000 sq.ft. floor space, here, to Austin Co., 2088 La Salle St., $50,000.

Wis., Green Bay—Cannery—W. Larsen Canning Co., North Bway., remodeling 1 story, 100 x 120 ft., brick and timber cannery, to L. Hansen & Sons, 527 South Ashland St. Archts. est. $40,000.

Wis., Shawano—Cannery—Shawano Canning Co., 2 story, 46 x 208 ft., brick and tile, plain foundation, to F. Schoenrock & Sons, New London. Archts. est. $50,000.

Wis., West Allis—Factory—LeRoi Co., 60th Ave. and Mitchell St., 1 story, 122 x 164 ft., brick and timber addition, plain foundation, 60th Ave., to A. E. Roesko, 857 68th Ave. Archts. est. $50,000.

Mo., North Kansas City—Factory—Amer. Cross Arm & Conduit Co. 332 South Michigan Ave., Chicago, Ill., 1 story, 110 x 112 ft., brick and concrete, Campbell and 13th Sts., to Bickel Contg. Co., 1016 Baltimore St., Kansas City.

Ariz., Inspiration—Mill—Inspiration Consolidated Copper Co., 1,600 tons structural steel for mill buildings, plain foundations, to Kansas City Structural Steel Co., Kansas City, Mo.; for furnishing 2,000 tons reinforcing bars, to Columbia Steel Corp., Pacific Electric Bldg., Los Angeles, Calif.

Calif., Oakland—Plant—California Compressed Gas Co., 1135 3rd St., 1 story, steel and timber plant, sludge pits, gas holder base, etc., Wood St. between 22nd and 24th Sts., to H. J. Christensen, 17th St. and Telegraph Ave., $47,500. Noted Dec. 25.

Calif., San Bernardino—Shop, etc.—State Hy. Comn., at Los Angeles, 1 story, 60 x 140 ft., corrugated iron maintenance shop, also corrugated iron timber truck shed, etc., here, to Houghton & Anderson, 143 Rose St., Los Angeles, $24,833. Noted Jan. 15.

Buildings—Commercial

PROPOSED WORK

Mass., Arlington—Police Headquarters—Bd. Selectmen plan new police headquarters, Central St. To exceed 150,000. Engineer and architect not selected.

Mass., Boston—Garage—Kudish & Kager, 521 Seaver St., Roxbury, having plans prepared by A. Rosenstein, 220 Devonshire St., 1 story, 125 x 300 ft., rein.-con. and brick, Massachusetts Ave., here. $200,000.

Mass., Boston — Home—Home for Aged Women, c/o Coolidge, Shepley, Bulfinch & Abbott, archts., Ames Bldg., having preliminary plans prepared 3 story, brick, plain foundation, Revere St. $200,000. H. Woodworth, chn. Building Com.

Mass., Boston—Store—Park Sq. Real Estate Trust, c/o W. J. McDonald, J. S. Drapeu and M. T. Dowling, 200 Devonshire St., having preliminary plans prepared by Densmore, LeClear & Robbins, Park Sq. Bldg., 5 story, basement and sub-basement, 120,000 sq.ft. floor space, rein.-con., brick, steel and limestone, St. James Ave., Stuart and Berkley Sts. $10,000,000. Lockwood, Green & Co., 24 Federal St., engrs. United Dept. Stores, Lessee.

Mass., Boston — Warehouse — Morgan Memorial Corp., 89 Shawmut Ave., F. S. Moore, treas., plans 7 story and basement warehouse, 36-44 Kirkland St. $150,000-$175,000. Engineer and architect not selected.

Mass., Brighton (Boston P. O.)—Chapel —St. Elizabeth's Hospital, Cambridge St., having plans prepared by E. T. P. Graham, 171 Newbury St., Boston, 1 story and basement, rein.-con., brick and stucco, memorial chapel, plain foundation. $150,000.

Mass., Brockton (Boston P. O.)—Office—Brockton Gas Light Co., having plans prepared by Hutchins & French, archts., 11 Beacon St., Boston, altering and constructing 4 story and basement, brick and limestone addition, Main St. $150,000.

Mass., Lawrence — School — School Bd. having sketches made by Huntress & Alter, 477 Essex St., 2 story and basement, brick, easter nsection of city. T oexceed $150,000. Noted Jan. 15.

Mass., Newton — Dormitory — Newton Rest Assn., Inc., c/o H. H. Kandall, treas., 876 Beacon St., having plans prepared 1 and 2 story and basement, 100 x 200 ft., brick, Newton Centre. Private plans.

Mass., Newtonville—School—H. Fitts, city chn., City Hall, Newton, having revised plans prepared by Haven & Hoyt, 220 Devonshire St., Boston, 3 story and basement, brick and stone, Elm Rd. and Walnut St. $600,000. Former contract rescinded. W. A. Richardson, 80 Boylston St., Boston, engr. Noted Feb. 5.

Mass., Rosindale (Boston P. O.)—Apartment—Owner, c/o H. R. Duffie, archt. and engr., 333 Belgrade Ave., having plans prepared 3 story and basement, brick and stone apartment. $150,000.

Mass., Roxbury (Boston P. O.) — Mercantile—Owner, c/o M. M. Kalman, archt., Old South Bldg., Boston, having plans prepared, 3 story and basement, brick and stone, plain foundation, here. $150,000. E. C. Woodman Co., 2235 Washington St., lessee.

Mass., West Springfield (Springfield P. O.)—School—City of Springfield soon takes bids for school Kings Highway, here. $350,000. Van Pelt & Morris, 126 East 59th St., New York City, archts. Noted Jan. 15.

R. I., Providence — Apartment — Zura Realty Co., 524 Westminster St., plans brick and steel, Broad St. $150,000 or more. Engineer and architect not selected.

Buildings—Commercial (Continued)

Conn., Norwich — School — St. Joseph's Church, S. A. Icick, pastor, having plans prepared 3 story school. $250,000. Engineer and architect names withheld.

N. Y., New York—Apartment—Bailey Ave. Holding Co., c/o Rotholz & Golden, archts. and engrs., 311 Lenox Ave., having plans prepared brick, steel and stone, plain foundation, Bailey Ave.

N. Y., New York — Apartment — Weeks Ave. Building Co., c/o I. L. Crousman, archt. and engr., 370 East 149th St., having plans prepared 6 story 75 x 80 ft., brick, steel and stone, plain foundation, Weeks Ave. $175,000.

N. Y., New York—Apartment—Success Building Co., c/o Meisner & Uffner, archts. and engrs., 565 West Tremont Ave., having plans prepared 6 story, 75 x 85 ft., brick, steel and stone, plain foundation, Bronx Park South. $150,000.

N. Y., New York—Loft—D. Zuckerman, Inc., c/o Shampan & Shampan, archts. and engrs., 189 Montague St., Brooklyn, having plans prepared 12 story, brick, steel and stone, plain foundation, 236 West 26th St., here. $800,000.

N. Y., Troy — Garage — T. S. Watkins, Troy, plans 3 story, 150 x 200 ft., rein.-con. and steel garage, Fulton St. $250,000. Engineer and architect not announced.

Pa., Greensburg — Hospital — Westmoreland Hospital Assn. having plans prepared by E. L. Tilton, archt., 141 East 45th St., New York City, and E. P. Mellon, archt., 350 Madison Ave., New York City, and Bartholomew & Smith, associated archts., Greensburg, 3 story and basement, 50 x 150 ft., brick and stone hospital. $150,000.

Pa., Lancaster — Station — Pennsylvania R.R., Broad St. Sta., Phila., having sketches and preliminary plans prepared by W. H. Cookman, Broad St. Station, Phila., 2 story and basement, 60 x 200 ft., brick and steel, plain foundation, incl. two 1,200 ft. concrete platforms, and concourse bridge, on main line Trenton Cutoff, etc., here. $1,500,000.

Pa., Warren — Bank — Warren Savings Bank & Trust Co. having plans prepared by W. L. Stoddard, 50 East 41st St., New York City, 1 story, basement and mezzanine, brick on hollow tile and limestone. $400,000.

Md., Baltimore—Academy—Academy and Convent of the Visitation, Park Ave. and Centre St., having plans prepared by F. J. Baldwin, 328 North Charles St., 4 story and basement, 200 x 250 ft., stone, plain foundation, Belvidere and Roland Aves. $1,000,000.

Fla., Clearwater—Schools—Pinellas Co. plans election $1,160,000 bonds for school in St. Petersburg; $165,000 bonds for school in Clearwater; $235,000 bonds for schools in Safety Harbor, Largo Dist. and Dunedin. J. H. Brown, Clearwater, co. clk.

Fla., Miami—Business and Apartment—A. J. Clayton having plans prepared by R. A. Preas, 10 story, business and apartment building, Northeast 13th Terrace and 1st Ave. $275,000.

Fla., Olympia—Hotel—Olympia Impvt. Co. and associates, plan hotel. $350,000.

Fla., Sarasota—Hotel—M. F. Schiavone, 10 East La Salle St., Chicago, Ill., plans Riviera Hotel, 12 story, 105 x 200 ft., Main St.

Ala., Birmingham—Office—Southern Bell Telephone Co., 1921 5th Ave. N., plans to expend during 1925 and 1926, $3,000,000 for improvements in Birmingham, and approximately $8,193,700 during next 5 years for improvements, inc. 5 or 6 story building.

La., Monroe—Office—See "New Orleans, La."

La., New Orleans — Exchanges, etc. — Cumberland Telephone & Telegraph Co. plans to spend $9,636,000 for improvements and construction of 3 new exchanges, here, also reconstruction of offices in Monroe and Shreveport, etc.

La., New Orleans — Temple — Masonic Assn. having plans prepared by S. Stone, 714 Union St., and takes bids about Mar. 1, 16 story, 103 x 170 ft. temple, 225 ft. high, St. Charles and Perdido Sts. $2,250,000.

La., Shreveport—Office—See "New Orleans, La."

Tenn., Memphis — Warehouse — N. O. Nelson Mfg. Co., had plans prepared by Jones & Furbringer, Porter Bldg., and soon takes bids 2 story and basement, 210 ft. front, rein.-con. and brick, Linden St. and west of Southern R.R. track. $200,000.

Tenn., Nashville—High School—Bd. Educ. plans 4 new high school buildings in various parts of city. $1,000,000. H. E. Howse, mayor. Engineer and architect not selected.

O., Akron—Church and Sunday School—North Hill Methodist Episcopal Church, c/o E. S. Smith, 373 Perkins St., pastor, having preliminary plans prepared by Martin, Orr & Martin, 190 North Bway., Columbus, 1 and 2 story, brick, steel and concrete church and Sunday school building. $200,000.

O., Alliance—Mercantile and Office—J. H. Johnson & Sons Co. take bids in spring 6 story, 30 x 129 ft., brick, steel and concrete, Main St. $150,000.

O., Cincinnati—Apartment—F. A. Schmitt Co., 5th and Main Sts., having plans prepared by Fechheimer, Ihorst & McCoy, 1010 Schmidt Bldg., 4 story and basement, 150 x 170 ft., rein.-con. and brick, plain foundation, Woodburn Ave. $250,000.

O., Cleveland—Commercial and Garage—Rockwell Building Co., c/o Miller & James Co., archts., Erie Bldg., having plans prepared 3 and 4 story, 60 x 100 ft., and 66 x 80 ft., brick, steel and concrete, 717 Superior Ave. $200,000.

O., Cleveland — Hospital — Anti-Tuberculosis League c/o. J. C. Placek, doctor, 8314 Euclid Ave., plans brick, steel and concrete hospital. Engineer and architect not selected.

O., East Cleveland (Cleveland P. O.)—Apartment — Euclid-Hastings Co., c/o S. Glaser, 201 Ulmer Bldg., Cleveland, having preliminary plans prepared by L. R. Walker, 1900 Euclid Ave., Cleveland, 3 story, about 50 x 200 ft., brick and timber, 16,001 Euclid Ave., here. $200,000.

O., Euclid—School, etc.—Bd. Educ., J. B. Clark, clk., 1550 Chardon Rd., having plans prepared by Fulton & Taylor, 8120 Euclid Ave., Cleveland, 2 story and basement, 66 x 145 ft. school with 40 x 48 ft. boiler house, brick, steel and concrete, Upson Rd. $200,000. Noted Nov. 20.

O., Middletown—Church—St. Johns Congregation, soon lets contract 2 story and basement, 68 x 142 ft., rein.-con. and brick, 1st and Curtis Aves. $175,000. M. M. Jackle, Dayton, archt.

Mich., Dearborn—Theatre and Store—C. E. Schley, archt., 1121 Lafayette Bldg., Detroit, preparing plans 2 story and part basement, 60 x 150 ft. and 50 x 100 ft., rein.-con., brick and steel, plain foundation. $150,000. Owner's name withheld.

Mich., Detroit—Apartment—J. Kasurin, archt., 502 Empire Bldg., prepared plans 4 story and basement, 90 x 150 ft., brick, steel and stone, plain foundation, Dexter Blvd. $275,000. Owner's name withheld.

Mich., Detroit—Theatre—D. T. Nederlander, 11 Campus Martius, having plans prepared 2 story and basement, 100 x 168 ft., rein.-con., brick and steel, plain foundation, Woodward Ave. and Six Mile Rd. $500,000. Engineer and architect's names withheld.

Mich., Lansing — Office — Michigan Employers Casualty Co., having plans prepared by E. A. Bowd, Lansing, 4 story and basement, 52 x 120 ft., rein.-con., brick and steel, plain foundation, Capitol Ave. $150,000.

Ill., Cairo—Armory—Dept. Pub. Wks., Springfield, making preliminary plans National Guard armory building, 2 story, rein.-con. and stone. $150,000. W. J. Lindstrom, 707 South 8th St., Springfield, acting supt.

Wis., Milwaukee — Apartment — W. J. Kozick, archt., 664 26th St., preparing plans 4 story, 50 x 100 ft., brick and tile, plain foundation, Vliet St. $150,000. Owners name withheld.

Wis., Milwaukee—School—St. Marys Congregation, c/o J. Van Treeck, pastor, had plans prepared by T. F. Imbs, 105 North 7th St., St. Louis, Mo., and soon takes bids 3 story and basement, 97 x 110 ft., brick and tile, plain foundation. $175,000.

Wis., Milwaukee — Store — Boston Store, 319 Grand Ave., having plans prepared by Barkhausen & Logemann, 79 Wisconsin St., 1 story, 100 x 200 ft., steel and white glazed brick addition, Sycamore St. $150,000.

Wis., Milwaukee — Synagogue — Beth Israel Congregation, c/o S. Michel, 175 Queen Ann Pl., had plans prepared by H. H. Bruns, 845 26th St., 2 and 1 story and basement, 78 x 130 ft., brick and tile, plain foundation, Teutonia Ave.; excavation work, to H. J. Wussow, 183 Concordia Ave. Total $185,000. Noted Jan. 29.

Wis., Racine—Apartment—W. M. Lewis, 202 Badger Bldg., plans 6 story and basement, brick, tile and concrete, plain foundation, Main St. $260,000. Engineer and architect not selected.

Minn., Bloomington (Minneapolis P. O.)—Lodge, etc.—Minnesota Masonic Home Corp., c/o A. F. Pray, 300 Oneida Bldg., having plans prepared by Bertrand & Chamberlin, 616 Northwestern Bank Bldg., Minneapolis, 3 story and basement, 50 x 275 ft., rein.-con. and brick lodge, and 1 story, 100 x 100 ft. brick power house, at Masonic Home. $300,000.

Minn., Minneapolis — Clubhouse—Zuhrah Temple Assn., G. W. Critten, pres., 515 Lumber Exch., plans 3 or 4 story and basement, rein.-con., brick, stone and tile, Lyndale Ave. and Superior Blvd. $300,000. Engineer and architect not announced.

Minn., St. Paul—Hospital—Ramsey Co. Bd. Control, O. J. Tong, secy., Court House, takes bids probably in March, 4 story and basement, 150 x 160 ft., rein.-con., brick and stone addition, Jefferson and Colburn Sts. $400,000. Buechner & Orth, 500 Shubert Bldg., archts.

Kan., Lawrence—Memorial—Kansas University Memorial Assn., c/o S. G. Elliott, soon takes bids on (1st unit) 3 story and basement, 75 x 150 ft., concrete, brick and stone, on campus. $250,000. Pond & Pond, 6 North Michigan Ave., Chicago, archts. Goldwin & Goldsmith, 306 Marion Bldg., Lawrence, associated archts. Noted July 3.

Kan., Newton — High School — Election Mar. 10, $215,000 bonds for Junior High School building.

Mo., Kansas City—Church—C. Smith, archt. and engr., 800 Finance Bldg., soon takes bids 1 story and basement, 85 x 115 ft., steel and stone, plain foundation, 65th St. and Wornall Rd., for Sixth Church Christ Scientists. $225,000.

Mo., Kansas City — High School — Bd. Educ., Library Bldg., soon takes bids 3 story and basement, rein.-con. and brick, plain foundation, 17th St. and Van Brunt Blvd. $395,000. C. Smith, 800 Finance Bldg. archt. and engr.

Mo., Kansas City — High School — Bd. Educ., Library Bldg., soon takes bids 3 story and basement, 150 x 220 ft., brick, plain foundation, Independence Ave. and Chelsea St. $360,000. C. Smith, 800 Finance Bldg., archt. and engr.

Tex., Corpus Christi—Bank and Office—City Natl. Bank, soon lets contract 6 story, brick, stone and rein.-con. addition. $150,000. R. H. Cameron, 1116 City Natl. Bank Bldg., San Antonio, archt.

Tex., Dallas—Dormitory—E. W. Shuler, pres. Southern Methodist University, soon takes bids 2 story and basement, 176 x 185 ft., rein.-con. and brick, plain foundation. $150,000. C. D. Hill, Central Bank Bldg., archt.

Tex., Houston — High Schools — H. L. Mills, bus. mgr. Bd. Educ., soon takes bids Montrose High School, Woodhead and Westheimer Sts., $300,000, R. D. Steel, 1st Natl. Bldg., and Jones & Tabor, Union Natl. Bdg., associated archts.; South Junior High School, Almeda Rd. and Wentworth Ave., $400,000, Sanguinet, Staats & Hedrick, 1st Nalt. Bldg., Ft. Worth, archts.; Houston Heights Senior High School, Columbia and 14th Sts., $500,000, L. A. Glover, Bing Bldg., and J. F. Staubs, 2nd Natl. Bank Bldg., associated archts., all rein.-con. and brick, plain and concrete pile foundations. R. J. Cummins, Bank Mortgage Bldg., engr., and W. W. Watkins, Scanlon Bldg., consut. archt. for all. Noted Dec. 18.

Tex., San Antonio — Theatre — W. J. Lytle, Princess Theatre, having plans prepared by A. B. and R. M. Ayres, Bedell Bldg., and takes bids about Apr. 17, 4 story and part basement, rein.-con. and steel, plain foundation, Houston, River and Travis Sts. $1,500,000.

Tex., Wichita Falls—Hospital—A. Lee, Keill & Jones, having sketches made Wichita Falls Medical & Surgical Clinic, 4 story and basement, 60 x 168 ft., rein.-con., brick and stone, 8th and Bluff Sts. $200,000. Engineer and architect not announced.

Okla., Newkirk—Court House—Kay Co. and C. H. Woodruff, archt., Reynolds Bldg., Ft. Worth, Tex., soon take bids 3 story and basement, 75 x 120 ft., rein.-con., brick and steel, plain foundation. $200,000.

Okla., Norman — Union — University of Oklahoma had plans prepared by Sorey & Vallberg, Braniff Bldg., Oklahoma City, 2 story and basement, 80 x 175 ft., rein.-con. and brick, plain foundation, on campus. $150,000.

Okla., Tulsa — Church — Sacred Heart Catholic Church Congregation making preliminary plans 1 story, 60 x 190 ft., rein.-con. and brick, plain foundation, Boulder St. $300,000. Engineer and architect not selected.

Okla., Walters—Court House—Cotton Co. voted $160,000 bonds for court house, incl. 2 story and basement, 80 x 175 ft., rein.-con. and brick, plain foundation, Grand St. $160,000. Tonini & Bramblet, Terminal Bldg., Oklahoma City, archts.

Colo., Denver—Bank and Office—Midland Savings & Loan Co., 17th and California Sts., takes bids in March, 5 story, 50 x 125 ft., rein.-con., Bedford or Colorado marble, 17th and Glenarm Sts. $500,000. Fisher & Fisher, U. S. Natl. Bank Bldg., archts.

Colo., Grand Junction — Schools — Voted $275,000 bonds for 3 grade and 1 Junior high school, also high school. E. Groves, Foster Bldg., Denver, archt.

Wash., Seattle—Office—J. K. McDowell, Marion Bldg., having plans prepared by A. McQuaker, Mehlhorn Bldg., 12 story, 111 x 115 ft., rein.-con. and terra cotta, 3rd and Union Sts. $750,000.

Buildings—Commercial (Continued)

Ore., Portland — Apartment — Lucas & Cash, archts., Portland, take bids about Apr. 27, 5 story, 100 x 100 ft., rein.-con. and part timber, plain foundation, Marshal and 22nd Sts., for Lawrence Apartment Co. $150,000.

Ore., Portland — Hospital — Sutton & Whitney, archts., Lewis Bldg., take bids about Apr. 12, 3 story, 100 x 100 ft., rein.-con. and brick, plain foundation, 212 Stanton St., for Emanual Charity Bd. $175,000.

Calif., Beverly Hills — Club — Leverly Hills Womens Club, plans clubhouse, Benedict Canyon Dr. $150,000. Gable & Wyant, 634 South Western Ave., Los Angeles, archts.

Calif., Beverly Hills—Store and Office—C. L. Peck, H. W. Hellman Bldg., Los Angeles, plans 5 to 8 story, approximately 150 x 150 ft., probably rein.-con., Beverley Dr. and Burton Way. Engineer and architect not selected.

Calif., Long Beach—Office—Pacific Club of Long Beach, c/o D. M. Smith, pres., plans prepared by Curlett & Beelman, 408 Union Bank Bldg., and soon takes bids, general construction, 14 story and basement, 160 x 260 ft., office building, Ocean Ave. and 1st Pl. $900,000.

Calif., Oakland—Theatre, Office and Store —A. Pantages, Pantages Theatre Bldg., San Francisco, plans to purchase site for theatre, office and store building. $3,000,000.

Calif., San Francisco — Hotel — E. Glass, archt., 525 Market St., soon takes bids 6 story and basement, steel and brick, north of Market section. $150,000. Owner's name withheld. Noted Feb. 19.

BIDS DESIRED

N. H., Concord—Temple and Theatre—Mar. 6, by Bek Tash Real Estate Assn., c/o C. R. Whitcher, archt., 814 Elm St., Manchester, 3 story, 100 x 150 ft., brick and steel temple and theatre. $250,000. Noted Jan. 8.

Mass., Haverhill—Clubhouse—Haverhill Country Club, taking bids 3 story, 60 x 150 ft. rein.-con., brick and stucco clubhouse. $150,000. H. F. Kellogg, 110 Summer St., Boston, archt. Noted Jan. 15.

Mass., New Bedford — High School — School Comn. taking bids 3 story and basement, 150 x 225 ft., rein.-con., brick, limestone and granite, plain foundation, County and Margan Sts. $200,000. Browne & Poole, 688 Pleasant St., archt. Noted Jan. 29.

Mass., Pittsfield — Y. M. C. A. taking bids for brick and steel Y. M. C. A. building. $150,000. Harding & Seaver, 7 North St., archts.

Mass., Quincy (Boston P. O.)—Store and Theatre—Mar. 15, by Natl. Theatre c/o Tuck & Co., archts., 636 Warren St., Roxbury Centre, 2 story 60 x 200 ft., brick and steel, Hancock St., here. $200,000.

N. Y., Buffalo — Clubhouse — Elks Club, 211 Delaware Ave., taking bids 6 story, rein.-con. and brick, Delaware Ave. $300,000. Townsend & McNeil, Dun Bldg., archts.

N. Y., New York—Armory—Mar. 5, at office Mayor, City Hall, reconstructing Squadron A armory, at Madison Ave. and 94th St.

N. Y., Wingdale—Hospital—Mar. 18, by State Hospital Comn., Capitol, Albany, alterations to Buildings A and B, mess hall, kitchen, central heating and lighting plant, etc., at Harlem Valley State Hospital, here. S. W. Jones, Albany, state archt; adv. E. N.-R. Feb. 26.

Pa., Phila. — Apartment — Seely & Co., 1504 Locust St., will build 4 story and basement, 36 x 135 ft., brick and steel, plain foundation, 72nd and Woodland Sts. $200,000. Work will be done by separate contracts. Private plans.

Pa., Phila.—Bank—Mar. 9, by Benting & Shrigley, archts., 603 Chestnut St., 5 story and basement, 56 x 90 ft., brick and steel, plain foundation, 10th St. above Chestnut St., for Federal Reserve Bank, 923 Chestnut St.

Pa., Scranton—Store—Feb. 27, by Davis & Lewis, archts., Union Natl. Bank Bldg., 5 story and basement, 57 x 137 ft., brick and steel, plain foundation, Lackawanna and Wyoming Aves. for Scranton Dry Goods Co.

Md., Baltimore—Garage and Warehouse —Feb. 28, by G. F. Masson, pres. Massons Express, 107 West Pratt St., 3 story and basement, 90 x 140 ft., brick and steel, plain foundation, Pratt and Poppleton Sts. $150,000. J. Freund, 1307 St. Paul St., archt.

Md., Baltimore—School—Mar. 11, by Bd. Awards, 1 story and basement, brick, plain foundation, Rokeby Rd., Glen Allen and Dryden Drives. $275,000. W. G. Beecher, 12 East Pleasant St., archt. Kubitz & Koenig, Emerson Tower, engr.

Md., Denton—School—Mar. 5, by Building Com. Denton Pub. School, 3 story and basement, 65 x 134 ft., brick, plain foundation. 150,000. T. W. Pietsch, Amer. Bldg., Baltimore, archt.

Tenn., Knoxville — Hotel — Mar. 6, by Farragut Hotel Co., 526 South Gay St., 9 story, 100 room, rein.-con. and brick addition. $200,000. W. L. Stoddart, 50 East 41st St., New York City, N. Y., archts. Noted Jan. 8.

O., Cleveland — Apartment — Lewin & Kaufman, 11,401 Hopkins Ave., taking bids 3 story and basement, 34 x 99 ft., brick and timber, 1097 East 125th St. $150,000. W. A. Altschuld, 5116 Woodland Ave., archt.

O., Cleveland — Apartment — H. Latin, 1198 East 98th St., taking bids 2 story and basement, 70 x 126 ft., brick and timber, 2734 Hampshire Rd. $150,000. W. Weis, 617 Union Bldg., archt.

O., Cleveland—Medical Library—Feb. 28, by Allen Memorial Library, c/o C. R. Hamann, pres., 2318 Prospect Ave., 3 story, brick, steel and concrete, Euclid Ave. $300,000. Walker & Weeks, 1900 Euclid Bldg., archts. Noted Jan. 10.

O., Cleveland—Store and Apartment—Gund Realty Co., c/o L. F. Roether, secy., 1476 Davenport Ave., taking bids 3 story and basement, 100 x 100 ft., brick and timber, East 55th St. and Superior Ave. $175,000. C. J. French, Plymouth Bldg., archt.

O., Dayton — School — Mar. 17, by Bd. Educ., 216 Ludlow Bldg., C. J. Schmidt, secy., 2 story and basement, rein.-con., brick and stone, plain foundation, Troy and Lee Sts. $500,000. Architectural Dept. Bd. Educ., archts.

O., Shaker Heights (Cleveland P. O.)—Schools—Mar. 9, by Bd. Educ., J. W. Main, clk., Woodland and Woodbury Rds. clk., 3 story and basement, Lee Rd. and South Moreland Blvd., $350,000; and 2 story and basement, Southington and Drexmore Rds., $200,000, both brick, steel and concrete. C. W. Bates, 77 12th St., Wheeling, W. Va., archt.

O., Warren—Bank and Office—Mar. 2, by Union Savings & Trust Co., R. A. Cobb, chn., 9 story and basement, 53 x 114 ft., brick, steel and concrete. $500,000. Keich, O'Brien & Hosker, Warren, archts. Noted Dec. 25.

O., Youngstown—Armory—Mar. 12, by F. D. Henderson, Adj. Gen. State Building Comn., Columbus, for Ohio State Armory, 2 story, 144 x 188 ft., rein.-con. and brick, here. F. W. Elliott, Columbus, archt.

Mich., Detroit—School—Mar. 6, by C. A. Gadd, secy. Bd. Educ., 1354 Bway. Ave., 2 story and basement, 100 x 145 ft., rein.-con., brick and steel, plain foundation, Plymouth Rd. $200,000. McGrath & Page, 2231 Park Ave., archts.

Mich., Eloise—Infirmary—Mar. 4, by H. H. Prenzlauer, secy. Bd. Wayne Co. Supt. of Poor, City Serv. Bldg., Detroit, 3 story and basement, rein.-con., brick and steel, plain foundation, here. $400,000. Maul & Lentz, 1259 David Whitney Bldg., Detroit, archts.

Mich., Warren—School—Mar. 9, by J. M. Vedder, secy. Bd. Educ., 2 story and basement, 38 x 77 ft., 63 x 145 ft. with 42 x 55 ft. ell, rein.-con. and brick, plain foundation. Warren Holmes Powers Co., Lansing, archts.

Wis., Milwaukee — Apartment — A. C. Runzler, archt., 144 Oneida St., taking bids 3 story and basement, 50 x 132 ft., brick and tile, plain foundation, Royall Pl. $150,000. Noted Feb. 19.

Minn., Minneapolis—Lodge—Mar. 2, by Cataract Lodge A. F. & A. M., A. Jenson, secy. Building Com., 4907 Colfax Ave., 5 story and basement, 98 x 155 ft., rein.-con., brick, tile and terra cotta. $275,000. Fallows & Huey, 501 New York Life Bldg., and W. K. Macomber, 1028 Andrus Bldg., archts.

Tex., Houston—High Schools—Mar. 6, by H. L. Milos, bus. mgr. Bd. Educ. 3 story and basement addition to Northill Junior High School, $400,000. Driscoe & Dixon and Maurice & Sullivan, 2nd Natl. Bank Bdg., associated archts.; Eastwood Junior High School, 3 story and basement, Polk and Baird Sts., $400,000, J. Finger, Woolworth Bldg. and Endress & Cato, Bank Mortgage Bldg., associated archts., both rein.-con. and brick, plain and concrete pile foundations. R. J. Cummins, Bank Mortgage Bldg., engr., and W. W. Watkins, Scanlon Bldg., consult. archt. for both projects. Noted Dec. 18.

Tex., Houston—Office—N. Esperson, Natl. Bank Bldg., and J. Eberson, archt., 212 East Superior St., Chicago, Ill., taking bids and opens same Mar. 1, 24 story and basement, 150 x 155 ft., brick and steel, plain and concrete pile foundation, Travis St. $2,000,000.

Calif., Los Angeles — Club and Store — Walker & Eisen, archts., Great Republic Bldg., taking bids 4 story and basement, 75 x 140 ft., rein.-con., Grand Ave. for Masonic Club, Alexandria Hotel. $150,000. Noted Jan. 29.

Calif., Ventura—Store and Hotel—C. L. Jay, archt., 845 East Washington St., Pasadena, taking bids 5 story and basement, 150 x 150 ft., brick and cast stone, for Berg Investment Co., c/o architects. $150,000 or more. Noted Jan. 29.

B. C., Vancouver—Store—Mar. 7, by Woodwards Ltd., Hastings and Abbott Sts., 6 story and basement, 88 x 152 ft., rein.-con., brick and tile addition, Abbott and Cordova Sts. $250,000. Private plans. P. P. Brown, 410 London Bldg., engr.

BIDS RECEIVED

N. Y., Jamaica — High School — W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, Feb. 19, Jamaica High School, here, for Bd. Educ., 500 Park Ave., New York City, general contract, from Lustbader Constr. Co., 423 Madison Ave., New York City, $2,083,980; plumbing, from T. E. O'Brien, Inc., 6311 5th Ave., Brooklyn, $123,480; heating from Heat Control Serv. Co., 159 Park Pl., Brooklyn, $219,000. Noted Jan. 29.

D. C., Wash. — Gymnasium — Dept. Interior, from W. L. Morrison Constr. Co., Wash., D. C., constructing gymnasium and armory building, at Howard University, $124,800 (240 days), also athletic field $33,750 (180 days).

Md., Baltimore—Police—Bd. Awards, 5 story and basement, 160 x 237 ft., brick and steel, plain foundation, Lexington and Fallsway Sts., from Sinclair & Grigg, Medical Arts Bldg., Phila., Pa., $971,000. Noted Feb. 12.

Calif., Los Angeles—School—City Garfield High School, general contract 2 story and basement, brick and concrete, 6th St. and Frasier Ave., from B. D. Kronnick, 3623 South Park Ave., $417,000; heating and plumbing, from Hickman Bros., 471 West 8th St., San Pedro, $55,063; plumbing, from Ashworth & Gallop, 5853 Moneta Ave., $39,690.

CONTRACTS AWARDED

Mass., Boston—Club—Boston Lodge of Elks, 10 Somerset St., 13 story and basement, 116 x 117 x 170 ft., brick, steel and limestone, Tremont St., near Hollis St., to W. A. and H. A. Root, Park Sq. Bldg. Archts. est. $3,000,000. Noted Jan. 8.

Mass., Boston—Store and Office—Mayflower Trust Co., c/o Parker, Thomas & Rice, Archts., 177 State St., altering and constructing 3 story and basement, 75 x 125 ft. addition, 352 Boylston St., to W. A. Wentworth Co., 107 Pacific St., Cambridge. Archts. est. $150,000.

Mass., Jamaica Plain (Boston P. O.)—School — Schoolhouse Dept., City Hall, Boston, 3 story and basement, 70 x 130 ft., Elm St., here, to McDonald & Imhoff, 164 Dudley St., Roxbury, $333,720. Noted Feb. 5.

Mass., Lowell—School—Roman Catholic Diocese, c/o A. O'Connor, 25 Granby St., remodeling 3 and 4 story and basement, 125 x 200 ft., concrete, brick and granite jail into preparatory school for boys, Thorndike St., to D. H. Walker, 529 Dutton St. Archts. est. $300,000.

Conn., Derby—School—School Comn., City Hall, 3 story, 100 x 220 ft., brick, Minerva St., to Hession Bros., 31 10th St., $134,200. Noted Jan. 15.

N. Y., New York—Apartment—Monitor Realty Co., c/o Margon & Glaser, archts. and engrs., 2804 3rd Ave., will build 6 story, 50 x 185 ft., brick, steel and stone, plain foundation, Wadsworth Terrace, by day labor. $250,000.

N. Y., New York—Apartment—Monitor Realty Corp., c/o Margon & Glaser, archts. and engrs., 2804 3rd Ave., will build 5 story, 100 x 100 ft., brick, steel and stone, plain foundation, Fairview Ave., by day labor. $250,000.

N. J., Camden—Hospital—Lacky & Hettle, archts., 5 Hudson St., 5 story and basement, 64 x 68 ft. addition, Mt. Ephraim and Atlantic Aves., ot H. J. Homan Co., 18th and Cherry Sts., Phila., Pa., for West Jersey Homeopathic Hospital, 3220 Federal St.

Buildings—Commercial (Continued)

Del., Wilmington — School — Bd. Pub. Educ., City Hall, general contract Bancroft School, 3 story and basement, 102 x 238 ft., Lombard St. between 7th and 8th Sts., to H. J. Homan Co., 18th and Cherry Sts., Phila., Pa., $339,064; plumbing, heating and ventilating, to T. T. Weldin & Son, 916 Orange St., Wilmington, $80,900. Noted Jan. 22.

Va., Charlottesville — Hotel — Jackson Park Hotel Co., c/o S. S. Johnson & R. O. Brannan, archts., Peoples Bank Bldg., Lynchburg, 9 story and basement, 65 x 100 ft., rein.-con., brick and steel, plain foundation, to Consolidated Eng. Co., 20 East Franklin St., Baltimore, Md., $400,000. Noted Jan. 29.

W. Va., Huntington—Synagogue— Chev Sholem Congregational, general contract 4 story and basement, 66 x 100 ft. synagogue, 16th Ave. and 10th St., to C. H. Smith, R. & P. Bldg., Huntington. Archts. est. $200,000.

Fla., St. Petersburg—Warehouse—See "Unclassified."

O., Cleveland—Apartment—A. Rothenberg, 2163 Ontario St., 3 story and basement, 38 x 177 ft., brick and timber, 2049 Cornell Rd., to S. Grafchis, 3325 East 125th St. Archts. est. $150,000. Noted Nov. 13.

O., Cleveland—Commercial—Giddings Sq. Building Co., c/o A. B. Symith, pres., 200 Erie Bldg., 2 story and basement, 202 x 275 ft., brick, steel and concrete, East 71st St. and Euclid Ave., to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $250,000.

O., Cleveland — Commercial — J. W. Wilson, 8314 Euclid Ave., 4 story and basement, 90 x 155 ft., brick, steel and concrete, 5205 Euclid Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $250,000. Former contract rescinded. Noted Jan. 29.

O., Cleveland — Theatre and Store — Owner, c/o L. Abrams, Engineers Bldg., 1 story, 1,000 seating capacity, brick, steel and concrete, East 124th St., and Superior Ave., to C. W. Grove Constr. Co., 1900 Euclid Bldg. Archts. est. $250,000. Noted Jan. 29.

O., Toledo — Club — Mills, Rhines, Bellman, & Nordhoff, archts., Ohio Bldg., 5 story and basement, 92 x 100 ft., rein.-con. and brick, 14th St., and Madison Ave., to H. J. Spieker Co., Elm and Utica Sts., for Toledo Club. $225,000. Noted Dec. 11.

O., Willard—High School—Bd. Educ., 2 story and basement, 152 x 166 ft., brick, steel and concrete, to Baker & Shindler, Defiance, $110,400. Noted Dec. 11.

Mich., Pontiac—Infirmary—Oakland Co. Poor Bd., 3 story and basement, brick, steel and stone, plain foundation, to F. R. Patterson Constr. Co., 2631 Woodward Ave., Detroit, $213,000.

Wis., La Crosse — Home — La Crosse Catholic Diocese, M. Pollock, pastor, c/o St. Michaels Orphanage, 3 story and basement, 82 x 143 ft., brick and concrete, plain foundation, Cass St., to R. F. Conlon, Dubuque, Ia. Archts. est. $150,000. Noted Feb. 19.

Wis., Milwaukee — Bank — North Ave. State Bank, 3506 North Ave., masonry, concrete and excavation contract for 1 story and basement, 60 x 120 ft., brick, concrete and stone, plain foundation, North Ave., to F. Wilke, 1253 36th St.; carpentry, to P. Lauer, 3934 Vliet St. Archts. est. $150,000.

Minn., St. Paul—School—H. W. Austin, city purch. agt., general contract 3 story and basement, rein.-con., brick, stone and tile, East 3rd and Earl Sts., to W. M. Lindau Constr. Co., 220 Guardian Life Bldg., about $165,000. Noted Jan. 8.

Minn., St. Paul — School — Dept. Educ., L. R. S. Ferguson, comr., City Hall, general contract 3 story and basement, rein.-con., brick, stone and tile, Fulton and Palace Sts., to Federal Constr. Co., Globe Bldg., $146,000. Noted Jan. 15.

Neb., Kearney — High School — G. E. Haase, secy. Bd. Educ., Junior High School, 2 story and basement, 120 x 250 ft., brick and concrete, to Knutzer & Son, Kearney, $160,743. Noted Jan. 29.

N. D., Fargo—Hospital—St. Johns Hospital, general contract 5 story and basement, 44 x 140 ft., rein.-con., brick and tile addition, to T. F. Powers Constr. Co., 419 8th St. N., about $325,000.

Mo., St. Louis—Apartment—Kingshighway Apartment Co., c/o C. F. A. Bruggeman, archt., 506 Olive St., general contract 6 story and basement, 90 x 180 ft., rein.-con., brick and stone, Laclede St. and Buckingham Court, to J. Bright Constr. & Building Co., Arcade Bldg.

Mo., St. Louis—Office—Roxana Investment Co., c/o Roxana Petroleum Corp., Arcade Bldg., general contract, 12 story and basement, 102 x 196 ft., brick, stone, concrete and steel, Locust and 13th Sts., to Gamble Constr. Co., 620 Chestnut St., approximately $500,000. Noted Feb. 12.

Tex., Amarillo—Office—Amarillo Building Co., 8 story and basement, 50 x 140 ft., brick and steel, plain foundation, 3rd St., to Fred Stone & Co., 909 Taylor St., $475,000 cost plus percentage basis. Noted Jan. 29.

Tex., Corpus Christi — New State Hotel, V. M. Donigan, proprietor, 4 story and basement, 100 x 100 ft., rein.-con. and brick, plain and concrete pile foundation, to Wagner & Son, San Antonio, approximately $600,000.

Tex., Dallas—Warehouse—S. W. Carrington, archt., Western Indemnity Bldg., 3 story and basement, 125 x 550 ft., rein.-con. and brick warehouse, plain foundation, to S. S. Self, Western Indemnity Bldg., $300,000. Owner's name withheld.

Wash., Seattle—Apartment—J. North, 5 story, 120 x 120 ft., masonry apartment, 1617 Yale Ave., to H. Pederson, Alaska Bldg., $270,000.

Calif., Long Beach—Theatre, Office, etc.—West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles, general contract 2 story, 145 x 190 ft., rein.-con. and brick, West Manchester Ave., to W. G. Reed, 814 Pacific Southwest Bank Bldg., $162,500. Noted Jan. 1.

Calif., Los Angeles—Warehouse—A. C. Martin, archt., Higgins Bldg., 8 story, 50 x 130 ft., rein.-con., Pico St. and Normandie Ave., to Davidson Constr. Co., 1445 East 16th St., for A. Wohlfarth, 1607 Pleasant Ave., $89,500. Noted Feb. 12.

Calif., San Diego — Auditorium — Bd. Educ., general contract concrete and steel auditorium, 2,500 seating capacity, for San Diego High School, to Reed Constr. Co., Spreckles Bldg., $186,000. Noted Apr. 10.

Calif., San Francisco—Apartment—T. Hamill, 6140 Geary St., will build 5 story and basement, rein.-con., Geary St. near 27th Ave., by day labor. $175,000. M. Morrison, 604 42nd Ave., archts.

Que., Sherbrooke — Gymnasium, etc. — Normal School Bd., constructing gymnasium chapel, dormitory, etc., to Collet & Bros., 243 St. Hubert St., Montreal. Archts. est. $300,000.

Federal Government Work

PROPOSED WORK

H. T., Pearl Harbor—Fence—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids boundary fence, at Naval Operating base, here.

BIDS DESIRED

R. I., Providence — Dredging — Mar. 27, U. S. Engineer Office, dredging Connecticut River below Hartford; adv. E. N.-R. Feb. 26.

N. Y., Buffalo—Generator Unit—Mar. 16, by Supt. Lighthouses, 34 hp. engine generator unit; adv. E. N.-R. Feb. 26.

S. C., Charleston—Dredging—Mar. 28, by U. S. Engineer Office, dredging Sampit River and Western Channel, Winyah Bay. adv. E. N.-R. Feb. 26.

BIDS RECEIVED

D. C., Wash.—Garage—Treas. Dept. at office Supervising Archt., Wash., D. C., constructing 1 story garage for fuel yards, here, from Virginia Eng. Co., Newport News, Va., $144,000. Noted Feb. 12.

Ill., Great Lakes — Water Intake — Spec. 5044—Bureau Yards & Docks, Navy Dept., Wash. D. C., water intake extension at Naval Training Station, here, from G. A. Green, 1000 South Jackson St., Green Bay, Wis., (1) $97,150 (1a) $94,150 (b) $92,000 (2) $65,500 (3) $62,250 (4) $24 (5) $30 (6) $1,800. Noted Feb. 5.

Wash., Keyport—Extension—Spec. 5040—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to Torpedo Storehouse, here, from C. H. Schaar, 721 21st Ave., Seattle, (1) $39,774 (2) $4,107 (3) $450. Noted Jan. 15.

P. I., Cavite—Radio Tower—Spec. 5057—Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing 210 ft. steel radio tower, here, from Pittsburgh—Des Moines Steel Co., Virginia R.R. and Power Bldg., Richmond, Va., (1) $7,130 (2) $6,550. Noted Jan. 15.

CONTRACTS AWARDED

Wash., Puget Sound—Repairs, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs and fitting out piers here to Henry & McPhee, Seaboard Bdg., Seattle, $1,190,000. Noted Feb. 12.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

568—Bunker Hill & Sullivan Mining & Concentrating Co., Kellogg, Idaho—Wants license for 12 ft. rock fill crib dam with wood stave pipe conduit, 1,600 ft. long and steel penstock to power house in Stratton Creek, Valley Co., near Cascade.

569—A. L. Aprin, San Juan, Porto Rico and Florence, Ala. — Wants preliminary permit for diversion of Hicaco, Cubuy, Sabana, and Prieto streams to power house near their junction with Rio Blanco, in Naguabo municipality.

570—Appleton Land, Water & Power Co. 604 Washington Bldg., Los Angeles, Calif.—Wants preliminary permit for dam in Deep Creek, San Bernardino Co., about 3 mi. above intake at Hesperia Ditch, forming reservoir about 1,000 acre ft. capacity.

571—W. H. Meredith, 105 North Main St., Poplar Bluff, Mo.—Wants preliminary permit for 130 ft. dam across Black River about 3 mi. from Piedmont, creating reservoir about 14,000 acres in area and 800,000 acre ft. capacity, Wayne and Reynolds Counties.

573 — Oklahoma Gas & Electric Co., Oklahoma City, Okla.—Wants license for transmission line across land owned by Shawnee Manual Training School, Pottawatomie Co.

574—Montana Light & Power Co., 922 Old Natl. Bank Bldg., Spokane, Wash.—Wants license for transmission line in Lincoln Co., in Kootenai National Forest.

575 — Eastern States Development Co., Wheeling, W. Va.—Wants preliminary permit for dam in New River, just below mouth of Meadow Creek, near Old Tow, Va., creating reservoir extending about 20 mi. upstream, to completely regulate New River, discharging flood waters through power tunnel from Meadow Creek to power house on headwaters of Fisher River, a tributary of the Yadkin, and 4 dams and power houses, etc.

576—Buchan & Heinen Packing Co., 2106 L. C. Smith Bldg., Seattle, Wash.—Wants license for 8 ft. dam in unnamed creek which enters Port Armstrong.

577—California—Oregon Power Co., San Francisco, Calif.—Wants preliminary permit for dam about 3 mi. above mouth of Clearwater River, Douglas Co., Ore., creating storage reservoir, etc.

578—F. B. Allard, 721 18th Ave., North Seattle, Wash.—Wants preliminary permit for power installation in Foss River, King Co. ,about 4 mi. from Skykomish.

579—Inland Power & Light Co., Portland, Ore.—Wants license for transmission line in Franklin Co.

580—A. Moa, Ketchikan, Alaska—Wants preliminary permit for power installation in Fish Creek, about 6 mi. from Hyder.

Unclassified

PROPOSED WORK

Breakwater, etc.—Dennis, Mass.—Commonwealth of Massachusetts, Court House, Boston, plans breakwater at Nobscusset Harbor and sea wall at West Dennis. $25,000. W. F. Williams, Dept. Pub. Wks., Boston, Comr.

Pier—Atlantic City, N. J.—Associated Realty Co., c/o H. A. Stout, archt., Guarantee Trust Bldg., plans 40 x 200 ft. addition to pier.

Stadium — Beaver Falls, Pa. — Geneva College having plans prepared 1 story, rein.-con. stadium, 5,000 seating capacity. $60,000. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs.

Stadium—New Castle, Pa. — Bd. Educ., B. Graham, clk., had plans prepared 1 story, 62 x 300 ft., rein.-con. stadium. $75,000. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs.

Coke Ovens—Clinchfield, Va.—Clinchfield Coal Corp., controlled by Blair & Co., 24 Bway., New York City, plans battery by-product coke ovens, 1,000 tons coal daily capacity and producing 10,000,000 cu.ft. gas, here.

Park, etc. — Daytona, Fla. — Daytona Water Front Co., takes bids in spring improving park, landscaping and small bridge. To exceed $250,000. A. D. Taylor, 4614 Prospect Ave., Cleveland, O., landscape archt.

Unclassified (Continued)

Telephone Improvements — Birmingham, Ala—See "Buildings—Commercial."

Amphitheatre—Cleveland, O.—City W. R. Hopkins, city mgr., having plans prepared by H. Kregelius, City Hall, concrete amphitheatre, Ambler Park. To exceed $150,000.

Street Lighting System—West Bend, Wis.—C. P. Heipp, city clk., soon takes bids ornamental street lighting system incl. concrete posts, cable, etc., for down town district. $60,000. C. H. Shepherd, 38 South Dearborn St., Chicago, Ill., engr. Noted Oct. 9.

Stock Yards, etc.—Lincoln, Neb.—Chicago Burlington & Quincy RR., 547 West Jackson Blvd., Chicago, Ill., had plans prepared stock yards, grading, straightening creek and miscellaneous structures. $300,000. F. T. Darrow, Lincoln, asst. ch. engr. lines west of Missouri River.

Electric Light System—Kirkwood, Mo.—Voted $30,000 bonds repairs to electric light distribution system. C. E. Smith, Railway Exch. Bldg., St. Louis, engr.

Transmission Line—Oklahoma—City of Leedey voted $25,000 bonds for distribution system and transmission line from Leedey to Elk City.

Street Lighting System — Los Angeles, Calif. — Takes bids about Mar. 10, ornamental street lighting system on portions of West Blvd., Catalina and 1st Sts., Pasadena, Harcourt and Ambrose Aves. To exceed $25,000. H. A. Van Norman, City Hall, engr.

Gas Mains — Palo Alto, Calif. — See "Streets and Roads."

Car Barn—San Francisco, Calif.—City and San Francisco Co. plans probably rein.-con. car barn addition, Potrero Dist. $200,000. M. M. O'Shaughnessy, city engr.

Ornamental Street Lighting System—San Diego, Calif.—Plans 160 Union Metal lamp standards, Design 1775, on 8th, 9th, 10th, 11th and 12th Sts., between Bway. and Market St. To exceed $25,000. F. A. Rhodes, City Hall, engr.

Overhead Crossing — San Luis Obispo, Calif. — State Hy. Comn., Sacramento, making preliminary plans overhead crossing over Southern Pacific R.R. tracks. $100,000. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Power Development—Ottawa, Ont.—Provincial Government, Toronto, plans to develop 100,000 hp. at Chats Falls, about 25 mi. above here, and at Roche Fondu, near Calumet Island, on Ottawa River. $800,000.

BIDS DESIRED

Underpass — Springfield, Mass. — Boston & Albany R.R. Co., South Station, Boston, taking bids Dwight St. underpass, concrete and steel, here. $150,000 or more. F. B. Freeman, South Station, Boston, ch. engr.

Miscellaneous Construction, etc. — New York—Mar. 6, by Bd. Transportation, 49 Lafayette St., New York City, miscellaneous construction, and station finish, on Bway. 4th Ave. and Manhattan-Bronx Rapid Transit R.R. and Eastern Parkway Line, in Brooklyn and Manhattan Boros.

Grain Elevator—Phila., Pa.—Feb. 28, by S. T. Wagner, engr., Reading Terminal, 55 x 143 ft. grain elevator, 142 ft. high, rein.-con., plain foundation, 20th St. and Pennsylvania Ave., for Reading Co., Port Richmond St. $300,000.

Fire Sprinklers—Buffalo, N. Y.—Mar. 25, by State Hospital Comn., Capitol, Albany, automatic fire sprinklers at Buffalo State Hospital, here; S. W. Jones, Albany, state archt.; adv. E. N.-R. Feb. 26.

Fire Alarm System — Willard, N. Y. — Mar. 25, by State Hospital Comn. Capitol, Albany, fire alarm system at Willard State Hospital, here. S. W. Jones, Albany state archt.; adv. E. N.-R. Feb. 26.

Pier—Grosse Pointe Farms, Mich.—Mar. 2, by E. P. Walter, engr., Kerby Rd., pier in Lake St. Clair at foot of Moross St., 935 lin.ft. of pier with bents spaced 8 ft., and 850 ft. of close row stone filled pier for harbor protection, for Village. $25,000.

Park Improvements—Ft. Worth, Tex.—Mar. 7, by Park Bd. c/o G. C. Clark, supt., improvements to Burk Burnett Park. $50,000. F. J. Von Zuben, Ellison Bldg., engrs.

BIDS RECEIVED

Athletic Field—Long Island, City, N. Y.—Park Bd., Municipal Bldg., New York City, Feb. 19, athletic field, etc., in Forest Park, from L. DiMinna, 2366 Lorrilard Pl., New York City, $92,683. Noted Feb. 12.

CONTRACTS AWARDED

Tunnels, etc.—Providence, R. I.—Narragansett Electric Light Co., Turks Head Bldg., flume tunnels, etc., to Jarrett-Chambers Co., Inc., 30 East 42nd St., New York City. Noted Jan. 22.

Grain Elevator — Buffalo, N. Y. — Superior Elevator Co., Chamber of Commerce, rein.-con. elevator, Buffalo River, to J. Stewart & Co., 343 South Dearborn St., Chicago, Ill., $250,000.

Pier Shed—New York, N. Y.—M. Cosgrove, comr. Docks, Pier A, foot Battery Pl., pier shed and bulkhead shed for Pier 2, North River, Contr. 1847, to O'Day Constr. Co., 1639 Bway., $406,954. Noted Feb. 19.

Plumbing, Heating, etc. — Wilmington, Del.—See "Buildings—Commercial."

Wharf, etc.—St. Petersburg, Fla.—For Bayboro wharf and warehouse, to Raymond Concrete Pile Co., St. Petersburg, $341,109. Noted Dec. 18.

Roofing, etc. — New Orleans, La. — Bd. Port Comrs., New Court House Bldg., sheet metal work and glazing on Claiborne Ave. shed to Blattman-Weeser Sheet Metal Wks., 1001 Toulouse St., $28,411, asbestos roofing on middle section of shed to Johns-Mansville Inc., Magazine and Gravier Sts., $38,591, on south and north section of shed to J. J. Clarke Co., New Orleans, $39,419. Noted Feb. 19.

Material and Equipment

PROPOSED WORK

Drills, Barges, etc.—Charleston, S. C.—Salmons Dredging Co., 9 State St., plans to purchase submarine drills, barges, hoisting engines, derricks, etc., for dredging, dock construction, and pipe line at Amba Island, Dutch West Indies.

Flushers and Road Maintainers—Cleveland, O.—City, W. K. Hoare, purch. agt., plans to purchase motor flushers and motor driven road maintainers.

Gravel Pit Machinery—Rochester, Wis.—Racine Co., W. A. Bechthold, Racine, highway comr., plans to purchase electrically operatde outfit for gravel pit, here.

Tractor, etc.—Ashley, N. D.—McIntosh Co. plans to purchase 1 caterpillar tractor, 1 elevator grader, blade grader and covered dump wagons. J. Billigmeier, co. aud.

Piling, etc.—Grand Forks, N. D.—C. J. Evanson, city aud. rejected bids Dec. 24, for 24 pieces 32 ft., 93 pieces 51 ft., and 222 pieces 42 ft. piling, all 6 in. top and 14 in. butt, 160,000 ft. sheet piling, 170,000 ft. dimensions on timbers, 5,500 cu.yd. rock and 2,400 cu.yd. excav. for dam in Red River of the North. Noted Dec. 18.

Road Roller—Modesto, Calif.—Supervs. Stanislaus Co., plan to purchase 10 ton (Austin type) road roller. J. H. Hopkins, co. surv.

BIDS DESIRED

Bituminous Material — Albany, N. Y. — Mar. 10, by A. W. Brandt, comr. highways, 55 Lancaster St., bituminous material, etc.; adv. E. N.-R. Feb. 26.

Tractor—Hoboken, N. J.—W. F. Stocker, 501 8th St., in market for caterpillar tractor, gas driven.

Cranes—Allenport, Pa.—Pittsburgh Steel Co., Union Trust Bldg., Pittsburgh, taking bids 8 cranes, 7½ to 20 ton capacity for plant, here.

Crane—Latrobe, Pa.—Vulcan Mould & Iron Wks., in market for 20 ton overhead electric crane.

Sand Mixer — Pittsburgh, Pa. — United Eng. & Fdry. Co., Farmers Bank Bldg., taking bids one sand mixer. W. E. Sanborn, purch. agt.

Crushed Stone, Gravel, etc.—Baltimore, Md. — Mar. 4, by Bd. Awards, crushed stone, slag, cinders, gravel, sand, 100,000 red wire cut vitr. blocks 3½ in. wide, 100,000 red wire cut vitr. blocks 3 in. wide, and 30,000 buff repressed vitr. blocks, 3 in. wide, lumber, also bituminous flushing of roads and streets, 150,000. sq.yd. ½ gal. with cover, 15,000 sq.yd. ¼ gal. without cover, and 350,000 sq.yd. ½ gal. with cover. B. L. Crozier, City Hall, highways engr.

Stone, etc.—Towson, Md.—Mar. 3, by Comrs. Baltimore Co., Courthouse, furnishing 45,400 tons stone, 106,450 gal. patch material, 211,000 gal. tar or oil. S. A. Green, Courthouse, road engr.

Clam Shells—New Orleans, La.—Mar. 3, by Comn. Council, 15 barges of clam shells, f.o.b. bank of New Basin Canal either at west end or vicinity opposite municipal repair plant.

Lead Cable—Cleveland, O.—Feb. 27, by City, c/o W. H. Hoare, purch. agt., for five thousand 16 conductor and seven thousand five hundred 10 conductor cable.

Asphaltic Cement, etc.—Detroit, Mich.—Feb. 28, by Dept. Purchases & Supplies, City Hall, 20,000 tons refined asphaltic cement, 25,000 yd. washed bank sand, 20,000 yd. gravel and 2,000 yd. pebbles.

Crane—Portage, Wis.—Columbia Co., c/o J. T. Henton, highway comr., in market for 1 crane for 40 ft. span, lathe, and drill press for repairing road machinery.

Patrol Graders—Port Washington, Wis.—Mar. 5, by W. J. Ubbink, hydro comr. Ozaukee Co., 1 or more power patrol graders for road work.

Tarvia—Two Rivers, Wis.—Mar. 2, by Bd. Pub. Wks., H. C. Gowran, chn., 20,000 gal. tarvia B or equal, 16 bbl. tarvia A or equal, 8 bbl. tarvia K.P. or equal and 56 bbl. tarvia X or equal.

Road Oil, etc.—Wausau, Wis.—Mar. 2, by Bd. Pub. Wks., 50,000 gal. tar product road oil and 3 carloads calcium chloride.

Road Machines—Bismarck, N. D.—Mar. 5, by Comrs. Burleigh Co., 4 one-man operated, horse-drawn patrol road machines, of 1,200-1,500 lbs. F. A. Johnson, co. aud.

Graders, etc.—Bottineau, N. D.—Mar. 5, by W. M. Martin, aud. Bottineau Co., 3 patrol graders with 8 or 10 f.t blades, and 1 gravel loading outfit.

Tractor—Onida, S. D.—Mar. 4, by C. L. Clessner, aud. Sully Co., one tractor, caterpillar type, large or small.

Pig Lead, etc. — Dallas, Tex. — M. G. James, city secy., taking bids 40,000 lb. pig lead, 30,000 lb. ¾ in. and 6,000 lb. 1 in. lead pipe.

Rock—Long Beach, Calif.—City Council taking bids 1,500,000 tons rock for bulkheads. R. D. Van Alstine, city engr.

Steam Shovel — Medford, Ore. — R. I. Stuart taking bids ½-yd. capacity steam shovel, caterpillar traction.

BIDS RECEIVED

Cement — Baltimore, Md.—Bd. Awards, cement, from Hudson Cement & Supply Co., Westwood and Whitmore Aves., $2.72 per bbl.

CONTRACTS AWARDED

Broken Stone, etc. — Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., to Standard Oil Co., 26 Bway., New York City, 600,000 gal. road oil $36,480, 1,300 tons asphaltic cement $27,300, 350,000 gal. asphaltic macadam binder $25,480; to Warner Quinlan Co., 79 Wall St., New York City, 25,000 gal. asphalt for patching $4,388, 60,000 gal. fuel oil $3,930. Noted Feb. 19.

Sand Grit, etc.—New York, N. Y.—H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., to J. W. Farrel, Valentine Ave., 9,000 cu.yd. sand grit, $16,550; to Standard Oil Co., 26 Bway., 1,500 tons asphaltic cement $33,330, 750,000 gal. bituminous road surfacing material $50,250; to P. Solomon, 1358 Brook Ave., 5,000 bags Portland cement $3,425; to Grangers Mfg. Co., Westock, Mass., $4,865; to Barrett Co., 17 Battery Pl., 150,000 gal. tar for patching $23,850, 300,000 gal. bituminous road material $32,700, 75 tons pitch joint filler $2,063; to J. A. Maloney Co., 1170 Bway., long leaf yellow pine $9,680; to Gallagher Shand, 420 East 105th St., 1,000 cu.yd. concrete and paving sand $1,700; to Calvin Tompkins, 30 Church St., 7,500 cu.yd. binder stone $14,850; to Z. Mahoney, 557 46th St., Brooklyn, 10,000 cu.yd. asphalt sand, $12,800; to United Sand & Gravel Co., 325 West 216th St., 4,000 cu.yd. 1½ in. waterbound macadam stone, etc. $27,625. Noted Feb. 19.

Road Oil — Watertown, Wis. — F. S. Weber, city clk., 120,000 gal. road oil to Amer. Mexican Refining Co., 11 South La Salle St., Chicago, Ill., at $0.0628 per gal. Noted Feb. 5.

Portand Cement and Timber—Waukon, Ia.—C. A. Palmer, aud. Allamakee Co., 500 bbl. Portland cement delivered to New Albion, to C. Birch Lumber Co., Waukon; 500 bbl. Portland cement delivered to Waukon, to Eaton & Jones, Waukon; and 100,000 ft. bridge timber, to W. W. Saylor & Co., Waverly. Noted Jan. 20.

Rock Asphalt—San Antonio, Tex.—For 2,000 tons rock asphalt for repairs on highways within radius of 40 mi. of here, to Colgazier & Hoff, 022 Austin St., $10.30 per ton.

CONSTRUCTION NEWS

Engineering News-Record, March 5, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Roads and bridges, North Carolina, State Legislature authorized $20,000,000 bonds for roads and bridges during next 2 years.

Plant, Bagnell, Mo., Missouri Hydro-Electric Power Co., Kansas City, having plans prepared for hydro-electric plant, $10,600,000.

Waterworks, San Antonio, Tex., plans purchasing and improving waterworks, $6,500,000.

Power development, Three Rivers, Que., United Mfg. Co. plans water power development, $6,000,000.

Hotel, Boston, Mass., Statler Hotel Corp., New York City, plans 14 story building, $4,000,000.

Distribution Lines, Oregon, Pacific Telephone & Telegraph Co., Portland, plans to extend and improve lines, $3,000,000.

Bakery, Cambridge, Mass., National Biscuit Co. plans bakery, $3,000,000.

Hotel, Coney Island, N. Y., J. Palmieri plans building, $3,000,000.

Hotel, Detroit, Mich., P. Miller having plans prepared, $2,500,000.

Railroad improvement, Ohio, Hocking Valley R.R. Co. plans complete double tracking line between Columbus and Fostoria, $2,500,000.

Bids Wanted On Big Jobs

Mill, East Youngstown, O., Youngstown Sheet and Tube Co., soon takes bids, $2,000,000.

Church, Pittsburgh, Pa., Sacred Heart Roman Catholic Congregation, $1,900,000.

Garage, Boston, Mass., J. M. Howe, $1,500,000.

Office, Philadelphia, Pa., J. C. Kahn, $1,500,000.

High School, New Bedford, Mass., by City, $1,000,000.

Garage and office, Cleveland, O., Motors Realty Co., $1,000,000.

Hotel, New Orleans, La., Weiss & Dreyfous, Archts., $1,000,000.

Large Contracts Let During Week

Power Station, Sioux City, Iowa, Sioux City Gas & Electric Co. to U. G. I. Contg. Co., Philadelphia, Pa., $2,000,000.

Plant, Kansas City, Mo., Columbian Steel Tank Co. will build by day labor, $2,000,000.

Schools, Cleveland, O., Buildings for University School by Hunkin-Conkey Constr. Co., $1,000,000.

Power House, Lowell, Mass., Wamfsit Power Co. to Stone and Webster, $1,000,000.

Waterworks

PROPOSED WORK

Mass., Canton—City Water Comrs., plan new pumping station and new stand pipe on Hogh St., and elevation of Ponkapoag Standpipe. To exceed $15,000. Engineer not selected.

Mass., Reading — Bd. Selectmen plans mains in Libby Ave. and Forest St., $20,000 appropriated; also storm water main from east side of John St. to west side of Main St., $15,000 appropriated. Engineer not selected.

N. J., Trenton—Water Dept. plans water service station, Brunswick Ave. $60,000. A. Bugbee, City Hall, engr.

Fla., Palmetto—Voted $50,000 bonds, extending water mains.

La., Augurs—Making preliminary plans waterworks and distribution system. $37,000. C. D. Evans, Levy Bldg., Shreveport, engr.

Tenn., Nashville — Bd. Pub. Wks., G. Reyer, supt., City Hall, appropriated $24,600, relaying mains under streets to be permanently paved in 1925. H. E. Howse, mayor.

O., Cleveland—Takes bids in spring 800 ft. iron sheet piling to depth of 60 ft. in order to divert subterranean currents that have undermined Division Ave. Filtration Station. $300,000. L. A. Quayle, City Hall, engr.

O., Cleveland—City plans new filtration plant in Nottingham Dist., and 4½ mi. intake tunnel in Lake Erie. A. V. Hamlin, City Hall, engr.

O., Niles — Plans mains in 11 streets. $50,000-$75,000. B. Holloway, Niles, engr.

O., Sebring — Takes bids in spring, new standpipe and new and enlarged water mains. $100,000.

Wis., Kenosha — Plans extending c.i. mains in 5th, Hamilton and Howland Aves., Beverly, Kenwood, Plymouth and Belmont Places, Erie, Putman, Michigan and Howard Sts. To exceed $15,000. R. M. Smith, City Hall, engr.

Wis., Madison — City, c/o L. A. Smith, supt., making plans 6 m.g. reservoir and 20 in. mains to connect with distribution system. $100,000. E. E. Parker, City Hall, engr.

Wis., West Allis—Making plans extending c.i. mains in Beloit Rd., Jersey, Papham and Burnham Sts., Lincoln, National, 45th, 55th, 56th, 57th, 58th and 82nd Aves. To exceed $15,000. W. Darby, City Hall, engr.

Ia., Ames—Making plans approximately 3 mi. waterworks extensions in various streets. $35,000. P. F. Hopkins, Ames, engr.

Ia., State Center—Making plans waterworks, incl. reservoir, pumping station, filtration plant and elevated tank. $50,000. Brown & Cook, Ottumwa, engrs.

Minn., Brainerd—Plans to purchase 1,600 lin.ft. 6 in. c.i. and 2,600 lin.ft. 8 in. pipe, 1 ton specials, and 2 ton lead. $6,500. E. T. Fleenor, city clk.

Minn., Glencoe—Plans waterworks improvements. $15,000. J. F. Globe, city clk. Engineer not announced.

Kan., Kansas City—Plans 10 new filters, 1½ m.g. capacity each. $350,000. J. D. Donovan, City Hall, engr.

Mo., St. Louis — Soon takes bids several hundred tons 3- to 20-in. c.i. pipe, 3- to 12-in. valves and boxes, O'Brien type fire hydrants, special castings, 3- to 36-in. sizes, and some insert valves. $100,000. Work will be done by day labor. E. E. Wall, City Hall, comr.

Tex., Dallas — Plans election $250,000 bonds, sanitary sewer. Engineer not announced.

Tex., Dilley—Making plans distribution system, 50,000 gal. elevated tank, pumping equipment, etc. $30,000 bonds voted. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Jan. 15.

Tex., Donna—Voted $50,000 bonds waterworks improvements, incl. mains, pumping equipment, well, etc. W. Whigham, mayor. Noted Feb. 19.

Tex., Flatonia—Plans election soon $75,000 bonds improving water and sewerage systems. Municipal Eng. Co., 715 Praetorian Bldg., Dallas, engrs.

Tex., Giddings — Voted $46,000 bonds mains and additional pumping equipment, etc. J. D. Fields, mayor. Noted Feb. 26.

Tex., Greenville—Voted $400,000 bonds, waterworks improvements, incl. reservoir, intake, pipe line, filtration plant and extension to distributing system. H. Rush, Greenville, engr. Noted Jan. 29.

Tex., Killeen—Voted $16,000 bonds additional mains, pumping equipment, etc. H. N. Law, mayor. Noted Feb. 5.

Tex., Lufkin — Making plans and takes bids about Apr. 15, waterworks improvements, incl. mains and laterals, new tower and tank, and addition to earth dam and spillway, new disposal plant for entire system and extension sanitary sewerage system. $125,000. F. A. Jones, Lufkin, engr.

Tex., Putnam—Voted $36,000 bonds, for waterworks. Address R. Clinton, city comr.

Tex., San Antonio—Election $6,500,000 bonds for purchasing and improving waterworks postponed until municipal ownership bill (now before legislature) has been passed. I. Ewig, city engr. Noted Feb. 10.

Tex., Weslaco—Making plans waterworks improvement incl. mains, addition to pumping equipment. $20,000 bonds voted. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Jan. 15.

Okla., Blair—Election Mar. 17, $30,000 bonds, new waterworks, incl. drilled well, pump, elevated tank, mains, valves, hydrants and meters. J. G. Harrell, city clk. Engineer not announced.

Okla., Elk City — Making preliminary plans waterworks extensions, incl. new reservoir, pumping mains, valves, etc. $30,000. Engineer not selected.

Okla., Holdenville — Making preliminary plans new pumping station, reservoir, pumping equipment, mains, valves, etc. Election early in March $80,000 bonds for same. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Jan. 8.

Okla., Idabel — Election Mar. 17, $23,000 bonds for new motor driven pumps, oil engine, 250 water meters and transmission line. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Nov. 20.

Okla., Okemah — Plans waterworks extensions. $188,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr. Noted Sept. 18.

N. M., Artesia — Making surveys and plans improving water system. $50,000. Burns, McDonnell & Smith Eng. Co., 412 Marsh-Strong Bldg., Los Angeles, Calif. and 402 Interstate Bldg., Kansas City, Mo., engrs.

N. M., Roswell — Making plans improving water system. $100,000. Burns, McDonnell & Smith Eng. Co., 412 Marsh-Strong Bldg., Los Angeles, Calif. and 402 Interstate Bldg., Kansas City, Mo., engrs.

Idaho, Burley — Plans to issue $29,500 bonds to drill and case well for water supply, also purchase city cemetery.

Calif., Alhambra—City plans to purchase 100 fire hydrants. M. H. Irvine, city engr.

Calif., Mayfield—See "Sewers."

Calif., Santa Rosa—Bd. Pub. Utilities, G. R. Cadam, secy., plans to purchase 1 turbine pump with electric motor, direct connected, of 1200 r.p.m., 440 volt, 60 cycle. P. F. Green, city engr.

Que., Quebec—Plans 30 m.g. reservoir, $425,000; concrete dam on St. Charles River, $25,000; and two 5,000 g.p.m. pumps, $50,000. F. C. Laberge, 30 St. James St., Montreal, engr.

Que., St. Benoit — J. N. Cloutier plans reservoir and gravity piping system. $25,000.

Que., St. Cecile de Whitton — Plans gravity system. $25,000. J. G. Beaudoin, city secy. Engineer's name withheld.

Ont., North Bay — Voted about $38,500 bonds for waterworks.

Waterworks (Continued)

Ont., Waterford—Making plans and takes bids about Apr. 1, waterworks system. $50,000. C. C. Fairchild, 169 Colborne St., Brantford, engr.

Ont., Welland — Water Comn. making plans and takes bids about May 1, filtration plant. $250,000. W. E. Forster, city engr.

Ont., Woodstock — Water Comn. plans 18 in. wood or iron mains from Springs to power house. $40,000. J. G. Archibald, City Hall, engr.

BIDS DESIRED

N. Y., Brooklyn — Mar. 11, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Delamere Pl., Eastern Parkway, Narrows, Nostrand, 110th, O and P Aves., Bryant, Clinton, Kimball, Montgomery, 62nd, 71st, 78th, 80th, 90th, East 5th, 16th, 92nd, West 8th, 9th and 33rd Sts., here.

N. Y., Long Island City—Mar. 9, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in 69th and 171st Places, Carolin, Albion, Ingram, 111th, 171st and 208th Sts., 48th, 57th, Borden, Lenox, Willow and 32nd Aves., here.

N. Y., New York — Mar. 9, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Throggs Neck Blvd., Shore Dr., Barker, Barnes, Byron, Chaffee, Cranford, Ely, Meagher, Pitman, Tieman and Wickham Aves., East 212th, East 231st, 239th and 242nd Sts.

N. Y., Rome—See "Sewers."

N. J., Cape May — Mar. 12, by City Comrs., fuel oil pumping and air lift machinery for waterworks. H. W. Bell, city engr.; adv. En. N.-R. Mar. 5.

S. C., Spartanburg—Apr. 14, by Commissioners Pub. Wks., rein.-con. dam, power house, water purification plant, rein.-con. reservoir, etc. P. H. Norcross, 1404 Candler Bldg., Atlanta, Ga., consult. engr.; adv. E. N.-R. Mar. 5.

Fla., Tallahassee — Mar. 17, by City Manager, 1 single stage centrifugal pump, etc. B. H. Bridges, city aud. and clk.; adv. E. N.-R. Mar. 5.

Wis., La Crosse—Mar. 12, by Dept. Pub. Wks., c/o W. Fries, secy., 12,176 ft. 4- to 20-in. c.i. pipe, 20,724 lb. c.i. specials, etc., in 14 streets. C. C. Congdon, city engr.

Wis., Thorp—Mar. 19, by H. Holzhauser, city clk., c.i. extending mains in various streets. $16,000. Private plans. Noted Jan. 15.

Minn., St. Paul. — Mar. 10, by H. W. Austin, city purch. agt., 300,000 gal. steel reservoir on concrete foundation at McCarrons station, 75 coils of ¾ in. extra strong lead pipe, 800 lin.ft. 60 in. O. D. steel pipe, and 5 special bends. G. M. Shepard, city engr.

Tex., Rusk—F. A. Jones, city secy., taking bids earth dam, concrete spillway, filtration plant, wash tank, pumping plant and extending mains and laterals in various streets. $55,000. F. A. Jones, Rusk, engr. Noted Sept. 11.

BIDS RECEIVED

Kan., Kansas City—G. T. Derby, purch. agt., Feb. 10, two 4 m.g. pumps for booster service, from U. S. Wind Engine & Pump Co., 1100 Hickory St., Kansas City, Mo., $4,980. Noted Feb. 5.

Minn., St. Paul — H. W. Austin, city purch. agt., Feb. 5, concrete conduit, from D. W. Moore & Moline Bros., 894 Edmund St., intake and terminal chambers for Vadnais-Lake McCarron Station conduit, $768,173; from Waterous Fire Engine Wks., 80 Fillmore Ave., E., 200 single steamer 5 in. valve fire hydrants, $82.02 each, and 20 double steamer 6 in. valve fire hydrants $105.82 each. Noted Jan. 20.

CONTRACTS AWARDED

R. I., Providence — Water Supply Bd., about 1.6 mi. 66 in., and 0.3 mi. 48 in. steel pipe line, with connections and appurtenances, etc., to C. A. Haggerty, Webster, Mass., $306,425. Noted Feb. 19.

Pa., Phila. — Dept. Pub. Wks., Bureau Water, 2,080 tons 16- to 24-in. c.i. pipe, Contr. 737, to Mazzola & Marano, 709 South 7th St., $283,565; 50,000 lbs. piglead, Contr. 741, to N. Trotter & Co., 36 North Front St., $0.97 per lb., total $4,850.

O., Cincinnati — City, c.i. pipe, special castings and valves and other miscellaneous work in connection with water distribution system in various streets during 1925, to M. F. Quill & Son, 409 Gerke Bldg., $84,020. Engrs. est. $75,000. Noted Feb. 12.

Mich., Springwells—B. P. Esper, city clk., 3,000 ft. 30 in. c.i. mains in Dix Ave., to Coolsaet Bros., 12734 Michigan Ave., Detroit, $25,000. Noted Feb. 12.

Ill., Bartlett — Distribution system, incl. 13,931 ft. or 230 tons 6 and 8 in. mains, nineteen 6 and 8 in. gate valves and boxes, 23 fire hydrants, etc., to Logan Constr. Co., Elgin. Noted Jan. 29.

Wis., Kenosha—C. M. Osborn, city mgr., 496 tons Class B water pipe to Amer. Cast Iron Pipe Co., 38 South Dearborn St., Chicago, Ill., at $48.48 per ton; 76 hydrants, to Traverse City Iron Wks., Traverse City, Mich., $51.50 each; all brass goods for season to Glauber Brass Co., Cleveland, O. Noted Feb. 12.

Minn., Mankato—For 11,320 ft. 6 and 8 in. c.i. pipe and 7 tons specials castings, to U. S. Cast Iron Pipe and Fdry. Co., 625 Plymouth Bldg., Minneapolis. Noted Feb. 5.

Minn., Minneapolis — F. S. Gram, city purch. agt., 297 tons c.i. water pipe, part to Amer. Cast Iron Pipe Co., 712 Plymouth Bldg., and the rest to U. S. Cast Iron Pipe & Fdry. Co., 625 Plymouth Bldg.; 7,000 curb and corporation cocks, to Mueller Mfg. Co., 512 West Cerro Gordo St., Decatur, Ill. Noted Jan. 29.

Minn., Minneapolis — F. S. Gram, city purch. agt., one 10 ton electric crane to Rose Mchy. Co., 723 Metropolitan Life Bldg., Minneapolis, for Water Dept. $2,435. Noted Jan. 8.

Minn., St. Paul — H. W. Austin, city purch. agt., 481 pieces c.i. water pipe, 24- to 32-in. sizes, all 12 ft. lengths, to Lynchburg Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., $50 per ton; c.i. gate valves and service connection boxes, to Cochran Sargent Co., 5th and Sibley Sts., St. Paul, $2,000. Noted Feb. 5.

Minn., St. Paul — H. W. Austin, city purch. agt., 100 tons c.i. water pipe specials, also c.i. pipe, to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., $9,000 and $63,000 respectively; 310 gate valves, various sizes, to Crane Co. of Minnesota, 5th St. and Bway., $6,915; also c.i. pipe, to U. S. Cast Iron Pipe and Fdry. Co., Amer. Trust Bldg., Brimingham, Ala., $62,000.

Neb., Stanton—W. E. Cook, city clk., for excavation, pumps and fittings, to Interstate Mchy. & Supply Co., 1006 Douglas St., Omaha, $3,432; two 8 in. wells, 60 ft. deep, to F. W. Ludwig, Stanton, $938; and masonry, to E. Van Ness, Stanton, $581. Noted Feb. 12.

Mo., Appleton City—For two 8 in. wells, 400 ft. deep, two deep well pumps and one horizontal centrifugal pump, 100,000 gal. tank on tower, several miles 2, 4, 6 and 8 in. pipes, hydrants, etc., to W. F. Hall, Clinton, $47,500. Noted Nov. 13.

Mo., St. Louis—See "Proposed Work."

Tex., Houston—For two 1,000 gal. and two 2,000 gal. wells at Scott St. plant, to Layne Texas Co., 1111 6th St., $91,350; two 1,000 g.p.m. or 2,000 g.p.m. motor driven pumps, to Southern Engine & Pump Co., 615 Washington St. $56,550.

Tex., Paducah—City, c/o P. E. Godfrey, secy., to J. B. Winslett, Dallas, water extensions $15,000, flow line $95,000, sanitary sewers and disposal plant $44,500; to W. D. Edwards, Paducah, pump house and well $19,920; to Plains Paving Co., Wichita Falls, storm sewers $8,600, Willite paving $46,308. Noted Jan. 29.

Ont., St. Catharines — G. F. Peterson, chn. Wateworks Comn., filtration plant, to J. A. Wickett Ltd., 59 Yonge St., Toronto, $262,025; mechanical equipment, to F. Hankin & Co., Ltd., 20 St. Nichols St., Montreal, Que., $126,694. Noted Feb. 5.

Sewers

PROPOSED WORK

Pa., Millvale — Millvale Boro election Mar. 24, $74,000 bonds, main sanitary trunk line sewer in Freemont St. et al.

O., Canton — Stark Co. soon takes bids sanitary sewers in Sect. A, North Canton sanitary sewer between Canton and North Canton $149,652, Sect. B $110,497 and Sect. C $74,952. G. B. Davidson Court House, engr.

O., Niles — Bd. Control takes bids in spring trunk sewer in Sewer Dist. 7. $40,000 bonds to be sold. W. Milligan, Niles, engr.

Ill., Wheaton—Sanitary Dist. Bd., F. D. Ewell, pres., making preliminary plans 3 acres sand filter beds, 40,000 ft. 18- to 27-in. pipe for outfall sewers, disposal plant, settling tanks, dosing chambers, sand filters and sludge bed. $250,000-$300,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

Wis., West Allis — Making plans vitr. sewers in Beloit Rd., Jersey and Lapham Sts., Lincoln, National, 45th, 55th, 56th, 57th, 58th and 82nd Aves. W. Darby, City Hall, engr.

Ia., Iowa City — Plans sewage disposal plant. $1,000,000. N. Barber, 228½ West 4th St., Waterloo, engr. Noted Dec. 18.

N. D., Fargo—Plans ½ mi. trunk sewer with 48 in. main in North Fargo from Red River in 15th Ave. N. to 13th St., thence to 12th Ave., and in 12th Ave. to 15th St. $35,000. Former contract rescinded as village of North Fargo has since been annexed to city of Fargo, and city is expected to undertake it. R. T. Jacobson, city engr. Noted Jan. 10, 1924.

Mo., Shelbina—Making preliminary plans sewer improvements. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, engrs.

Tex., Abilene — Election in May about $35,000 bonds, extending sewerage system, additional mains, and probably disposal plant. M. L. Sellers, city secy.

Tex., East Dallas (Dallas P. O.)—City of Dallas plans election $250,000 bonds storm sewers particularly here. Engineer not announced.

Tex., Flatonia—See "Waterworks."

Tex., Giddings—Voted $46,000 bonds new sewerage system. J. D. Fields, mayor. Engineer not selected. Noted Dec. 11.

Tex., Killeen—Voted $36,000 bonds improvements to sewers, mains, disposal plant, etc. H. N. Law, mayor. Noted Feb. 5.

Tex., Lufkin—See "Waterworks."

Tex., Rockwell—Plans complete sewerage system. $35,000. H. B. Lofland, mayor. Engineer not announced.

Tex., Weslaco — Making plans sanitary sewer improvements, incl. mains, laterals, disposal plant, etc. $25,000. Terrell Bartlett, Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Jan. 22.

Tex., Yorktown—Making plans sewers, mains, etc., in various streets. $30,000. Address City Engineer.

Okla., Blackwell — Making plans 15,000 ft. 24 in. vitr. clay outfall sewers, disposal plant, Imhoff tanks, sprinkling filter, etc. $75,000. W. Ritzhaupt, Jr., Blackwell, engr.

Okla., Holdenville — Making preliminary surveys 5 mi. outfall sewers and 2 disposal plants. Election in March $100,000 bonds for same. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Oct. 9.

Okla., Progress — Election soon $30,000 bonds, sewers and sewage disposal plant. $30,000. Holway Eng. Co., 504 New Wright Bldg., Tulsa, engrs.

Okla., Sand Springs — Election Mar. 3. $180,000 bonds for 10,500 ft. 36- to 60-in. segmental block sewers in various streets. Holway Eng. Co., Wright Bdg., Tulsa, engrs.

Wash., Yakima—Making plans and takes bids about Apr. 17, vitr. clay sewers in Pioneer and Modern additions. $100,000. C. F. Wilson, Yakima, engr.

Calif., Arroyo Grande — Making plans 10,000 lin.ft. 14 in. outfall sewer; Imhoff tank for 4,000 people, collecting system of 20,000 ft. 6- 8 and 10 in. laterals. $30,000. Burch & Beck, Commercial Bank Bldg., San Luis Obispo, engrs. Noted July 24.

Calif., Eureka—City plans election $250,000 bonds to finance sewer extensions. H. H. Hannah, city engr.

Calif., Los Angeles—Los Angeles Co made plans 5,242 ft. 8 and 10 in. vitr sewers, 1,448 ft. 8 in. vitr. laterals, 6,920 ft. 6 in. vitr. house connections, etc., in Holmes Ave. between Florence and Slauson Aves. Impvt. Dist. 277. J. E. Rockhold, Los Angeles, co. surv.

Calif., Mayfield—Plans election $55,000 bonds extending sewerage and water systems.

Calif., Oakland—Made plans 7th St. outfall sewer, 1,735 lin.ft. 5 x 5 ft. concrete sewer on concrete girders, 3,232 ft. 5 x 5 ft., 775 lin.ft. 4.5 x 4.5 ft. concrete sewer on timber foundation, 750 lin.ft. 4 x 4 ft. rein.-con. sewer on timber foundation, 83 lin.ft. 24 and 30 in. concrete and 2,3[illegible] lin.ft. 8- to 21-in. vitr. pipe, 337 lin.ft. [illegible] in. pipe conduit, etc. $230,000. W. W. Harmon, city engr.

Calif., Richmond — Making estimates storm sewers in various streets. To exceed $350,000. E. A. Hoffman, city engr. Noted Dec. 18.

Calif., San Bernardino — Made plans storm sewers in Mt. Vernon Ave., 48 in. pipe from 3rd St. and Mt. Vernon Ave. to K and 2nd Sts., and 54 in. in line south on K St. between 2nd St. and Lytle Creek. $35,000-$40,000. C. E. Johnston, city engr.

Calif., Tulare—See "Streets and Roads."

Ont., London — Making plans sewer siphon $100,000 and disposal plant $60,000. W. P. Near, city engr.

BIDS DESIRED

N. Y., Brooklyn — Mar. 12, by J. A. Guider, boro pres., Boro Hall, storm and sanitary sewers in Argyle Rd., Georgia Ave., East 18th, East 40th, 73rd and East 46th Sts.

N. Y., Larchmont—Mar. 16, by Bd. Village Trustees, sewers in Dist. 5A. Contr. 100 and 101. E. D. Wakeman, clk.; adv. E. N.-R. Mar. 5.

Sewers (Continued)

N. Y., Rome—Apr. 2, by Supt. Purchase, Capitol, Albany, sanitary sewer, water piping, and sanitary work, etc. at Rome State School for Mental Defectives, here. S. W. Jones, state archt.; adv. E. N.-R. Mar. 5.

O., Akron — Mar. 16, by W. F. Peters, dir. Pub. Serv., 200 ft. 36 in. brick, 1,340 ft. 42 in. vitr., 830 ft. 48 in. segmental block, 810 ft. 54 in. tile, 1,550 ft. 12- to 24-vitr. trunk sewer in Case and Johnston Sts., $99,950; also Willow Run Trunk Sewer, 5,200 ft. 24- to 90-in. brick pipe, $320,000. J. E. Root, Delaware Bldg., consult. engr.

Mich., Grand Rapids—Mar. 18, by Director Pub. Serv., City Hall, portions of separate trunk sewer in Michigan St. and Fuller Ave., contr. F.-5. F. H. Locke, city mgr.; adv. E. N.-R. Mar. 5.

Wis., Milwaukee — Mar. 10, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., 10,950 lin.ft. 30 in. concrete sewer, etc., in Lincoln Ave., Sect. 1. To exceed $25,000. T. C. Hatten, c/o owner, engr.

Wis., Prairie du Chien—Mar. 12, by W. Beuthin, city clk., 14,898 ft. 8, 12 and 15 in. vitr. sewers in various streets, etc. To exceed $25,000. A. Martin, City Hall, engr.

Tex., San Benito—Taking bids 16,830 ft. 6 in. sanitary sewer, etc., in various streets. $25,000. Agar & Gentry, San Benito, engrs.

Calif., Blythe—Mar. 16, by City Trustees, sewage treating plant and outfall sewer improvements, 5,125 lin.ft. 8 in. B & S Class A c.i. pipe, 150 cu.yd. concrete, 16,230 lbs. reinforcing, etc.; also sewerage system and pumping station, etc., 7,767 lin.ft. 6- to 12-in. vitr. pipe with wyes, 17 manholes, etc. Burns-McDonnell-Smith Eng. Co., Marsh-Strong Bldg., Los Angeles, engrs. Noted Aug. 21.

Calif., Corona—Mar. 10, by City Clerk, 42,500 ft. 8- to 18-in. sewers, etc., in various streets. Currie Eng. Co., Alhambra, engrs. Noted Nov. 13.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., Feb. 25, sewers in 150th Ave., from Hammen Constr. Co., 279 Madison Ave., Perth Amboy, N. J., (A) $291,935; from Paino Bros., 32 Court St., Brooklyn, (B) $749,-240. Noted Feb. 19.

N. J., Trenton Junction — Freeholders Mercer Co. (Trenton), storm water drains in Zenker Rd., here, from Celantano & Wendland, 509 Bridge St., Trenton, $35,829.

Md., Baltimore — Bd. Awards, 12,000 ft. lateral sanitary sewers, in Dist. 47 E, Contr. 217, from N. Martell, 417 South Eden St., $36,181. Noted Feb. 19.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sanitary sewers in 150th Ave., to Hammen Constr. Co., 279 Madison Ave., Perth Amboy, N. J., $407,045; Sutter Ave., to J. H. Johnson, $138,480. Noted Feb. 19.

N. Y., New York—J. Miller, pres. Manhattan Boro., Municipal Bldg., sewers in Laurel Hill Terrace, to T. A. Reilly, 48 East 41st St., $44,990. Noted Feb. 19.

Mich., Grand Rapids — Director Pub. Serv., City Hall, Logan St. Relief Sewer Project, Contr. J-2, to J. Brogan & Sons, Green Bay, Wis., $352,215. Engrs. est. $375,529. Noted Jan. 22.

Mo., Kansas City—For 8- to 25-in. sanitary sewers in Dists. 264, 295, 303, 337, 338, 339, 345, 346, 347, 348, 350 and 416 in Sewer Div. 4, to W. C. Mullins Constr. Co., 202 Nelson Bldg., $34,063.

Tex., Paducah—See "Waterworks."

Tex., San Antonio—Sanitary sewers in 10 blocks North Trinity St., to Elder & Walker, Houston Bldg., $28,000.

Calif., Los Angeles—For vitr. sewers in Georgia Ave. between 26th St. and 21st Pl., and other streets, to C. Fisher, 1682 4th St., Santa Monica, approximately $31,000.

Ont., Brantford — Will lay storm sewer in Gladstone, Erie and Allenby Aves., by day labor. $35,000. F. P. Adams, city engr.

Ont., Niagara Falls—Stamford Twp., will lay 10 and 12 in. sewers in various streets, by day labor. $30,000. W. J. Seymour, City Hall, engr.

Waste Disposal

PROPOSED WORK

Tex., Houston—Election Apr. 13, $75,000 bonds, 3 garbage incinerator plants. J. C. McVey, city engr.

Bridges

PROPOSED WORK

Pa., Millvale—See "Streets and Roads."

North Carolina—See "Streets and Roads."

North Carolina — State Legislature authorized $600,000 bond issue for toll bridge over Chowan River, near Edenton, in Bertie and Chowan Counties, or State Hy. Dept., Raleigh. C. M. Upham, Raleigh, highway engr.

North Carolina—State Hy. Dept., Raleigh, plans rein.-con. bridge over Catawba River on Route 10, State Project 625, Catawba and Iredell Counties. $100,000. C. M. Upham, Raleigh, engr.

N. C., Murphy—Cherokee Co. plans rein.-con. bridges and culverts on project between here and Tennessee State line. $43,200. Address J. G. Stikeleather, Ashville.

O., Dayton — G. Baker, dir. Pub. Serv., takes bids probably end of March 400 ft. concrete arch, bridge, 30 ft. driveway and 6 ft. sidewalks on each side across Mad River at Findlay St. $250,000. Braun & Watson, 1183 South High St., Columbus, engr.

Wis., Manitowoc—A. H. Zander, city clk., receiving proposals from engineers until Mar. 16 (extended date), for plans and estimates for steel bridge over Manitowoc River, at 8th St. Noted Feb. 26.

Wis., Racine—Making plans 180 ft. to 190 ft., steel and concrete bridge 36 ft., at 6th St. $55,000. Wisconsin Bridge & Iron Co., North Milwaukee, engrs.

Missouri—State Hy. Dept., Jefferson City, plans three 20 ft. rein.-con. slab spans, etc., over Puzzle Creek, one 120 ft. steel truss span and three 40 ft. I-beam spans, etc., over Chariton River, one 120 ft. steel truss and three 40 ft. I-beam spans, etc., over Chariton River D. D., ten 20 ft. rein.-con. slab spans, etc., over overflow of Chariton River, all Chariton Co.; one 90 ft. steel truss span, etc., over Little Sniabar Creek, two 12 ft., one 45 ft. and one 40 ft. rein.-con. deck girder spans, etc., over stream, all Lafayette Co.; two 20 ft. rein.-con. slab spans, etc., over Tunos Branch, two 20 ft. rein.-con. slab spans, etc., over Coatney Branch, five 40 ft. rein.-con. deck girder spans, etc., over Little Niaugua River, all Dallas Co.; one 130 ft. steel truss and two 40 ft. rein.-con. deck girder spans, etc., over Blue River, one 40 ft. and one 45 ft. rein.-con. deck girder, and two 12 ft. rein.-con. slab spans, etc., over Heart Grove Creek, two 12 ft. rein.-con. slab spans, etc., over branch Heart Grove Creek, two 12 ft. rein.-con. deck girder spans, etc., over Mouse Creek, all Jackson Co.; four 40 ft. rein.-con. deck girder spans, etc., over Second Creek, and three 30 ft. rein.-con. deck girder spans, etc., over Schulte Creek, both Gasconade Co.; one 45 ft. rein.-con. deck girder and two 24 ft. rein.-con. slab spans, etc., over Grindstone Creek, De Kalb Co.; three 16 ft. rein.-con. slab spans, etc., over Hothe Creek, Perry Co.; three 30 ft. rein.-con. deck girder spans, etc., over Jamup Creek, Shannon Co.; one 40 ft. and two 25 ft. rein.-con. deck girder spans, etc., over Turkey Creek, Madison Co. P. H. Piepmeier, Jefferson City, engr.

Tex., Anson—See "Streets and Roads."

Tex., Houston—Election Apr. 13, $1,00,-000 bonds, for 3 bridges over Buffalo Bayou, one at McKee St., one Turning Basin and other on some intermediate street. O. F. Holcombe, mayor.

Calif., Santa Rosa—Sonoma Co. plans repairing bridge. $50,000. E. A. Peugh, Santa Rosa, co. surv.

BIDS DESIRED

Massachusetts—Mar. 12, by Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, 2 span rein.-con. bridge and approaches over Charles River at Cambridge St., Boston, and River St., Cambridge. J. R. Rablin, ch. engr.

Md., Baltimore—Mar 18, by Bd. Awards, at office City Register, City Hall, constructing Rogers Ave. Bridge at Western Maryland Rd. S. Purcell, ch. engr.; adv. E. N.-R. Mar. 5.

West Virginia—Mar. 25, by State Road Comn., Charleston, bridges on Project 3231, Kanawha Co.; Projects 128 and 129, Fayette Co.; Project 3063, Wyoming Co.; Projects 3200 and 3282, Logan Co.; Project 3169, Lincoln Co.; Project 3190, Wayne Co.; Projects 3075-D and 3164, Jackson Co.; Project 2053, Hancock Co.; Projects 3157 and 3017, Braxton Co.; Project 3111-B, Gilmer Co.; Project 3221, Berkeley Co.; and Project 3143-A, Tucker Co. E. B. Carskadon, secy.; adv. E. N.-R. Mar. 5.

W. Va., Huntington—Apr. 1, at office of Huntington & Ohio Bridge Co., 1026 4th Ave., 2,645 ft. steel bridge across Ohio River. J. E. Greiner & Co., Lexington Bldg., Baltimore, Md., consult. engrs.; adv. E. N.-R. Mar. 5.

Fla., Tampa — Mar. 10, by City Comn., City Hall, strauss trunnion bascule bridges, 1 on Platt St., and other on Cass St. $350,-000 each. R. D. Martin, City Hall, engr. Former bids rejected. Noted Jan. 8.

Alabama—See "Streets and Roads."

Ark., Russellville — See "Streets and Roads."

Tex., Henrietta — See "Streets and Roads."

Tex., Houston—Mar. 15, by J. C. McVea, city secy., Bascule lift span of 100 ft. opening with 250 ft. creosoted timber approaches, 20 ft. driveway, 6 ft. sidewalk over Buffalo Bayou at 71st St. $50,000.

Tex., Sweetwater — See "Streets and roads."

Idaho—Mar. 14, by State Hy. Engineer, Boise, at room 202 Pioneer Bldg., Lewiston, for 570 ft. concrete bridge, 20 ft., at Spaulding, 1,284 cu.yd. concrete, 207,100 lb. metal reinforcements; also 368 ft. concrete and steel bridge, 20 ft., at Lapwai, 65,760 lb. structural steel, 953 cu.yd. concrete, 139,600 lb. metal reinforcement, both over Clearwater River, in NezPerce Co., for State Highway Dept.

BIDS RECEIVED

Colorado—State Hy. Dept., Dover, 325 ft. steel bridge over Apishapa River, and 30 ft. bridge over nearby canal on Federal Aid Project 272-A, Otero Co., from L. F. Williams, 347 Thatcher Bldg., Pueblo, $56,-435. Noted Feb. 12.

CONTRACTS AWARDED

North Carolina — State Hy. Comn., Raleigh, rein.-con. bridges and culverts on State Project 284, Wayne Co., to Gooch & Loving, Richmond, Va., $35,835; also on State Project 642, Iredell Co., to J. S. Bowers Whiteville, $55,469. Noted Feb. 12.

South Carolina — Beaufort — St. Helena Twp. Hy. Comn., Court House, Beaufort, 3,671 ft. rein.-con., steel and creosoted timber bridge connecting Beaufort with Ladies Island, State Project S-525, Beaufort Co., steel superstructure Contr. 1, to Phoenix Constr. Co., 41 Park Row, New York City $217,197; concrete substructure, timber trestles and embankments Contr. 2, to Amer. Bridge Co., Continental Trust Bldg., Baltimore, Md., $77,839. Noted Jan. 8.

Louisiana—See "Streets and Roads."

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 50 ft. concrete girder bridge and one 180 ft. steel substructure, incl. two 50 ft. concrete girder approach spans, on Route 36, Sect. 8-B, Adams Co., to A. Olson Constr. Co., Waterloo, Ia., $28,309; and one 180 ft. steel superstructure on Route 36, Sect. 8-C, Adams Co., to Vincennes Bridge Co., Vincennes, Ind., $14,975. Noted Dec. 11.

Tex., Baird—See "Streets and Roads."

Tex., Floresville — See "Streets and Roads."

Tex., Sonora—See "Streets and Roads."

Colo., La Junita — See "Excavation, Drainage, Irrigation, Levees."

Dams

PROPOSED WORK

Tex., Rusk—See "Waterworks."

Calif., Santa Barbara—See "Excavation, Drainage, Irrigation, Levees."

Que., Quebec—See "Waterworks."

CONTRACTS AWARDED

N. C., Chimney Rock — Chimney Rock Mountains, Inc., dam and power plant on Rocky Broad River, etc., to J. A. Gardner, 211½ North Tyron St., Charlotte, about $675,000. Noted Feb. 5.

Railways

PROPOSED WORK

Pennsylvania—See "Buildings-Industrial" under Lewisburg.

North Carolina—See "Buildings—Industrial under New Bern."

Ohio — Hocking Valley R.R. Co. (subsidiary of Chesapeake & Ohio R.R.), Spahr Bldg., Columbus, plans complete double

Railways (Continued)

tracking line between Columbus and Fostoria. $2,500,000. W. Michel, ch. engr.

Texas—San Benito & Rio Grande Valley Ry., San Benito, making plans and soon takes bids grading, bridging and track laying, 15 mi. road bed connecting old end of track at Sammons with west end on W. H. Nichols & Co's. contract near Hidalgo. $90,000 or more. Private plans.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Mass., Boston — Commonwealth of Massachusetts, Dept. Pub. Wks., State House, plans dredging Shirley Gut. $25,000. W. F. Williams, comr.

Mass., Scituate—Dept. Pub. Wks., State House, Boston, plans dredging, jetty extension and repairs in Scituate Harbor, here. $25,000. W. F. Williams, comr.

Minn., Minneapolis—Bd. Park Comrs., C. Doell, secy. City Hall plans dredging Powderhorn Lake. $135,000. Eng. Dept. of owner, engrs.

Tex., Denison—Making preliminary plans sedimentation basin at Randell Lake, 5½ mi. from here. $25,000. C. E. Hayden, Denison, engr.

Calif., Richmond—San Francisco Bridge Co., Nevada Bank Bldg., San Francisco, plans removing and depositing 700,000 cu. yd. material behind levees on adjacent shore in inner harbor, Contra Costa Co., here.

Calif., Santa Barbara—Property Owners, H. H. Henderson, Mihran Bldg., interested, plans irrigation work, incl. several reservoirs from 14,000 to 45,000 acre ft. capacity, earth and concrete core dams, power plants, etc. Approximately $2,000,000.

Que., Valleyfield — Dept. Pub. Wks., Parliament Bldg., Ottawa, Ont., soon takes bids dredging, here. $32,000.

BIDS DESIRED

Fla., Clewiston—Apr. 1, by F. D. Duff, secy., Sugarland D. D., about 138 mi. drainage ditches, embracing about 3, 180,000 cu.yd. excav. and about 27 mi. of levees, totaling 700,000 cu.yd. embankment. Elliott & Harman, Eng. Co., Bank of Commercial & Trust Bldg., Memphis, Tenn., engrs.

La., Port Allen—Mar. 10, by Bd. Comrs. Choctaw Basin D. D., W. L. Bernard, secy., drainage canals and clearing right of way in gravity subdrainage Dist. 1, West Baton Rouge Co., 800,000 cu.yd. excav., 164 acres clearing.

Minn., Minneapolis—Mar. 17, by A. P. Erickson, aud. Hennepin Co., constructing Co. Ditch 38, 37,030 lin.ft. 4- to 8-in. tile. $15,000. S. A. Norling, Excelsior, engr.

Neb., Wakefield—Mar. 20, by Bd. Directors North Logan D. D., 204,000 cu.yd. excav. in Sect. 1, 155,000 cu.yd. excav. in Sect. 2, 3,147,000 cu.yd. excav. in Sect. 3, incl. three 65 ft., two 50 ft. and two 55 ft. span thru girder bridge on steel piling, 16 ft. roadway, and two 3-panel 55 ft. and two 3-panel 50 ft. span standard truss pin connected bridge, 14 ft. roadway; also by Directors South Logan D. D., 150,000 cu. yd. excav. in Sect. 1, 120,000 cu.yd. excav. in Sect. 2, one 55 ft. and one 60 ft. span thru girder bridge, and two 3-panel 55 ft. span standard truss bridge, 14 ft. roadway, both on steel pile foundations. Rettinghouse & Co., 923 South Dakota Ave., Sioux Falls, S. D., engrs. Noted Jan. 8.

CONTRACTS AWARDED

La., Baton Rouge—State, 103,000 cu.yd. levee work, at Monchac Point, West Baton Rouge Parish, here, to O. O. Ogden, Roumain Bldg., $0.1523 per cu.yd.

Colo., Grand Junction—For 400,000 yd. drainage ditch, to Winterburn & Lunndau, Grand Junction, $0.12 per cu.yd.

Colo., La Junita—Holbrook D. D., 750,000 cu.yd. earth excav., 45 small bridges, etc., to Barnard-Curtiss Co., 612 Globe Bldg., Minneapolis, Minn., $84,995. Noted Dec. 18.

Calif., Los Angeles—Harbor Comn., for harbor maintenance dredging, to Merritt-Chapman & Scott Corp., 1st Natl. Bank Bldg., Wilmington, approximately $91,000.

Streets and Roads

PROPOSED WORK

Mass., Boston—Plans widening and constructing Walk Hill St. from Fottler Rd. to Wellington Hill. $25,000. J. F. Sullivan, secy. Street Laying Out Dept.

Mass., Cambridge (Boston P. O.)—Plans extending Granite St. from Magazine to Pleasant Sts., and widening Sidney, Henry and Brookline Sts. To exceed $25,000. Engineer not selected.

Mass., Fitchburg — Commissioner Pub. Wks., City Hall, plans reconstructing Broad St. $25,000. D. A. Hartwell, City Hall, engr.

Mass., Holbrook — Bd. Selectmen plans constructing and repairing Weymouth, Center, Howard, South, Spring, Pine, Sycamore, Laurel and Winter Sts., Sprague and Howard Aves. $25,000. Engineer not selected.

R. I., Providence—Plans asphalt paving about 2.5 mi. Weybosset, Dorrance and Westminister Sts. $110,000. W. H. Brandon, city engr.

N. J., Pennington—Bd. Freeholders Mercer Co. (Trenton), making plans paving 5,530 ft. Main St., here. $110,000. H. F. Harris, Court House, Trenton, engr.

N. J., Pennington—Hopewell Twp. Com. plans penetration macadam paving 2 mi. Pennington-Rosedale Rd. $60,000. Engineer not selected.

Pa., Millvale—Millvale Boro election Mar. 24, $35,000 bonds repairing Lincoln Ave., and $6,000 bonds for widening bridge.

North Carolina—State Hy. Dept. Raleigh (**S. P. means State Project and R. means Route**), plans grading, etc., 6.4 mi. S. P. 594, R. 77, Rockingham Co., $45,000; 10.5 mi. S. P. 300, R. 20, Columbus Co., $73,000; 14 mi. S. P. 547, R. 70, Hoke Co., $100,000; 11.2 mi. S. P. 527, R. 27, Davidson Co., $78,000; 10 mi. S. P. 521, R. 75, Davidson Co., $70,000; 9.5 mi. S. P. 347, R. 22, Cumberland Co., $66,000; 9.5 mi. S. P. 347, R. 22, Cumberland Co., $65,000; 8 mi. S. P. 112, 341, Camden Co., $56,000; 10.3 mi. S. P. 903, R. 10, Swain Co., $72,000; 9.1 mi. S. P. 844, R. 10, McDowell Co., $63,000; 10 mi. S. P. 883, R. 20, Rutherford Co., $70,000; 10 mi. S. P. 584, R. 75, Randolph Co., $70,000. C. M. Upham, Raleigh, engr.

North Carolina — State Hy. Comn., Raleigh, plans grading, etc. 12 mi. State Prospect 298, Wilson Co. $85,000. C. M. Upham, Raleigh, engr.

North Carolina—State Legislature authorized $20,000,000 bonds constructing roads and bridges during next 2 years. C. M. Upham, Raleigh, engr.

N. C., Murphy—Cherokee Co. plans grading 2.2 mi. road between here and Tennessee State line, Hot House Route. $138,000. Address J. G. Stikeleather, Asheville.

Fla., Avon Park — Plans election about Mar. 26, $500,000 bonds paving 10 mi. various streets, also recreation and athletic fields, golf courses, etc.

Fla., Bartow—City Council plans probably asphalt paving portions of Stuart, Floral, Swearingen, Vine and Wilson Sts. $71,645. R. B. Huffaker, mayor.

Fla., Frostproof — City Council plans grading and paving portions of Lake Clinch Blvd., $27,828; portions of Lime St. and Reedy Lake Blvd., $31,941; portions of Scenic Highway, $68,717; Reedy Lake Blvd. from Wall to F Sts., $30,170. B. F. Barber, clk.

Fla., Kissimmee — Plans paving 37 various streets. $100,000. E. B. Doughton, city mgr.

La., Baton Rouge — Voted $200,000 bonds, paving roads in new City Park, etc. Noted Jan. 22.

Mississippi — State Hy. Comn., Jackson, allotted $1,700,000 in federal aid funds for Fayette Co. $200,000, Hinds Co. $200,000, Warren Co. $150,000, Lauderdale Co. $175,000, Forest Co. $100,000, Attalla Co. $100,000, Lowndes Co. $80,000, etc. H. C. Dietzer, highway engr.

Miss., Aberdeen—Takes bids about Mar. 25, grading, concrete surfacing, etc. 40,000 sq.yd. various streets. A. L. Dabney, 820 Columbian Tower, Memphis, Tenn., engr. Noted Feb. 5.

O., Akron—W. F. Peters, dir. Pub. Serv. takes bids in spring grading, curbing, laying sidewalks and paving 5,600 ft. Stanton Ave. et al, 16,200 sq.yd. vitr. brick and 160 cu.yd. concrete, $142,000, 4,850 ft. Eaglewood Ave. et al, 160,000 sq.yd. vitr. brick and 140 cu.yd. concrete, $106,000; vitr. brick paving, etc. 1,500 sq.yd. Robinette and Luedella Courts, $11,500; grading, cindering and laying 3,000 sq.ft. 4 in. concrete sidewalks on Harold St., $1,700, 5,400 sq.ft. 4 in. concrete sidewalks on Van Everett Ave., $4,500, 12,200 lin.ft. 4 in. concrete sidewalks on Sherman and Baird Sts., $7,500. E. A. Kemmler, Delaware Bldg., engr.

O., Dayton—Plans vitr. brick or granite block repaving, etc., 3,500 sq.yd. East 5th St., $51,668; sheet asphalt resurfacing 5,300 sq.yd. Stratford Ave., $4,425. J. F. Hale, Dayton, city engr.

Ind., Crown Point—Lake Co. plans grading and graveling 12.5 mi. Dedelow Rd., $130,700; 13.2 mi. Aubry Rd., $143,000; and 12.2 mi. Chapman Rd., $131,000; all 24 ft. wide. C. K. Wallace, Crown Point, engr.

Ind., Elkhart—Plans sheet asphalt paving 14,884 sq.yd. Vine St., $38,700; and 10,692 sq.yd. Bower Rd., $27,800. Address H. J. Weaver, city engr.

Mich., Detroit—Plans sheet asphalt paving 9,390 sq.yd. Manor Ave. $46,950, 2,710 sq.yd. Monte Vista Ave., Sect. 2 $13,580, 3,570 sq.yd. Carmel Ave. $17,850, 3,400 sq. yd. Cherrylawn Ave. $17,010, 4,880 sq.yd. Longwood Ave. $24,430, 5,240 sq.yd. Racine Ave. $26,200, 2,770 sq.yd. Sheehan Ave. $13,870, 2,050 sq.yd. Norwalk Ave. $10,270, 2,080 sq.yd. Abrey Ave. $10,400, 1,350 sq. yd. Saginaw Ave. $6,750, 2,930 sq.yd. Comstock Ave. $14,690, 2,490 sq.yd. Tappan Ave. $12,480, 2,600 sq.yd. Farnsworth Ave. $13,050, 5,150 sq.yd. Pinehurst Ave. $25,750, 2,480 sq.yd. Olympia Ave. $12,400, 8,770 sq.yd. Lanta Ave. $43,850, 8,750 sq.yd. Riopelle St. $43,780, 6,120 sq.yd. Casmer Ave. $30,620, 3,130 sq.yd. Edgewood Ave. $15,650, 9,020 sq.yd. Longview Ave. $45,120, 12,940 sq.yd. State Fair Ave. $63,720, also 29,310 sq.yd. 19 alleys $73,391. G. Jerome, city engr.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Dec. 17, grading Route 33, Sect. 3-A, Jasper and Crawford Counties. F. T. Sheets, ch. engr.

Wis., Madison — City, c/o H. C. Buser, clk., plans curbing, guttering and rein.-con. paving University, Spaight, Jenifer, Park, St. Paul, East Main, Prospect, Priney, Chadbourne, Mason, Stevens, Allen, Buttingham Fox, Charter and 2nd Sts. $500,000. Engineer not selected.

Ia., Cedar Rapids — Making plans concrete curbing, concrete, brick or segment block surfacing 12,610 sq.yd. various streets $35,000. T. F. McCauley, city engr. Noted Feb. 19.

Ia., Eldon—Making plans surfacing with various types 40,000 sq.yd. various streets, incl. 36,000 ft. curbing. $120,000. Brown & Cook, Ottumwa, engrs. Noted Nov. 20.

Ia., Keokuk — Plans 7 in. concrete surfacing 20,000 sq.yd. and brick on 6 in. concrete or resurfacing old brick with bitulithic or sheet asphalt 30,000 sq.yd. various streets. $120,000. F. W. Maxwell, city engr.

Ia., Ottumwa—Plans brick and concrete surfacing 10,700 sq.yd. various streets. $35,000. K. B. McBride, city clk.

Minn., Minneapolis—Plans paving 3.5 mi. Lake Calhoun Blvd. $285,000. Eng. Dept. of Bd. of Park Comrs., C. Doell, secy., City Hall, engrs.

Minn., Worthington—Nobles Co. making plans gravel surfacing about 35 mi. various streets. $50,000. C. J. Kall, co. aud.

Kan., Wichita—Plans asphaltic concrete surfacing 6 blocks River Blvd. from Central Ave. bridge over Little River to Sim Park Dr., 36 ft., and 6 in. concrete surfacing 1 block Orme St., 40 ft. P. L. Brockaway, City Bldg., engr.

Neb., Plattsmouth—Plans grading, curbing and hard surfacing 33 blocks Elm, Locust, Marble, Oak, Pearl, Rock, 3rd, 6th, 8th, 10th and 11ts Sts.

Mo., Neosho—Making preliminary plans grading, curbing and 7 in. concrete paving 12 blocks Jefferson St., etc. A. E. Thain, city engr.

Ark., Batesville — Takes bids in spring grading and hard-surfacing 75,000 sq.yd. various streets. $250,000. W. R. Heagler & Sons, Paragould, engrs.

Ark., North Little Rock — Making preliminary plans grading, hard-surfacing, etc. 19 blocks various streets. $70,000. G. D. Douglas, Southern Trust Bldg., Little Rock, engr.

Ark., Texarkana—Soon takes bids grading, curbing and hard-surfacing with concrete or asphaltic concrete 15 blocks County Ave. from 9th to 24th Sts. $40,000.

Tex., Anson — Jones Co. making plans grading, bituminous macadam surfacing and bridging 30 mi. State Highway 1, 18 ft. $600,000. F. E. Devlin, 614 Bitting Bldg., Wichita, Kan., engr.

Tex., Barstow — Ward Co. making plans macadam paving 11.13 mi. State Highway 1, 16 ft. $190,000. S. S. Posey, Barstow, engr.

Tex., Dallas — Plans paving 1.5 mi. Granada and Crescent Parkway to St. Andrews Dr., 16 or 18 ft. $30,000. Engineer not announced.

Streets and Roads (Continued)

Tex., Hallettsville—Lavaca Co. election soon $60,000 bonds, surfacing 8 mi. Rd. Dist. 2. Address County commissioners.

Tex., Palestine—Anderson Co. takes bids after Mar. 2, concrete surfacing 10.75 mi. State Highway 19, Federal Aid Project 543-C, 18 ft. $428,000. E. W. Davis, Palestine, engr.

Tex., Sinton — San Patricio Co. takes bids after Mar. 2, shell surfacing 6.38 mi. State Highway 67, Federal Aid Project 377-B, 16 ft. $75,136. F. M. Percival, Rockport, engr. Noted Jan. 15.

Tex., Waco—McLennan Co. election Mar. 28, $50,000 bonds grading, etc., 11 mi. Axtell Rd. Dist., from Tahuacana Creek to Hill Co. line, 26 ft. $50,000. M. Hannah, Waco, co. engr.

Tex., Whitesboro — Plans election soon $50,000 bonds permanent paving various streets. Address Mayor.

Okla., Oklahoma City — Plans grading and sheet asphalt surfacing etc. 5,600 sq.yd. Hickory St. and Randolph Ave. $30,000. B. M. Hart, City Hall, engr.

Okla., Pauls Valley—Rejected bids grading and 7 in. Troy gravel surfacing 14,500 sq.yd. various streets. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 19.

Calif., Pasadena—Voted $850,000 bonds curbing, guttering, sidewalks and 6 in. oil macadam paving, etc., Linda Vista Ave. to point 70 ft. between Linda Vista Bridge and Inverness Dr. Noted Jan. 22.

Calif., San Anselmo — Made plans improving Scenic, Elm and Plumas Aves., 1,800 cu.yd. grade, excav., 75,900 sq.ft. grade, surface, 66,800 sq.ft. asphaltic concrete and 9,100 sq.ft. concrete paving, 7,400 lin.ft. concrete curbing, 13,200 sq.ft. concrete gutter and valley, etc.; also portion of Redwood Rd., 800 cu.yd. grade, excav., 19,300 sq.ft. grade, surface, 2,400 lin.ft. concrete curb and gutter, 19,300 sq.ft. asphaltic concrete paving, etc. J. J. Jessup, city engr. Noted Dec. 18.

Calif., San Diego — Supervs. San Diego Co. making plans paving Hawley Blvd., 36th, 38th, 40th, 41st and 42nd Sts., 901,650 sq.ft. 1.5 in. sheet asphalt on 4 in. concrete; also 32nd and 33rd Sts., 104,728 sq.ft. 2 in. on 3 in. Willite, all in Normal Heights. P. R. Watson, 522 Spreckles Bldg., engr.

Calif., Tulare—Plans improving various streets, 241,800 sq.ft. 4 in. asphaltic concrete, 25,560 sq.ft. 5 in. concrete paving, 24,275 sq.ft. 4 in. concrete sidewalks, 9,050 lin.ft. concrete curb, 3,488 lin.ft. 8 and 10 in. vitr. storm sewers, 790 lin.ft. 8 in. corrugated iron pipe drain, etc. $68,400. J. P. Williams, city engr.

Ont., Perth — Lanark Co. takes bids in early spring, waterbound and bituminous macadam paving various roads. $140,000. S. B. Code, Smith Falls, engr.

BIDS DESIRED

New Hampshire — Mar. 9, by W. A. Stone, State Purch. Agt., State House, Concord, 138,000 gal. 45%, 679,934 gal. 65%, 9,034 gal. 90%, 340 tons 60-70 penetration, 195,175 gal. 100-120 penetration asphalt on various roads, $110,000; 24,000 gal. tar, Tarvia A, 2,568,646 gal. tar, Tarvia B, on various roads, $315,000. F. E. Everett, comr.

N. Y., Buffalo—Mar. 12, by Commissioner Pub. Wks., repairing all asphalt pavements out of guaranty for 1925. C. E. P. Babcock, Municipal Bldg., engr.

N. Y., New York—Mar. 12, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., bituminous concrete surfacing Marcy Pl.; sheet asphalt paving Mosholu Parkway, College, Kossuth and Townsend Aves.; granite block paving Jerome Ave., and granite block repaving Boston Rd.

N. Y., Orangetown—Mar. 20, by Town Bd. concrete paving highway. H. E. Essex, 8 North Bway., Nyack, town clk.; adv. E. N.-R. Mar. 5.

N. J., Freehold—Mar. 18, by Bd. Freeholders Monmouth Co., Court House, reconstructing 1.27 mi. Highlands-Stone Church Rd. 59, Sect. 1, rein.-con. G. K. Allen, Jr., 60 Broad St., Red Bank, engr.; adv. E. N.-R. Mar. 5.

N. J., Plainfield—Mar. 16, by Common Council, sheet asphalt paving 11,020 sq.yd. East and West 4th Sts. A. W. Vars, ch. engr.; adv. E. N.-R. Mar. 5.

N. J., Princeton—Mar. 10, by Freeholders Mercer Co. (Trenton), concrete paving 5,332 ft. Harrison St., here $60,000. H. F. Harris, Court House, Trenton, engr.

N. J., Stewartsville—Mar. 6, by Grewnich Twp. Com. reconstructing 14,609 sq.yd. Stewartsville-Bloomsbury Rd. H. W. Vetter, Belvidere, engr.

Pa., Springdale—Mar. 13, by Boro Council, 32,000 lin.ft. concrete curb and gutter, 143,000 sq.ft. concrete sidewalk and 32,000 ft. stone or brick stringer on Washington, Porter, Willow, North, Oak, Garfield and Walnut Sts., Rosslyn, Elwyn, Maxwell and Lincoln Aves.; grading Ruth and Spring Alleys, Chestnut, Willow, Oak, Walnut, North, Center and Garfield Sts., Elwyn, Lincoln and Marion Aves. Douglass & McKnight, 912 Columbia Bank Bldg., Pittsburgh, boro engrs.

Delaware—Mar. 18, by State Hy. Dept., Dover 4,300 ft. sidewalk at Claymont Contr. 52, improving 4.92 mi. Dover-Little Creek, Contr. CK24, and 148 ft. concrete bridge at Rehoboth, Contr. SC30A; adv. E. N.-R. Mar. 5.

Maryland — Mar. 10, by Dept. Pub. Wks., Baltimore, oiling 429.27 mi. highways in Cecil, Kent, Queen Annes, Caroline, Talbot, Howard, Prince Georges, Montgomery, Anne Arundel, Calvert, Charles, St. Marys, Baltimore, Harford, Carroll, Frederick, Garrett, Allegheny and Washington Counties. J. N. Mackall, chn.; adv. E. N.-R. Mar. 5.

Md., Baltimore—Mar. 11, by Bd. Awards, improving various streets, 11,940 sq.yd. sheet asphalt on concrete, Contr. 269-OANA; and 5,910 sq.yd. cement concrete, Contr. 270-OCOANA. L. G. Turner, 214 East Lexington St., acting chn. paving com.

West Virginia — Mar. 24, by State Rd. Comn., Charleston, improving 6.5 mi. Project 3243, 0.6 mi. Project 140-A, and 4 mi. Project 140-B, Greenbrier Co.; 9 mi. Projects 3059 and 3200, and 1.4 mi. Project 3282-B, Logan Co.; 6 mi. Project 3250-B, Mason Co.; 11.5 mi. Project 44-A and B, Mercer Co.; 0.7 mi. Project 3284, and 4 mi. Project 86, Mingo Co.; 1 mi. Projects 3126 and 3176, and 1.25 mi. Project 3114-B and D, Brooke Co.; 1.5 mi. Project 3249-A, 7.5 mi. Project 3316-A and C, and 1 mi. Project 3163, Calhoun Co.; 0.25 mi. Project 2053, Hancock Co.; 4.3 mi. Project 3132, and 7.1 mi. Project 3164, Jackson Co.; 7.2 mi. Projects 3167-B and C, or 144-C, and 3.6 mi. Project 3167-D or 144-A, Marshall Co.; 2 mi. Project 3262 or 144-B, and 2.5 mi. Project 3292, Wetzel Co.; Project 2063, Ohio Co.; 8.1 mi. Project 3160 or 145-A, Doddridge Co.; 2 mi. Project 3275, Marion Co.; 6.2 mi. Project 3203-D, Preston Co.; 7.2 mi. Project 3215-A and 4 mi. Project 122-C, Grant Co.; 3 mi. Project 3011-A, and 5.6 mi. Project 135-A, Hampshire Co.; 4.3 mi. Project 3030-B, Morgan Co. E. B. Carskadon, secy.; adv. E. N.-R. Mar. 5.

West Virginia — Mar. 26, by State Hy. Dept., Charleston, improving 5.5 mi. Project 137-3, Monroe Co.; 6 mi. Project 141, Pocahontas Co.; 11.5 mi. Project 121, Mercer Co.; 2.7 mi. Project 3129, McDowell Co.; 3.3 mi. Project 3128-A, Wyoming Co.; 4.5 mi. Project 3252-B, Pleasants Co.; 3 mi. Project 3260 or 143-B, Ritchie Co.; 4 mi. Project 3116-C or 143-C, Wood Co.; 4 mi. Project 3291, Tyler Co.; 8.2 mi. Project 3274 or 146-A, Monongalia Co.; 6.5 mi. Project 3229, Taylor Co.; 5 mi. Project 3277-A, Upshur Co.; 6.3 mi. Project 3220, Berkeley Co.; 5 mi. Project 3214-A, Hardy Co.; 5 mi. Project 3217-B, Jefferson Co.; 4.7 mi. Project 122-A, Mineral Co.; 5.1 mi. Project 3211-B, Randolph Co.; 4.4 mi. Project 3174-A, Tucker Co. E. B. Carskadon, secy.; adv. E. N.-R. Mar. 5.

W. Va., Philippi — Mar. 20, by State Road Comn. and Barbour Co., Court House, grading and bituminous macadam surfacing 6.84 mi. Philippi-Buckhannon Rd., Union Dist. between Philippi Dist. line and Upshur Co. line. E. B. Carskadon, secy. State Rd. Comn. J. F. Hewitt, co. clk.

North Carolina — Mar. 24, by State Hy. Comn., Raleigh, hard surfacing 5 projects in 5 counties; and topsoiling sand clay graveling or grading 4 projects in 4 counties; adv. E. N.-R. Mar. 5.

Fla., Tampa—Mar. 13, by Bd. Comrs. Hillsborough Co., W. T. Williams, chn., grading, concrete curbing and 2 in. Filbertine on 5 in. lime rock paving, portions of Grady Ave. and Barcelona $25,000, portions of Bay to Bay Blvd. $35,000, portions of Selville and Vasconia Sts. $35,000, portions of Leona and Corona Sts. $35,000, portions of Tacon and San Luis Sts. $35,000, portions of San Pedro and Obispo Sts. $35,000, portions of Empedrado and Santiago Sts. $25,000, portions of Granada and San Juan Sts. $25,000, Manhattan Ave. $60,000, Hubert Ave. $25,000, portions of Clark and Palmira Aves. $25,000, Lais Ave. $25,000, all in Maryland Manor subdivision; improving portions of Silene and 3rd Aves., at Ballast Point, 7,686 sq.yd. vitr. brick paving on 4 in. rock, 3,351 sq.yd. 2½ in. asphalt block on 5 in. lime rock, 6,744 lin.ft. concrete curbing and guttering, $30,000. A. B. Pimm, Court House, engr.

Alabama—Mar. 18, by State Hy. Dept., Montgomery, grading and gravel surfacing 25.09 mi. Stockton-Little River Rd., Federal Aid Project 140, Baldwin Co., 12.808 mi. Selma-Plantersville Rd., (portion of Selma-Clanton Rd.), State Project 23, Dallas Co., incl. bridge at Sta. 1019-85, 120 cu.yd. concrete, 11,000 lb. reinforcing, etc.; and concrete surfacing 1.925 mi. Demopolis Rd., State Project 65, Maringo Co. W. S. Keller, highway engr.

La., Kentwood—Mar. 17, by Bd. Supervs. Consolidated Rd. Dist. B, Tangipohoa Parish, constructing various highways E. G. Freiler, Kentwood, engr.

La., New Orleans — Mar. 24, by City Comn. second half of paving program for 1925.

O., Cleveland—Mar. 11, by Commissioners Cuyahoga Co., paving Bishop Rd. $58,700, Bishop Rd. 2 $45,700, and Ford Rd. $64,700. F. Lander, Court House, engr. Noted Jan. 22.

Ind., Bloomington—Mar. 7, by B. Welch, engr., Bloomington, concrete paving 13,200 sq.yd. Shields Rd., for Monroe Co. $25,000. Noted Feb. 26.

Ind., Evansville—Mar. 12, by R. Meissinger, co. engr., Evansville, waterbound macadam paving 37,322 sq.yd. Miller Rd., for Vanderburg Co. $59,715.

Ind., Ft. Wayne — Mar. 7, by O. M. Darling, engr., Ft. Wayne, grading and graveling 2.6 mi. Covington Rd., $25,846, and 10 mi. Huntington Rd., $91,955, both 24 ft., for Allen Co.

Ind., Huntington — Mar. 7, by P. V. Smith, engr., Huntington, grading and graveling 5 mi. Shultz Rd., 24 ft., for Huntington Co. $67,955.

Ind., Indianapolis—Mar. 9, by G. Schmidt, engr., 407 Fidelity Trust, concrete paving paving 22,704 sq.yd. Esmon Rd. $77,000, 25,555 sq.yd. McGregor Rd. $82,437, and 15,506 sq.yd. Kassebaum Rd. $56,800; bituminous macadam paving 26,716 sq.yd. Duval Rd $98,013, for Marion Co. Noted Feb. 26.

Ind., Indianapolis — Mar. 12, by G. Schmidt, engr., 407 Fidelity Trust, concrete paving 17,730 sq.yd. Williamson Rd., $54,295, 16,938 sq.yd. Beasley Rd., $54,077, and 28,406 sq.yd. Fitch Rd., $116,327 for Marion Co. Noted Feb. 26.

Ind., Knox—Mar. 7, by C. A. Goode, engr., Knox, grading and graveling 2.1 mi. Hoke Rd., 24 ft., for Stark Co. $27,261.

Ind., Logansport—Mar. 7, by R. A. Hyman, engr., Logansport, grading and graveling 18,100 ft. Pearsey Rd., for Cass Co. $26,769.

Ind., Paoli—Mar. 7, by R. E. Pinnick, engr., Paoli, grading and graveling 17,838 ft., County line Rd., for Orange Co. $26,220.

Ind., Terra Haute—Mar. 7, by G. Grimes, engr., 1006 South Center St., concrete paving 25,344 sq.yd. Sherburn Rd., for Vigo Co. $62,512. Noted Feb. 26.

Ind., Vincennes — Mar. 7, by W. D. Hanlon, engr., Vincennes, grading and graveling 5.324 mi. Borgemeier Rd., $53,353; and 1.663 mi. Parker Rd., $25,306, both 24 ft., for Knox Co. Noted Feb. 26.

Michigan—Mar. 13, by State Hy. Dept. at office Comrs. Bay Co., Bay City, grading and concrete surfacing 1.982 mi. road in Kawkawlin Twp.

Ill., McHenry—Mar. 13, by City Clerk, improving 2 projects, 21,608 sq.yd. concrete or Warrenite paving. $97,118. Wells Eng. Co., Geneva, engrs.

Wis., Appleton—Mar. 24, by E. L. Williams, city clk., sheet asphalt, vibrolithic concrete or Warrenite bitulithic paving, etc., 60,000 sq.yd. 12 streets. To exceed $25,000. Noted Feb. 26. R. M. Connelly, City Hall, engr.

Wis., Milwaukee—Mar. 9, by Dept. Pub. Wks., for 12,160 sq.yd. concrete paving, 3,900 cu.yd. excav., etc., in 11 alleys. G. H. Randall, City Hall, engr.

Wis., Manitowoc — Mar. 13, by A. H. Zander, city clk., grading and rein.-con. paving 12,798 sq.yd. New York Ave., 3,561 sq.yd. South 14th St., and 25,625 sq.yd. Marshall St. To exceed $25000. F. Alter, City Hall, engr. Noted Feb. 26.

Wis., Prairie du Chien—Mar. 12, by W. Deuthin, city clk., improving 2nd, York, Hayden, Michigan, and Church Sts., 15,406 cu.yd. excav., 17,445 lin.ft. concrete curb and gutter, 35,334 sq.yd. vibrolithic rein.-con., one course rein.-con. or asphaltic concrete on concrete. A. Martin, City Hall, engr.

Ia., Davenport—Mar. 11, at office of H. W. Phillips, supt. Public Construction, improving various streets, 28,435 sq.yd. bitulithic or sheet asphalt surfacing, 4,519 sq.yd. rein.-con. or vertical fibre brick surfacing,

Streets and Roads (Continued)

1,030 ft. concrete header, 12,434 cu.yd. excav., 22,552 ft. combined curb and gutter; also various alleys, 19,074 sq.yd. concrete surfacing and 5,454 cu.yd. excav.

North Dakota — Apr. 3, by State Hy. Dept., and Comrs. Pierce Co., at Court House, Rugby, improving 9.078 mi. highway east and north of Balta, Federal Aid Project 204, Sect. B, 89,969 cu.yd. earth, and 3,400 cu.yd. rock excav., etc.

North Dakota — Apr. 7, by State Hy. Comn., and Bd. Comrs. Emmons Co., at Court House, Linton, improving 6.009 mi. highway east of Hagus, Federal Aid Project 269, 32,319 cu.yd. earth and 650 cu.yd. rock excav., etc.

Mo., Kahoka—Mar. 16, by C. I. Keister, city clk., City Hall, grading, curbing and concrete paving 8,600 sq.yd. Main, Morgan, Commercial and Washington Sts. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, engrs.

Mo., St. Louis — Mar. 24, by Bd. Pub. Serv., 208 City Hall, removing brick pavement and foundation and repaving with asphalt on concrete, concrete curb, etc., 6,815 sq.yd. 18th St., $40,600; Warrenite bitulithic reconstructing 4,975 sq.yd. Belt St., $21,400; asphaltic concrete paving, granite curbing, and concrete guttering 2,030 sq.yd. Concord St. $13,700, 615 sq.yd. Pennsylvania St. $5,350, 2,940 sq.yd. Robert Ave. $18,725; building up with new concrete over existing concrete gutters and constructing new concrete gutters and Warrenite on concrete paving 10,450 sq.yd. De Tonty St., $56,800; Warrenite on concrete paving 3,105 sq.yd. San Francisco St. $19,600, 4,200 sq.yd. Lake St. $17,350; concrete paving granite curbing, etc., 1,515 sq.yd. Frederick St., $8,340, and 4,135 sq.yd. Nagel St. $22,600; vitr. brick on concrete, and granite curbing 2,040 sq.yd. West Park St., $12,525. W. W. Horner, city engr.

Ark., Russellville — Mar. 16, by G. S. Neal, town secy., improving various streets in Dist. 4, 10,000 cu.yd. excav., 37,000 ft. combined curb and gutter, 50,000 sq.yd. 6 in. concrete, 28,500 sq.yd. 2 in. asphaltic concrete on 5 in. concrete, 18,000 sq.yd. 6 in. concrete, etc., also 2,790 ft. 15- to 24-in. vitr. clay sewers, etc. S. G. Davies, Morrilton, consult. engr. F. Ragsdale, Russellville, engr. Noted Feb. 19.

Tex., Austin—Mar. 12, by G. S. Mathews, judge Travis Co., grading, etc., 6 mi. Austin-Cameron Rd., 24 ft. shoulder to shoulder. $27,000. O. Leonard, Box 256, co. engr.

Tex., Henrietta—Mar. 24, by J. P. Williams, judge Clay Co., grading and bridging 7.14 mi. State Highway 5, Federal Aid Project 448-A, 28 ft. $83,465. D. M. Puckett, Henrietta, co. engr.

Tex., Sweetwater — Mar. 27, by A. S. Mauzey, judge Nolan Co., grading and bridging 15.31 mi. State Highway 1, Federal Aid Project 444-D, 26 ft. $108,640. Noted Feb. 19.

Calif., Huntington Park — Mar. 16, by City, improving Irvington Ave., 117,232 sq.ft. 6 in. asphaltic concrete, 544 lin.ft. curbing, 14,153 sq.ft. 6 and 8 in. guttering, 1,231 sq.ft. sidewalks. To exceed $25,000. P. E. Kressley, 732 H. W. Hellman Bldg., Los Angeles, engr.

Calif., Sacramento—Mar. 23, by Supervs. Sacramento Co., concrete paving portion of River Rd. $41,500. C. W. Deterding, Jr., Sacramento, co. engr.

Calif., San Diego — Mar. 16, by A. H. Wright, city clk., improving Witherby St., Ingleside Ave. and alley in Block 7, Mission Hills, 63,227 sq.ft. 1.5 in. asphaltic concrete on 4 in. concrete, 5,314 sq.ft. 4 in. concrete, 1,947 cu.yd. excav., 1,942 cu.yd. embankment, 5,313 sq.ft. concrete sidewalks, etc.; Trias and Pine Sts., 41,703 sq.ft. 2 in asphaltic concrete on 3 in. bituminous, 6,504 sq.ft. concrete sidewalks, 1,364 ft. concrete curb, 1,372 cu.yd. excav., etc.; Santa Monica Ave., 74,852 sq.ft. 4 in. concrete paving, 17,784 sq.ft. concrete sidewalks, 3,821 ft. concrete curb, 9,945 cu.yd. excav., 3,864 cu.yd. embankment, etc. H. A. Van Norman, city engr.

BIDS RECEIVED

Mass., Boston—Dept. Pub. Wks., bituminous repairing any street not under guarantee when ordered by Commissioner from Mar. 1 to Dec. 31, from Central Constr. Co., 228 Southampton St., Roxbury, $102,450. Noted Feb. 19.

Mass., Boston—Supply Dept., City Hall, furnishing Dept. Pub. Wks., Water Serv., 150,000 lb. sidewalk castings, from E. L. Le Baron Fdry. Co., Commercial Yard, Brockton, $0.0545 per lb., 200,000 lb. frames and covers, and iron castings, from Worcester Fdry. Co., 180 Prescott St., Worcester, $0.026 per lb.; 100,000 lb. flanged frames and iron castings, from Foran Fdry. Mfg. Co., Flemington, N. Y., $0.0497 per lb.; 57,000 lb. composition castings, from Revere Brass Co., (1) $0.19 per lb. (2) $0.22 per lb., from Gibby Fdry. Co., East Boston (3) $0.17 per lb.; 480,000 gate and hydrant iron castings, from Chemung Fdry. and Supply Co., 502 Erie St., Elmira, N. Y., $0.055 per lb.; 50 hydrants, from A. P. Smith, Norman St., East Orange, N. J., $238 each. Noted Feb. 12.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, Feb. 25, asphalt repaving Empire Blvd., from Sicilian Asphalt Paving Co., 41 Park Row, New York City, $18,237; Hamilton Ave., from Bradner Contg. Co., 830 Jefferson Ave., $77,621; Marcy Ave., from Borough Asphalt Co., 1301 Metropolitan Ave., $43,486. Noted Feb. 19.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Feb. 25, grading Elm St., from Richmond Paving Co., 48 Hylan Blvd., Rosebank, $3,408. Noted Feb. 19.

Pennsylvania—State Hy. Dept., Harrisburg, Feb. 27 **(R. means Route and A. Application)**, rein.-con. surfacing, etc., R. 295, A. 3195, Crawford Co., from Russel Bros., R. D. 5, Youngstown, O., $234,278; R. 99, Cameron and Elk Counties, from W. D. Fote, 130 South 4th St., Olean, N. Y., $506,806; R. 95, McKean Co., from F. D. Ross, 74 High St., Bradford, 443,642; R. 285, A. 3147, Berks Co., from D. L. Risser, 713 Walnut St., Lebanon, $218,576; R. 189, Indiana Co., from Johnson Drake & Piper, Inc., 834 Soo Line Bldg., Minneapolis, Minn., $417,241; R. 5, Luzerne Co., from J. Newcomb, 156 Carroll St., Pittston, $55,014; R. 174, Susquehanna Co., from M. Barber, 180 Henry St., Binghamton, N. Y., $102,477; R. 198, A. 3157, Montgomery Co., from Ambler Davis Co., 1016 Harrison Bldg., Phila., $301,913; R. 256, A. 1078 and 2959, Greene Co., from T. Cronin, South 18th and Fox Sts., Pittsburgh, $293,913; R. 336, A. 2923, Dauphin Co., from W. M. Moser, 121 North Oak St., Mt. Carmel, $127,991; R. 164, Carbon Co., from Sherman & Rhodes, Bridgeville, Del., $360,624; R. 219, Centre Co., from James & Nicholson Co., Inc., 307 Johnstown Trust Bldg., Johnstown, $458,763; R. 83, A. 3194, Crawford Co., from Lewis & Freesinger Co., Rockford, O., $93,441; R. 188, A. 3039, Westmoreland Co. and R. 228, A. 3173, Allegheny Co., from Standard Constr. Co., 1003 18th Ave., Altoona, $34,947 and $60,781 respectively. Noted Feb. 5.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, grading and gravel surfacing 2.55 mi. Many-Robeling Highway, Federal Aid Project 399 A, from L. M. Wimberly, Arcade, $38,795; 4 mi. Many-Zwolle Highway, State Project 398 A, both Sabine Parish, from J. J. Beeson, Fullerton, $35,841.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 7.13 mi. Compti-Golden Highway, from Meyer-Greenwald Constr. Co., Monroe, $38,216, 3.79 mi. Natchitoches-Leesville Highway, State Project 315, and 2.52 mi. State Project 315 A1, from Spencer Bros., Minden, $28,585, all foregoing Natchitoches Parish, and $33,124 respectively, 2.93 mi. Robeline-Many Highway, Sabine Parish, from A. M. Wilkes, Alexandria, $16,122; constructing Black Lake Bridge, on State Project 425 B, from A. M. Blodgett, New Orleans, $10,417. Noted Jan. 22.

Ohio — Dept. Highways & Pub. Wks., Columbus, Feb. 20, grading, bridging and paving roads with **(a)** Kentucky rock asphalt **(b)** concrete **(c)** bituminous macadam asphalt **(d)** tar **(e)** sheet asphalt, incl. stone **(f)** state to furnish stone **(g)** asphaltic macadam, incl. stone **(h)** concrete incl. stone **(i)** waterbound macadam **(j)** rein.-con. brick **(k)** brick **(l)** brick incl. brick **(m)** state to furnish brick **(n)** concrete and waterbound gravel **(o)** bituminous macadam asphalt, incl. stone **(p)** tar macadam **(q)** rein.-con. **(r)** surface treated water bound macadam **(s)** tar macadam, state to furnish stone **(1)** 2.585 mi. Sect. "I" Lima-Ottawa Rd., Allen Co. **(2)** 1.87 mi. Sect. "E-I" Lima-Spencerville Rd. Allen Co. **(3)** 3.636 mi. Sect. "V" Cincinnati-Dayton Rd., Butler Co. **(4)** 0.329 mi. Sect. "Monroe" Cincinnati-Dayton Rd., Butler Co. **(5)** 3.666 mi. Sect. "W-I" Cincinnati-Dayton Rd., Butler Co. **(6)** 4.839 mi. Sect. "A" Harrisburg-Westville Rd., Columbiana and Mahoning Counties **(7)** 4.544 mi. Sect. "A" Cleveland-Westville Richfield Rd., Cuyahoga Co. **(8)** 2.077 mi. Sect. "A-2" Lancaster-Logan Rd., Fairfield Co. **(9)** 0.262 mi. Sect. "Harrisburg" Columbus-Washington C. H. Rd., Franklin Co. **(10)** 0.04 mi. Sect. "L Bridge" Mt. Vernon-Coshocton Rd. Knox Co. **(11)** 5.979 mi. Sect. "F" Columbus-Cincinnati Rd., Madison Co. **(12)** 1.301 mi. Sect. "G" Bono-Port Clinton Rd., Ottawa Co. **(13)** 3 mi. Sect. "U-2" Ohio River Rd., Scioto Co. **(14)** 0.979 mi. Sect. "New Comerstown" Urichsville-New Comerstown Rd., Tuscarawas Co. **(15)** 0.637 mi. Sect. "New Comerstown," Tuscarawas Co. **(16)** 4.166 mi. Sect. "I" Columbus-Cincinnati Rd., Warren Co. **(17)** 4.034 mi. Sect. "A-2" Bucyrus-Sandusky Rd., Wyandot Co. **(18)** 1.003 mi. Sect. "A-2" Bucyrus-Upper Sandusky Rd., Wyandot Co. **(19)** 1.46 mi. Sect. "I-2" Bucyrus-Upper Sandusky Rd. Wyandot Co. **(20)** 0.98 mi. Sect. "A" Nevada-Northern Rd., Wyandot Co., from R. I. Harris, Hicksville **(a1)** $64,875; from Churchill & Enck, Lima **(b1)** $71,360; from R. Stone Contg. Co., 433 Amer. Bank Bldg., Lima **(a2)** $43,417 **(c2)** $38,587 **(d2)** $38,221 **(e5)** $132,350 **(f11)** $79,777 **(o11)** $119,543 **(p11)** $118,280 **(r16)** $92,442 **(s11)** $78,513; from Andrews Asphalt Paving Co., Hamilton **(e3)** $136,920 **(f3)** $106,920 **(o4)** $10,844 **(f4)** $8,844 **(f5)** $98,108; from Pringle & Buerkle, Batavia **(g3)** $112,359 **(g4)** $8,851 **(g5)** $119,734; from J. I. Geiger, 409 Dayton Savings & Trust Bldg., Dayton **(f3)** $118,448 **(h3)** $118,684 **(f4)** $9,277 **(f5)** $108,169 **(h5)** $110,172; from Brewer & Brewer, Chillicothe **(f4)** $8,844; from Bigler Bros., Middletown **(h4)** $8,949; from G. A. Gialdini & Co., 15 East Front St., Youngstown, **(i6)** $95,795; from Dorsey Constr. Co., Findlay **(j7)** $261,660; from L. L. Adler, Worthington **(k7)** $301,942; from Lewis & Copeland, Lima **(l8)** $85,193; from W. C. Brown, Chillicothe, **(l9)** $13,692; from O. M. Junk, Chillicothe **(m9)** $11,000; from F. M. Schreckengast, Newark **(n10)** $19,672; from H. W. Bergman, Genoa, **(c12)** $34,953 **(p12)** $35,507; from Modern Constr. Co., Fremont **(q12)** $41,707 **(m18)** $25,240 **(m19)** $38,700; from S. Monroe Co., Portsmouth **(l13)** $142,143; from W. L. Johnson Co., Hicksville **(q14)** $28,526; from D. Kissling, Bucyrus **(q15)** $18,183; from Peerless Constr. Co., Fremont, **(l17)** $138,500 **(m17)** $98,517; from Johnson Eng. Co., Napoleon, **(l18)** $32,629 **(l19)** $50,771; from L. D. Kear, Wharton, **(a20)** $23,092 **(c20)** $21,398 **(p20)** $21,680. Noted Feb. 12.

Wis., Juneau — O. A. Schumacher, city clk., Feb. 24, paving 20,088 sq.yd. various streets, from Cast Stone Constr. Co., South Barstow St., Eau Claire, rein.-con. at $2.09 per sq.yd., total $62,566; from Whitewater Bridge Co., Whitewater, vibrolithic concrete at $2.24, total $65,011. Noted Feb. 12.

Wis., Oshkosh—City Feb. 24, re-surfacing with **(a)** asphalt **(b)** concrete **(c)** vibrolithic **(d)** tar filled Macadam **(1)** 5,060 sq.yd. Wisconsin Ave., **(2)** 9,010 sq.yd. 11th St. **(3)** 4,881 sq.yd. Sawyer Ave. **(4)** 1,810 sq.yd. 15th St., from J. Rasmussen & Sons Co., foot of 7th St., **(a1)** $2.70 per sq.yd. **(a2)** $2.65 **(a3)** $3 **(a4)** $2; from Lampert Constr. Co., Main St., **(b1)** $2.74; from C. Johnson, Hayes Blk. **(b2)** $2.57 **(b4)** $2.48 **(d4)** $2; from L. A. Larsen & Co., Main St., **(b3)** $3.45 **(c3)** $3.61. Noted Dec. 25.

Ind., Albion — Noble Co., grading and graveling 3.1 mi. Sanders Rd., 24 ft., from C. E. Holderbaum, Columbia City, $27,750. Engrs. est. $31,396.

Ind., Boonville — Warrick Co., grading and graveling 3.6 mi. Sousott Rd., 24 ft., from A. B. Kremp & Son, Jasper, $26,386. Engrs. est. $34,000.

Ind., La Porte—La Porte Co., grading and graveling 3.6 mi. Leubker Rd., 24 ft., from A. W. Taylor & Co., La Porte, $37,620. Engrs. est. $38,750.

Neb., Omaha — Paving with **(a)** Class "B" asphalt **(b)** Class "B" asphaltic concrete **(c)** Class "K" brick **(d)** asphalt **(e)** concrete **(f)** vitr. brick **(g)** Class "B" art stone in **(1)** 2,730 sq.yd. Dist. 1859 **(2)** 747 sq.yd. Dist. 1922 **(3)** 1,051 yd. Dist. 2043 **(4)** 1,632 yd. Dist. 2089 **(5)** 2,259 yd. Dist. 2237 **(6)** 1,423 yd. Dist. 2300 **(7)** 1,897 yd. Dist. 2376 **(8)** 924 yd. Dist. 2395 **(9)** 1,028 yd. Dist. 2426 **(10)** 4,441 yd. Dist. 2481 **(11)** 1,778 yd. Dist. 2525 **(12)** 681 sq.yd. Dist. 2554 **(13)** 698 sq.yd. Dist. 2560 **(14)** 3,242 sq.yd. Dist. 2568 **(15)** 1,858 sq.yd. Dist. 2587 **(16)** 4,060 sq.yd. Dist. 2591 **(17)** 600 sq.yd. Dist. 2595 **(18)** 453 sq.yd. Dist. 2600 **(19)** 1,421 sq.yd. Dist. 2603 **(20)** 11,092 sq.yd. Dist. 2610 **(21)** 3,512 sq.yd. Dist. 2613 **(22)** 903 sq.yd. Dist. 2619 **(23)** 946 sq.yd. Dist. 2621 **(24)** 770 sq.yd. Dist. 2622 **(25)** Dist. 2625 **(26)** 423 yd. Dist. 2631 **(27)** 2,104 yd. Dist. 2652 **(28)** 633 yd. Dist. 2676 **(29)** 684 sq.yd. Dist. 2697 **(30)** 613 sq.yd. Dist. 2696 **(31)** 1,321 sq.yd. Dist. 2701 **(32)** 13,680 sq.yd. Dist. 2712 **(33)** 16,559 sq.yd. Dist. 2720 **(34)** 4,261 sq.yd. Dist. 2602, from J. Sherlock, 1805 Dodge St., **(a1)** $2.58 per sq.yd. **(b1)** $2.28 **(d1)** $2.56 **(e4)** $2.26 **(d5)** $2.58 **(e5)** $2.28 **(d6)** $2.58 **(e6)** $2.28 **(d7)** $2.56 **(e7)** $2.28 **(d8)** $2.65 **(d9)** $2.65 **(e9)** $2.35 **(d10)** $2.55 **(d11)** $2.59 **(e11)** $2.29 **(d15)** $2.57 **(e15)** $2.27 **(d16)** $2.56 **(e16)** $2.26 **(f20)** $3.37 **(e23)** $2.37 **(d29)** $2.71 **(e29)** $2.41; from J. C. Redd, 2560 Mary St., **(e1)** $3.375 per sq.yd. **(f4)** $3.36 **(f5)** $3.365 **(f6)** $3.375

Streets and Roads (Continued)

(f7) $3.365 (f9) $3.36 (f11) $3.36 (f12) $3.38 (f13) $3.37 (f16) $3.355 (f19) $3.38 (g21) $2.20 (f23) $3.39 (f24) $3.38 (f29) $3.37 (f30) $3.375 (g33) $2.25; from Natl. Constr. Co., 310 Arthur Bldg., (d2) $2.64 per sq.yd. (e2) $2.34 (f2) $3.44 (e10) $2.24 (d13) $2.67 (e13) $2.37 (d14) $2.52 (e14) $2.23 (d18) $2.52 (e18) $2.23 (d19) $2.67 (e19) $2.37 (d20) $2.64 (e20) $2.23 (d21) $2.52 (e21) $2.23 (d22) $2.64 (e22) $2.34 (d24) $2.74 (e24) $2.44 (d25) $9.75 for top and $7.85 for binder (d27) $2.52 (e27) $2.23 (d31) $2.52 (e31) $2.23 (d32) $2.48 (e32) $2.21 (d33) $2.52 (e33) $2.23; from S. Catalano, 2206 South 12th St., (g3, 17, 18 and 28) $1.62 each (g18) $1.63; from J. Kerns Constr. Co., 1809 Dodge St., (e8) $2.28 (f8) $3.40 (f10) $3.39 (d12) $2.65 (e12) $2.40 (f14, 15, 18, 21 and 22) $3.40 each (d23) $2.60 (g27) $3.40 (b30) $2.33 (g31) $3.40 (d32) $10 for top and $7 for binder (f32) $3.39 (f33) $3.40; from L. S. Noble, 1944 South 12th St., (g26) $1.65.

Tex., Sonora — Sutton Co., grading and bridging State Highway 27, from W. T. Montgomery, Alamo Bank Bldg., San Antonio, $264,901. Noted Oct. 23.

Calif., San Diego—A. H. Wright, city clk., Feb. 24, from Griffith Co., 25 14th St., improving 6th and Date Sts., 233,776 sq.ft. 2 in. on 3 in. asphaltic concrete at $0.16 per sq.ft., 2,641 sq.ft. concrete sidewalks $0.22, 915 lin.ft. concrete curb $0.65, etc., total $38,968. Noted Feb. 12.

CONTRACTS AWARDED

N. Y., New York—J. Miller, pres. Manhattan Boro., curbing and flagging Chittenden Ave., to M. Del Balso, 660 East 221st St. $38,978; asphalt repaving Amsterdam Ave., to Gaffney Constr. Co., 450 East 91st St., $82,926; widening and granite block repaving 14th St., to C. Helbock, 633 Wales Ave., $100,579; granite block repaving 34th St., to Poirier Contg. Co., 1476 Bway., $68,-057. Noted Feb. 19.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro., grading and concrete paving Hylan Blvd., to J. Johnson Sons, 455 Bway., West New Brighton, $285,313. Noted Feb. 19.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. surfacing 7 in. edges and 5 in. center 14,400 sq.yd. Application 985, Canoe Twp., Indiana Co., to Milligan & Ringler, Blairsville, $3.44 per sq.yd., total $67,647. Noted Mar. 5.

Pennsylvania—State Dept. Hys., Harrisburg, rein.-con. surfacing 7 ft. edges, 5 ft. center, 22,820 sq.yd. Route 236, Application 3063, Potter Co., to United Constr. Co., Lock Haven, $3 per sq.yd., total $101,602; 10,960 sq.yd. Application 550, York Co., to H. T. Campbell Sons, Towson, Md., $3.43 per sq.yd., total $57,648. Noted Jan. 29.

North Carolina—State Hy. Dept., Raleigh, concrete paving 6.4 mi. road from State Highway Route 11 to Stokes, and 4.1 mi. road from Ayden to Green Co. line, both 16 ft., to Roberts Paving Co., Salisbury, Md., $130,970 and $83,902 respectively.

North Carolina—State Hy. Comn., Raleigh, asphalt on concrete paving 11.14 mi. State Project 642, Iredell Co., to Stearns Bros., Inc., Statesville, $443,655; and 13.77 mi. State Project 284, Wayne Co., to Noll Constr. Co., Charlotte, $413,029. Noted Feb. 29.

Ga., Valdosta—Sheet asphalt on concrete surfacing 50,000 sq.yd. various streets, to Dixon Contg. Co., 793 East St. Julian St., Savannah, approximately $110,000.

Fla., Fort Mead — For paving 40,000 sq.yd. various streets with Findey type, Method "B," to Pryor & Dean, Haines City, $52,628.

Ala., Anniston — Asphalt surfacing 4 blocks Lorraine and Woodstock Aves., 40 ft., to Morgan-Hill Paving Co., Woodward Bldg., Birmingham, $31,776, engrs. est. $32,000. Asphalt on concrete surfacing 2 blocks West 10th St., 40 ft., to Rhodes Constr. Co., Nashville, $17,090, engrs. est. $17,200. Noted Jan. 8.

La., Shreveport — Caddo Parish Police Jury, constructing 16 mi. hard surfaced road of 4 principal highways radiating from here, to Independent Gravel Co., Shreveport, $158,420.

Miss., Philadelphia—Neshoba Co., grading, bridging, graveling, etc., 10.5 mi. Philadelphia-Carthage Rd., 18 ft., to Buchanan, Champenois & Banks, Meridian, $35,556; and 6.2 mi. Philadelphia-DeKalb Rd., 18 ft., to L. Minor, Brooksville, $21,653. Noted Jan. 29.

Ind., Terra Haute—Vigo Co., hardsurfacing 3.1 mi. Jackson Rd., to J. P. Welch, 815 South 5th St., $61,310. Engrs. est. $76,011. Noted Feb. 26.

Ind., Wabash — Wabash Co., concrete paving 11,616 ft. Dar Rd., and 12,672 ft. La Salle Rd., to Pike Constr. Co., Wabash, $26,490 and $27,460 respectively. Noted Feb. 26.

O., Cincinnati—Hamilton Co., to F. Moore, Newport, Ky., paving Wesselman Rd., 19,420 sq.yd. concrete 25,300 cu.yd. grading and excav. $0.40 per cu.yd., etc. total $98,922. Engrs. est. $104,674. Noted Feb. 19.

O., Cleveland—City, Feb. 11, paving with (a) brick (b) sheet asphalt, (c) asphaltic concrete on (1) Barrington Ave. (2) West 149th St. (3) East 135th St. (4) Signet Ave., (1 to 4 inclusive) involves 23,350 sq.yd. vitr. brick or sheet asphalt, 9,540 lin.ft. stone curbing, 11,100 lin.ft. 4 in. drain tile gutter, 9,230 cu.yd. earth excav. (5) Munn Rd. (6) West 155th St. (7) Rockport Ave. (8) East 143rd St. (9) Ivanhoe Rd. (5 to 9 inclusive) involves 35,990 sq.yd. vitr. brick or sheet asphalt 15,480 lin.ft. stone curbing, 16,900 lin.ft. 4 in. drain tile gutter, 20,990 cu.yd. earth excav. (10) East 157th St. (11) Mt. View Ave. (12) East 127th St. (13) East 103rd St. (14) East 147th St. (15) Stevenson Rd. (10 to 15 inclusive) involves 12,825 sq.yd. vitr. brick or asphaltic concrete, 9,220 lin.ft. stone curbing, 9,270 lin.ft. 4 in. drain tile gutter, 6,743 cu.yd. earth excav., from Gould & Maybach, 16,113 Saranec Rd. (a1) $12,306 (b1) $9,678 (a9) $23,858 (b9) $18,384 (a10) $14,598 (c10) $11,558 (a15) $24,496 (c15) $19,413; from Cleveland Trinidad Paving Co., The Arcade (a2) $47,889 (b2) $39,958 (a6) $13,639 (b6) $10,759 (a7) $20,270 (b7) $16,069 (a8) $38,-130 (b8) $31,268; from Enterprise Paving & Constr. Co., 8444 Bway. (3) $7,599 (a12) $13,215 (c12) $10,393 (13) $5,282; from Bentley Bros., 3030 Euclid Ave. (a4) $22,-708 (b4) $18,093 (c11) $8,555; from Freshwater Constr. Co., Davis & Farley Bldg. (a5) $62,204 (b5) $62,710 (14) $4,073. Noted Feb. 12.

Michigan — State Hy. Dept. at office Comrs. Ingham Co., Mason, grading and gravel surfacing 2.531 mi. East Eden-Leslie Rd. 1, to C. A. Diehl, Dansville, $15,290; 1.007 mi. Bell Oak Rd. 1, to Briggs & Worden, Dansville, $5,808; 2.524 mi. Saslett-Bell Oak Rd. 2, to Walker & Van Doslen, Ney, O., $20,832; 4.692 mi. Okemos-Mt. Hope Rd. 1, to O. Klett, Hartford, $40,742.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete surfacing 7.37 mi. Route 23, Sect. 24, to Harrison Eng. Corp., Mutual Bldg., Kansas City, Mo., $163,100; 8.63 mi. Route 36, Sect. 18, Pike Co., to E. J. Eiff Co., Quincy, $201,763; 18.38 mi. Route 1, Sects. 2, 3, 28 and 29, White, Saline and Gallatin Counties, to Ransom & Sherwood, Palestine, $344,000; 11.79 mi. Route 17, Sects. 28 and 29, La-Salle and Livingston Counties, to W. D. Lonergan Constr. Co., Streator, $217,000. Noted Dec. 11 and 25.

Wis., La Crosse—Bd. Pub. Wks., brick paving 31,506 sq.yd. various streets, also concrete curbing and guttering 6,350 ft. Badger St., from T. E. Wooley, 148 West Ave., $132,541 and $5,524 respectively. Noted Feb. 19.

Wis., Menasha—J. F. DeCaro, city clk., curbing, guttering, and vibrolithic concrete paving approximately 10,556 sq.yd. Tayco and Elm Sts., to J. Schneider Contg. Co., Menasha, $38,000. Noted Feb. 12.

Ia., Maquoketa—Grading and 7 in. concrete surfacing, etc. 22,790 sq.yd. various streets, to Western States Paving Co., Davenport, at $2.19 per sq.yd. Noted Feb. 5.

Ia., Marion—Linn Co., grading, concrete surfacing, etc. 17.75 mi. Federal Aid Project 96, Sects. A and B, 18 ft., to W. Horrabin, 15 East College St., Iowa City, at $2.54 and $2.48 per sq.yd. respectively. Noted Feb. 5.

Minn., Austin—Austin Co., gravel surfacing 45.5 mi. Jobs 2501 to 2506 (inclusive) and Jobs 2508 and 2509, to C. Byer, Jackson, $53,779. Noted Jan. 29.

Mont., Butte — Paving Harrison Ave., between Harvard and Holmes Sts., to J. Hexem, 1941 Harrison St., $61,759.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, surfacing 14th St. viaduct, 4,870 sq.yd. Willite, to Central Paving & Constr. Co., 6161 Maple Ave., $7,306, wood block, granite and miscellaneous brick paving and granitoid sidewalks, to F. A. Stiers, 4500 Enright Ave., $40,475. Noted Feb. 26.

Arkansas—State Hy. Dept., Little Rock, Feb. 20, improving Little Rock-Spring Lake Highway, 18,800 cu.yd. grading, 1,500 cu.yd. loose rock and 85 cu.yd. solid rock excav., 53,000 sq.yd. 5 in. concrete paving, from M. D. L. Cook, Southern Trust Bldg., Little Rock, $98,839. Noted Feb. 12.

Tex., Baird—Callahan Co., grading and bridging 8.39 mi. State Highway 1, 26 ft., to Jordan Constr. Co., Plainview, 3.69 mi. concrete $22 per mi., 48,626 cu.yd. earth excav. $0.20, 9,984 cu.yd. borrow excav. $0.20, 30,253 lbs. reinforcing $0.06, etc., total $27,147. Engrs. est. $36,400. Noted Feb. 19.

Tex., Corsicana — Permanent brick on concrete paving various streets to Panhandle Constr. Co., Abilene, $49,514. Noted Feb. 26.

Tex., Floresville — Wilson Co. to W. T. Montgomery, 705 Alamo Natl. Bank Bldg., San Antonio, grading, surfacing and bridging 12.12 mi. State Highway 81, Federal Aid Project 440-A $225,000, 9.43 mi. Federal Aid Project 440-B $160,000 and 9.03 mi. Federal Aid Project 440-C $150,000, all 18 ft. Noted Feb. 26.

Tex., Galveston — Galveston Co., with limestone, rock asphalt or asphaltic concrete resurfacing 75,000 sq.yd. streets in business section, to S. Shambaugh, 1400 Dowling St., Houston, $48,000.

Tex., Paducah—See "Waterworks."

Tex., Sonora —A. Johnson, judge Sutton Co., Feb. 17, (e. e. means engrs. ests.) grading crushed stone surfacing and bridging 10.84 mi. State Highway 27, Federal Aid Project 425-B. 18 ft., from Armstrong & Armstrong, Roswell, N. M., $76,417, e. e. $85,000; 12.25 mi. State Highway 27, Federal Aid Project 425-C, and 7.86 mi. State Highway 27, Federal Aid Project 425-A, both 18 ft., from W. T. Montgomery, Alamo Bank Bldg., San Antonio, $112,601 and $75,391 respectively. e. e. $125,000 and $83,000 respectively. Noted Feb. 12.

Okla., Cherokee—Grading, concrete curbing and concrete surfacing 12,650 sq.yd. South Grand Ave., to Garfield County Constr. Co., Enid, $35,193. Engrs. est. $40,-000. Noted Nov. 20.

Okla., El Reno — Grading and concrete surfacing 7,100 sq.yd. South Rock Island Ave., to Connelly Constr. Co., El Reno. Engrs. est. $35,000.

Okla., Tulsa—Grading, curbing and concrete surfacing 23,730 sq.yd. Dist. 614, to Tibbets & Pleasant, 209 North Nogales St., $102,824. Engrs. est. $108,838.

Nevada—State Hy. Comn., Carson City, Feb. 18, improving road between Vista and Hafed, Federal Aid Project 65-A, Washoe Co., 100,000 cu.yd. excav., 580 cu.yd. hand placed rock fill, 256,311 sta.yd. overhaul, etc., to J. P. Holland, 10 Shoreview Pl., San Francisco, Calif., $96,827. Noted Feb. 12.

Arizona—W. C. Lefebvre, state engr., c/o Apache Co. Highway Comn., St. Johns, grading, bridging and graveling 19,936 cu. yd. St. Johns-Springerville Highway, Federal Aid Project 68-B, to Udall & Udall, St. Johns, $71,742. Noted Jan. 22.

Calif., Coronado — For approximately 195,000 sq.ft. 4 in. concrete paving various alleys, to Pioneer Truck Co., 954 3rd St., San Diego, approximately $36,750. Noted Oct. 30.

Calif., San Francisco — Bd. Pub. Wks., Feb. 18, from C. B. Christensen, Chancery Bldg., Los Angeles, improving Delong St. between Orizaba and Liebig Sts., 11,690 sq. ft. concrete paving at $0.306 per sq.ft., 62,-000 sq.ft. asphaltic concrete paving $0.253, total $34,092; from A. E. Hennessy, 724 Sharon Bldg., improving Judah St. between 31st and 41st Aves., 33,574 cu.yd. cut at $0.10 per cu.yd., 34,984 cu.yd. fill $0.30, 148,141 sq.ft. asphaltic concrete paving $0.25, total $64,799. Noted Feb. 12.

Buildings—Industrial

PROPOSED WORK

Me., Camden—Plant—F. E. Page, 68 Essex St., Boston, Mass., having plans prepared by J. C. and J. H. Stevens, 184 Middle St., Portland, 2 story and basement, 90 x 107 ft. spinning and weaving plant, brick and timber. $100,000.

Mass., Cambridge (Boston P. O.) — Bakery—Natl. Biscuit Co. plans 6 or 7 story bakery. $3,000,000. Engineer and architect not selected.

Mass., Springfield—Power—United Electric Co., 73 State St., plans electric light station, Wilbraham Ave. To exceed $40,000. Engineer and architect not selected.

Mass., Worcester — Repair and Service Garage—J. P. Coughlin, c/o Coughlin Electric Co., plans 4 story, rein.-con., Commercial and Exchange Sts. $490,000. Private plans.

N. Y., Buffalo—Factory—Plastergon Wall Board Co., 196 Philadelphia Ave., had plans prepared two 1-story, 150 x 200 ft., rein.-con., brick and steel factory, Philadelphia Ave. $250,000. Architect's name withheld.

Buildings—Industrial (Continued)

N. J., Jersey City—Plant—Natural Products Chemical Co., subsidiary of Natural Products Refining Co., 902-910 Garfield Ave., plans chemical plant. H. A. Goman, pres.

Pa., Johnstown — Factory — Mitchell Spring & Mfg. Co., Inc., Horner St., plans 2 story, 30 x 160 ft., steel and concrete, Horner St. $100,000.

Pa., Lewisburg—Factory—Ruhl & Watson, Mifflinburg, and W. Rhoades, Lewisburg, plan 2 story and part basement, 50 x 120 ft., steel and concrete, factory, also 800 ft. railroad siding. $100,000.

Md., Baltimore — Factory — Maryland Glass Corp., Mt. Winans, had plans prepared 2 story, 30 x 83 ft., brick and steel, plain foundation, Linden Ave. and Ontario St. $50,000. Private plans.

Md., Conowingo—Power Plant—Susquehanna Power Co. (owned by Phila. Electric Co., 20th and Chestnut Sts., Phila., Pa.) threaten to abandon plans for construction of proposed hydro-electric project on Susquehanna River, here, unless State Officials withdraw proposals that have been made for the protection of the interests of Maryland. Noted Jan. 29.

N. C., New Bern—Freight Warehouse—Atlantic Coast Line Ry., 71 Bway., New York City, plans freight warehouse, 130 ft. long, Queen St., with additional spur track facilities to serve same, here. J. E. Willoughby, Wilmington, ch. engr.

N. C., Thomasville—Mill—T. E. Jennings, plans large hosiery mill.

O., Cleveland—Factory etc.—Elyria Iron & Steel Co., H. B. Wide, pres., 232 East 131st St., having plans prepared by E. McGeorge, archt. and engr.; 3030 Euclid Ave., 160 x 160 ft. factory addition, 3 story, 40 x 100 ft. office, 70 x 100 ft. garage, 40 x 50 ft. storage building, and 40 x 46 ft., boiler house, all brick, steel and concrete, East 131st St., $200,000.

O., Cleveland—Factory and Garage—V. Perry, c/o J. F. Bontempo, archt., 308 Euclid Ave. Bldg., having plans prepared 1 and 2 story, 50 x 182 ft., brick and steel, Woodland St. $150,000.

O., Columbus — Factory, etc. — Ralston Steel Car Co., East Columbus St., had plans prepared Braun & Watson, 60 x 180 ft., brick and tile wheel and axle building, 63 x 105 ft., corrugated iron extension to main building, and 56 x 70 ft. storage building, saw-tooth construction, $65,000. Braun & Watson, 1183 South High St., engrs.

O., East Youngstown—Mill—Youngstown Sheet & Tube Co., Youngstown, soon takes bids new tube mill incl. 2 finishing and 1 piecing mill, here. $2,000,000. J. A. Campbell, pres.

Mich., Detroit—Shop—Dodge Bros., Inc., Jos. Campau Ave., had plans prepared by Smith, Hinchman & Gryls, 800 Marquette Bldg., 1 story, 75 x 500 ft., brick and steel, plain foundation, Jos. Campau Ave.

Ill., Cairo—Mill—Cairo Oil Mill Co., G. M. Greenwood, pres., having preliminary plans prepared 1 story and basement, rein.-con. and steel, Sycamore St. and Illinois Central R.R. tracks. $150,000. E. M. Murray, 86 North 3rd St., Memphis, engr.

Wis., Cobb—Factory—Cobb Canning Co. plans 2 story and basement, rein.-con., brick and steel factory, plain foundation. $50,000. Engineer and architect not selected.

Wis., Manitowoc—Plant—See "Unclassified under Two Rivers."

Wis., Milwaukee — Cold Storage and Warehouse—Amer. Wholesale Grocery Co., 235 Bway., having plans prepared by W. J. Kozick, 664 26th St., 4 story and basement, brick and concrete, plain foundation, Chicago St. $60,000.

Wis., West Allis—Shop—Allis Chalmers Mfg. Co., Greenfield Ave., plans brick and steel transformer shop. To exceed $40,000. Engineer and architect not selected.

Minn., Minneapolis—Laundry—City Dye House, 2637 Nicollet Ave., having plans prepared by R. E. Crosier, 915 New York Life Bldg., 2 story and basement, 128 x 132 ft., rein.-con. and brick, Lyndale and Hawthorne Aves. $65,000.

Minn., St. Paul—Warehouse and Garage—St. Paul Gas Light Co., F. C. Hoffman, secy., 6th and Cedar Sts., having plans prepared by Toltz, King & Day, Builders Exchange Bldg., 3 story and basement, rein.-con., brick, tile and stone, Rice and Atwater Sts. $100,000.

Mo., Bagnell — Plant — Missouri Hydro-Electric Power Co., Kansas City, having plans prepared hydro-electric plant, incl. 2,450 ft. dam, 140 ft. high with 1,500 ft. spillway across Osage River, 7 mi. from here. $10,600,000. W. Cravens, of Kansas City Joint State Bank, 104 New York Life Bldg., Kansas City, pres. Burns & McDonnell, Interstate Bldg., Kansas City, engrs.

Tex., Brownsville — Cotton Gin — T. Henderson, Harlingen, making plans 5 stand, cotton gin, 80 saw capacity, brick and concrete, here. $60,000. Private plans.

Tex., Dennison—Factory—Barrow-Johnson Co., Lynchburg, Va., plans overall factory, here. $80,000. Engineer and architect not announced.

Tex., Ft. Worth—Freight House—Gulf, Colorado & Santa Fe Ry., 112 East 9th St., having plans prepared by W. J. Smith, 408 Santa Fe Bldg., Galveston, 2 story and basement, 40 x 100 ft., 1 story and basement, 40 x 200 ft. freight house, etc. $125,000.

Tex., Greenville—Mill—Greenville Cotton Oil Mill plans 80 x 200 ft., steel and corrugated iron or rein.-con. mill. $100,000. C. Duncan, supt. Engineer and architect to be selected soon.

Tex., Mexia—Plant—Phillips Ice & Coal Co. soon takes bids 1 story, brick and concrete plant, 35 ton capacity. $50,000. Private plans.

Tex., San Antonio—Plants, etc.—Ward Heater Co., 1243 South Hope St., Los Angeles, Calif., making plans 1 and 2 story plating and assembling plants, storage warehouse and administration offices, brick and rein.-con., here. $250,000. Private plans.

Tex., Uvalde—Cotton Gin—H. L. Guinn, Laredo, soon takes bids 2 story, 8 stand, 80 saw capacity, brick and concrete cotton gin, here. $45,000. Private plans.

Okla., Waurika — Compress — Waurika Cotton Compress Co. having preliminary plans prepared rebuilding 1 story, 220 x 368 ft., timber, plain foundation, C. St., destroyed by fire. $300,000. E. Leverett, Waurika, engr.

California — Sub-Station, etc. — Coast Valley Gas & Electric Co., 11 East Gabilan St., Salinas, plans rein.-con. sub-station, approximately $200,000, replacing and extending gas mains, $60,175, electric lines, transformers and meters, $244,195, all above work in Salinas; new sub-station at Gonzales, $18,000; new station equipment at Soledad, $7,840; new sub-station transformers at Monterey, $15,000.

Calif., Emeryville — Sub-station — Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans rein.-con. sub-station. $125,000.

Calif., Fresno — Factory — S. Tripolitz, Fulton and Fresno Sts., plans 1 or 2 story, 80 x 100 ft. candy factory, brick, Railroad Ave.

Calif., Los Angeles—Factory—D and B Pump & Supply Co., 301 West Avenue 26, had plans prepared by Pacific Iron & Steel Co., 2657 Humboldt St., 1 story, 50 x 150 ft., steel, Avenue 26.

Calif., Los Angeles—Factory—Thompson Glass Co., c/o W. J. Saunders, archts., Laughlin Bldg., had plans prepared 1 story, 175 x 175 ft., brick, Stanford St. and Merrill Ave.

Calif., Salinas—Plant, etc.—Coast Valleys Gas & Electric Co., 11 East Gabilan St., plans gas generating plant annex and gas holder with 200,000 cu.ft. capacity. $80,000.

Calif., San Francisco — Plant — Sterling Chemical Co., Inc., Vernon, c/o G. M. Kohler, pres., plans chemical plant, here. $500,000.

Calif., San Jose — Factory — California Paste Co., 259 South Market St., having plans prepared by H. Bolwin, 411 Garland St., 1 story, brick or concrete, Alameda and Auzerals Sts. $45,000.

Calif., Santa Barbara — Power Plant — See "Excavation, Drainage, Irrigation, Levees."

Calif., Upland — Plant — Uplands Citrus Assn., plans rein.-con. packing plant, 3rd Ave. and A St. $160,000.

Ont., Windsor—Factory—Bayer Aspirin Co. plans new factory. $200,000.

BIDS DESIRED

Pa., McKees Rocks — Round House — Pittsburgh & Lake Erie R.R., Pittsburgh & Lake Erie Terminal, Pittsburgh, taking bids remodeling Round House 1, 1-story, brick and steel, here. A. R. Raymer, c/o owner, ch. engr.

Wis., Milwaukee—Factory—Mar. 12, by G. Zagel & Bros., archts., 144 Oneida St., 2 story and basement, 62 x 115 ft., brick, plain foundation, 30th St., for Builders Needs, Inc., 1243 30th St. $45,000.

Minn., Hibbing — Plant — Mar. 16, by City, J. L. Golob, recdr., 1 story, 36 x 90 ft., brick addition to steam heating and power plant, etc. $300,000. R. D. Thomas, 1200 2nd Ave. S., Minneapolis, engr.

BIDS RECEIVED

N. Y., Corona (Sta. Flushing)—Shop—Bd. Transportation, 49 Lafayette St., New York City, Feb. 27, structural steel for inspection shop, here, from Levering & Garrigues, 552 West 23rd St., New York City, $69,000. Noted Feb. 19.

CONTRACTS AWARDED

Mass., Cambridge — Factory — General Radio Co., 11 Windsor St., 4 story and basement, 50 x 100 ft., rein.-con., Windsor and Cambridge Sts., to W. M. Bailey Co., 88 Broad St., Boston. Archts. est. to exceed $40,000. Noted Feb. 12.

Mass., Cambridge (Boston P. O.)—Plant—Ginn & Co., 15 Ashburton Pl., Boston, 1 story, 40 x 100 ft., rein.-con., brick and steel addition, plain foundation, to Scully Co., 1st St., East Cambridge. Archts. est. $40,000. Noted Feb. 5.

Mass., Dorchester (Boston P. O.) — Repair and Service Garage—S. Cole, 246 Blue Hill Ave., 1 story, rein.-con., and brick, Loyloa St., to H. Nawn Contg. Co., 82 Savin St., Roxbury. Archts. $45,000.

Mass., Lowell—Power House—Wamsutt Power Co., Glidden Bldg., brick power house, to Stone and Webster Inc., 147 Milk St., Boston. Archts. est. $1,000,000.

Mass., Lynn—Repair and Service Garage—R. T. Pender, 41 Sutton St., will build 1 story, 50 x 160 ft., brick and tile, Washington St., by day labor. $40,000. Sanborn & Weed, 38 Exchange St., archt. Noted Jan. 8.

Mass., Roxbury (Boston P. O.)—Foundry — Mechanics Iron Fdry. Co., H. E. Gibby, treas., 38 Kemble St., 1 story, 105 x 150 ft., rein.-con., brick and steel, Kemble St., to W. Preble Co., 11 Pemberton Sq., Boston. Archts. est. $75,000. Noted Feb. 5.

Conn., Bridgeport—Factory, etc.—Amer. Tube & Stamping Co., 766 Stratford Ave., will build 30 x 43 ft. power house, 30 x 36 ft. factory, 1 story, 9 x 40 ft., 11 x 94 ft., and 13 x 60 ft. switch and motor buildings, brick and steel, Stratford Ave., by day labor. $50,000. Private plans.

N. Y., Coney Island (Sta. Brooklyn)—Bd. Transportation, 49 Lafayette St., New York City, foundations for main repair shop, here, to A. A. Johnson Corp., Queens Blvd., Long Island City, $579,000; enclosure of electrical repair shop, to J. H. Duncan Inc., 5718 2nd Ave., Brooklyn, $192,400. Noted Feb. 19.

N. Y., Fulton — Factory — Oswego Falls Corp. of Fulton, 1 and 2 story, brick, steel and timber factory addition, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $150,000.

N. Y., Long Island City—Factory—Ronzoni Macaroni Co., 612 Jackson Ave., 5 story, 85 x 180 ft., rein.-con., brick and steel, plain foundation, Jackson and Hulst Aves., to White Constr. Co., Inc., 95 Madison Ave., New York City. Archts. est. $350,000.

N. J., Millville—Plant—Millville Mfg. Co., 2 story, 60 x 185 ft., rein.-con. and steel addition, to M. C. Tuttle Co., 862 Park Sq. Bldg., Boston, Mass.

Pa., Coraopolis—Plant—Standard Steel Spring Co., 843 4th Ave., general contract 1 story and basement, 60 x 90 ft., brick, rein.-con. and steel addition, to Pittsburgh Bridge & Iron Wks., Bessemer Bldg., Pittsburgh. Archts. est. $40,000.

Md., Baltimore — Factory — Parker, Thomas & Rice, archts., Union Trust Bldg., 1 story, 102 x 136 ft. brick factory, plain foundation, Hamburg and Bayard Sts., to C. L. Stockhausen Co., Gay and Water Sts., for Standard Gas Equipment Corp. $60,000. Noted Feb. 19.

N. C., Chimney Rock — Power Plant — See "Dams."

O., Baltimore—Factory, etc.—Fairfield Paper Co., 1 story, 50 x 200 ft. factory, and 1 story, 50 x 50 ft. power house, brick, steel and concrete, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland. Archts. est. $100,000.

O., Cleveland — Sub-Station — Cleveland Electric Illuminating Co., c/o E. J. Cook, Illuminating Bldg., 4 story and basement, brick, steel and concrete, 737 Bolivar Rd., to Lundoff-Bicknell Co., B. F. Keith Bldg. Archts. est. $300,000. Noted Jan. 15.

Ind., Columbus — Shop — Dunlap & Co., will build 2 story and basement, 60 x 150 ft. machine shop, rein.-con. and brick, by day labor. $45,000. Private plans. Noted Dec. 18.

Ind., Rushville—Factory—L. Andres, will build 1 story, 60 x 100 ft., rein.-con. and brick factory, by day labor. $45,000. Private plans. Noted Dec. 18.

Ill., Rockford—Factory—Rockford Show Case Co., 2 story, 90 x 90 ft., brick and concrete addition, to J. Gustafson, Rockford. Archts. est. $40,000.

Wis., Wausau—Factory—Curtis & Yale Co., Clinton St. and South 1st Ave., will build 2 story, 75 x 150 ft., brick and timber addition, plain foundation, by day labor. Private plans.

Ia., Davenport—Plant—Linwood Stone & Cement Co., Kahl Bldg., cement manufacturing plant, concrete and steel, to H. W. Horst Co., Horst Bldg., Rock Island, Ill.

Ia., Sioux City — Power Station — Sioux City Gas & Electric Co., 524 Nebraska St., 90 x 184 ft. boiler room, 160 ft. high, 90 x 184 ft. turbine room, 40 ft. high, preparation room, 160 ft. high, and 26 x 100 ft. service station, 40 ft. high, incl. two 10,000

Buildings—Industrial (Continued)

kw. general electric turbines, three 1,100 hp. Stirling boilers, etc., to U. G. I. Contg. Co., Broad and Arch Sts., Phila., Pa. Archts. est. $2,000,000.

Minn., Minneapolis—Factory—North Star Woolen Mills Co., 218 South 2nd St., general contract 6 story and basement, 84 x 127 ft., rein.-con., brick and steel, 6th Aves. and 1st St., to C. F. Haglin & Sons Co., 226 Lumber Exch., $175,000. Noted Feb. 19.

Mo., Kansas City — Plant — Columbian Steel Tank Co., 1601 West 12th St., will build (1st unit) 3 story and basement, 130 x 253 rein.-con. and brick, 1601 West 12th St., by day labor. $500,000. Total cost $2,000,000. G. I. Sanderlin, archt., and A. M. Griffin, engr., both c/o owner.

Mo., Kansas City—Plant—Radial Warehouse Co., 4 story, 6,000 bbl. flour blending plant and complete conveyor system with pilers on each floor, etc., Amour Rd. and Charlotte St., to Wolf Co., Chambersburg, Pa., approximately $100,000.

Tex., Wellington — Power Plant — See "Material and Equipment."

Calif., Beverly Hills — Plant — Beverly Hills Ice Co., 1 story, 82 x 175 ft., rein.-con. plant, to J. M. Cooper, Marsh-Strong Bldg., Los Angeles, cost plus percentage basis.

Calif., Richmond — Creamery — Eagle Creamery, 5th St. and Macdonald Ave., 1 story, 50 x 112 ft., brick, 5th St. and Macdonald Ave., to O. R. Ludwig, 903 Barrett Ave., $55,000.

Calif., San Francisco — Factory — H. H. Gutterson, archt., 526 Powell St., 1 story and basement, rein.-con., Mission and 11th Sts., to G. Wagner, Inc., 181 South Park St., for White Truck Co., Van Ness Ave., approximately $300,000. Noted Jan. 29.

Calif., San Francisco — Mill — City Sash & Door Co., c/o R. Crothers, Monadnock Bldg., 2 story, brick or concrete, Mission St. near 14th St., to O. Johnson, 2435 Spaulding Ave., Berkeley, to exceed $40,000. Noted Feb. 19.

B. C., Marpole—Distillery—United Distillers Ltd., Marpole, timber buildings for distillery, Fraser River, here, to Smith Bros. & Wilson, 850 Hastings St. W., Vancouver, $84,000.

Buildings—Commercial

PROPOSED WORK

Me., Bangor — Business — S. Cohen, 118 Main St., having plans prepared by F. A. Patterson, 16 Central St., and takes bids about Mar. 6, 5 story, 30 x 80 ft., brick and steel, plain foundation, Broad St. $150,000.

N. H., Rochester — High School — School Comn., having preliminary plans prepared by J. E. Richardson, 56 Grove St., Dover, for high school addition. $150,000.

Mass., Allston (Boston P. O.)—School—Schoolhouse Dept., City Hall, Boston, plans additional units to Thomas Gardner Dist. School, Commonwealth and Brookline Aves., here. $150,000. Engineer and architect not selected.

Mass., Avon — Home — Swedish Luthern Children's Home, plans home. $150,000. Engineer and architect not selected.

Mass., Billerica — School — School Comn. having sketches made by Brainard & Leeds, 89 Franklin St., Boston, Talbot School, 2 story, brick and stone. $150,000.

Mass., Boston — Apartment — Sixty-Five Commonwealth Ave. Trust, c/o McLaughlin & Burr, archts., 88 Tremont St., having revised plans prepared 7 story and basement, 80 x 105 ft., rein.-con., brick and limestone, plain foundation, 65 Commonwealth Ave. $300,000. Former bids rejected. Noted Jan. 29.

Mass., Boston — Hotel — Statler Hotel Corp., 7th Ave. and 33rd St., New York City, rejected bids Dec. 15, 14 story and basement, brick, stone and terra cotta hotel, Park Sq. Sect., Providence St., Columbus and St. James Aves. $4,000,000. Project postponed. Noted Dec. 11.

Mass., Boston—Garage—J. M. Howe, 10 State St., takes bids about Mar. 15, 6 story, 27,000 ft. floor space, rein.-con. and steel, plain foundation, Cambridge and Freen Sts. $1,500,000. R. H. Doane, 162 Newbury St., archt. Noted Feb. 5.

Mass., Boston—Store and Office—Owner, c/o Strickland Blodgett & Law, archts., 26 Pemberton Sq., having plans prepared altering and constructing 5 story and basement, brick and stone addition, 20-24 Newberry St. $150,000.

Mass., Bridgewater — Church — Central Square Church Society, A. C. Boyden, clk., raising $150,000 funds for church. Engineer and architect not selected.

Mass., Brighton (Boston P. O.) — High School—Schoolhouse Dept., City Hall, Boston, plans new high school, here. $1,000,000. Engineer and architect not selected.

Mass., Brookline (Boston P. O.) — Library—City Bd. Selectmen, plan branch library, Coolidge Corner, $150,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.)—Home—City, Dept. Pub. Wks., City Hall, plans city home near Fresh Pond. $200,000. Engineer and architect not selected.

Mass., Dalton — School — City, E. H. Pierce, chn. Building Com., having plans prepared by Thompson, Holmes & Converse, 101 Park Ave., New York City, 2 story and basement, 346,000 cu.ft. floor space, 1st St. and Glennon Ave. $150,000. Noted Jan. 8.

Mass., Dorchester (Boston P. O.) — School—Schoolhouse Dept., Boston, having sketches made by J. M. Gray, 175 High St., Boston, 2 story and basement, brick addition to Minot Dist. School, here. $200,000. Schoolhouse Eng. Dept., Boston, engrs.

Mass., Edgartown—Church—St. Elizabeths Catholic Church, 602 Tucker St., Fall River, having plans prepared by J. I. Higgins, 11 Pleasant St., Fall River, 1 story and basement, rein.-con., brick and stone, Main and School Sts., here. $150,000 or more.

Mass., Hyde Park (Boston P. O.)—High School—Schoolhouse Dept., Boston, plans Senior High School, here. $1,500,000. Engineer and architect not selected.

Mass., Lowell—Bank—Lowell Trust Co., 273 Central St., having preliminary sketches made by H. P. Graves, 40 Middlesex St., for bank, Central St. $150,000.

Mass., Pittsfield — Church — Christian Science Benevolent Society, takes bids about Mar. 15, 1 story and basement 70 x 100 ft., brick and stone, Wendall St. To exceed $150,000. J. M. Vance, 24 North St., archt. Noted Jan. 5.

Mass., Quincy (Boston P. O.)—Parish—Christ Church, having plans prepared by G. W. Chickering, 162 Newbury St., Boston, 2 story and basement, 40 x 140 ft., brick, granite and terra cotta, Quincy Ave. and Elm St. $150,000.

Mass., Revere—Club—Revere Post 940, J. Hanken, chn. Building Com., Wave Ave., raising $150,000 or more funds for Veterans of Foreign Wars Club Building. Engineer and architect not selected.

Mass., Roxbury (Boston P. O.)—School—Schoolhouse Dept., City Hall, Boston, takes bids about Mar. 10, 3 story and basement, 50 x 120 ft., brick and stone addition to Sherwin Dist. School, here. $200,000. McLaughlin & Burr, 88 Tremont St., Boston, archts. Noted Sept. 25.

Mass., Somerville — Store and Office — Hillson Associates, c/o J. A. Quirk, archt., 10 Tremont St., Boston, having sketches made 2 story and basement, brick and stone, Bway. and Boston Ave., here. $150,000.

Mass., Springfield — Hotel — Bridgeway Hotel Corp., H. M. Stanford, Bridge St., having plans prepared by Huestis & Huestis, 45 Chestnut St., 10 story and basement, 70 x 140 ft., steel addition, Bridge St. $1,000,000.

Mass., Springfield—Hotel—Cooley Hotel Co., c/o C. T. and A. J. Shean, proprietors, Cooley Hotel, plans steel addition, Main and Liberty Sts. $1,000,000. A. H. LaValle, 293 Bridge St., archt.

Mass., Springfield — Terminal — Hartford & Springfield Street Ry. Co., plans 3 story brick and steel trolley terminal, 22-28 Worthington St. $150,000.

Mass., Springfield—Springfield Y. M. C. A. having plans prepared 7 story and basement, 50 x 120 ft., steel addition, Chestnut St. $500,000. International Bureau Y. M. C. A., 347 Madison Ave., New York City, archts. Noted Jan. 29.

R. I., Providence—Memorial—Providence Post, Amer. Legion, City Com. on Memorial Buildings, City Hall, plans limestone memorial building with auditorium 1,200 seating capacity, etc. $500,000. Dodd & Pierpont, 6 Thomas St., archts.

R. I., Westerly — Library — City having sketches made by Ludlow & Peabody, 101 Park Ave., New York City, for library.

Conn., Hartford — Business — Hudson Cloak & Suit Co., 845 Main St., having plans prepared by Berenson & Moses, 30 Allyn St., 8 story, 50 x 50 ft., brick, steel and terra cotta, plain foundation, State and Main St. $200,000. Noted Dec. 25.

Conn., Hartford — School — City, W. G. Camp, chn., 817 Windsor Ave., plans school, Sanford St., for North East Dist. $150,000. Engineer and architect not selected.

N. Y., Brooklyn—Bank—Brooklyn Trust Co., 177 Montague St., soon takes bids 3 story, brick, steel and stone, plain foundation, Ocean Ave. $300,000. York & Sawyer, 100 East 42nd St., New York City, archts. and engrs.

N. Y., Coney Island (Brooklyn P. O.)—Hotel—J. Palmieri, 63 Park Row, plans brick and steel, plain foundation, Boardwalk and West 31st St. $3,000,000. Engineer and architect not selected.

N. Y., Corona—(Sta. Flushing)—Small-Strausberg Queens Theatres, Inc., c/o W. Small, pres., 29 Maples St., Brooklyn, plans brick, steel and stone, plain foundation, here. $600,000. Engineer and architect not selected.

N. Y., New York — Hospital — Lutheran Hospital, 341 Convent Ave., plans brick, steel and stone, plain foundation, Convent Ave. $2,000,000. Engineer and architect not selected.

N. Y., New York—Office—N. Natanson, c/o H. Craig Severance, archt., 36 West 44th St., having plans prepared brick, steel and stone, plain foundation, Madison Ave. and 49th St. $500,000.

N. Y., New York—Theatre—Westwood Realty Co., c/o M. Zipkes, archt. and engr., 25 West 43rd St., having plans prepared 100 x 100 ft., brick, steel and stone, plain foundation, Londell Ave. $300,000.

N. Y., St. George—Office—Title Guarantee & Trust Co., 176 Bway., New York City, had plans prepared by James Whitford, archt. and engr.; Tompkinsville, 6 story brick, steel and stone, plain foundation Bay St.

N. J., Asbury Park — Hotel — Berkley-Cartaret Hotel, c/o Warren & Wetmore, archts., 16 East 47th St., New York City, having plans prepared brick, steel and stone hotel, plain foundation. $1,250,000.

N. J., Camden—Warehouse—L. W. Bell, 1006 South 6th St., plans 5 story and basement, 100 x 100 ft., rein.-con. and brick, plain foundation, Haddon Ave. and Euclid St. Architect and engineers' names withheld.

N. J., Jersey City — Community — Y.M.H.A., c/o A. Gold, 642 Newark Ave., having plans prepared brick and steel, plain foundation Bergen Ave. $600,000. N. Welitoff, 249 Washington Sq., archt. and engr.

N. J., Jersey City—School—Bd. Educ., Harrison St., having plans prepared by J. T. Rowland, 100 Sip Ave., brick and steel addition to P. S. 11, Bergen Sq. $750,000.

Pa., Allentown — School — School Dist. having plans prepared by Rhue & Lange, 10 North 6th St., for 25 to 30 rooms school, Lumber and Turner Sts. $450,000. T. P. Wenner, secy.

Pa., Erie—High Echool—Bd. Educ. having plans prepared by W. W. Meyers, Library Bldg., Woodrow Wilson Junior High School, 2 and 3 story and basement, 200 x 280 ft., brick on hollow tile and steel, 28th and Reed Sts. $850,000.

Pa., Erie—Y. W. C. A., 1045 West 9th St., having plans prepared by W. W. Meyers, Library Bldg., 2 story and basement, 71 x 160 ft., brick on hollow tile and steel, 7th St. $200,000.

Pa., Phila.—Store and garage—M. and C. Ross, North Amer. Bldg., having plans prepared by Ballinger Co., 12th and Chestnut Sts., 4 story and basement, 115 x 127 ft., rein.-con. and brick, plain foundation, 2027-39 Sansom St. $200,000.

Pa., Oil City—Bank—Oil City Natl. Bank having plans prepared by Weary & Alford, 1923 Calumet Ave., Chicago, 1 story, mezzanine and basement, 63 x 100 ft., stone and terra cotta, Seneca St. $500,000.

N. C., Kinston—High School—City plans new high school. $200,000-$300,000. Engineer and architect not announced.

Ala., Huntsville — Office — Huntsville Realty Co. having plans prepared by R. H. Hunt & Co., James Bldg., Chattanooga, Tenn., 10 story, 75 x 150 ft., rein.-con. hotel on Old McGee Hotel site. $500,000.

Miss., Jackson—Church—First Baptist Congregation soon takes bids 3 story, 90 x 150 ft., concrete, steel, tile and slate, concrete and pile foundation. $250,000. N. W. Overstreet, 3-4-5 Overstreet Bldg., archt.

La., Coushatta — Court House — Police Jury Red River Parish had plans prepared by J. W. Smith, Monroe, 3 story stone court house. $185,000.

La., Lafayette—Schools—Voted $350,000 bonds for schools.

Tenn., Nashville — City Hall and Court House—City and Davidson Co. plan city hall and court house, on Public Square. $1,000,000. H. E. Howse, mayor. L. Hickman, co. judge.

Tenn., Nashville — Office — Southern Insurance Co., 128 8th Ave. N., plans new building, 8th Ave. between Church and Broad Sts. $500,000. Engineer and architect not selected.

Tenn., Nashville — Office — Cotton States Life Insurance Co., Stahlman Bldg., C. Lorigans, pres., Atlanta, Ga., had plans prepared by Marr & Holman, Stahlman Bldg., 10 story, rein.-con., brick and stone, 6th Ave. and Deaderick St. $500,000.

Tenn., Somerville—Court House—Fayette Co. plans rebuilding court house, to replace one recently destroyed by fire. $150,000.

Buildings—Commercial (Continued)

O., Akron—Storage—B. F. Goodrich Rubber Co., South Main St., plans brick, steel and concrete storage building. $500,000.

O., Alliance — Mercantile — Kresge Co., Kresge Bldg., Detroit, Mich., plans 4 and 5 story mercantile building, East Main St., here. $150,000.

O., Ashtabula—School—St. Joseph Roman Catholic Church, M. O'Brien, pastor, 474 Lake Ave., having plans prepared by McGarry & McGarry, 4614 Prospect Ave., Cleveland, 2 story and basement, brick, steel and concrete, $150,000.

O., Athens—Municipal—City had sketches made by W. Mills, Nelsonville, 2 story and basement, 60 x 125 ft., rein.-con. and brick municipal building. $150,000.

O., Canton — Mercantile — S. J. Stone, Genl. Del., having plans prepared by M. Miller, 517 Herbert Pl., 3 story and basement, 33 x 137 ft. mercantile building.

O., Canton—Schools—City having plans prepared by C. E. Firestone, Renkert Bldg., new Fairmont Park Building, Clarendon School Relief Building and administration building at West North School grounds; by Vernon, Redding & Associates, Mansfield, high school at 6th St. S. W., $800,000; by Richards, McCarty & Bulford, 584 East Broad St., Columbus, addition to Gibbs Ave. school; and by Dearmont & Epperson, Canton, new units at Wells Building and Woodland Ave. grounds. Noted Sept. 11.

O., Cincinnati—School—City, Clifton Ave., having plans prepared by H. Hake, Telephone Bldg., 3 story and basement, 60 x 207 ft. rein.-con. and brick school of electrical engineering in Burnet Woods. $375,000.

O., Cleveland—Apartment—E. G. Garson, c/o Stotler, De Groot & Haber, 810 Leader News Bldg., plans 2 story and basement, brick and timber, East 101st St. near Hough Ave. $150,000. Engineer and architect not selected.

O., Cleveland—Garage and Sales—Vance Motor Co., W. L. Vance, pres., East 9th St. and Central Ave., having plans prepared by A. F. Foose, 212 Auditorium Garage Bldg., 2 story, 62 ft. top, and 4 story, 35 x 132 ft. rear additions, brick and rein.-con., East 9th St. and Central Ave. $150,000.

O., Cleveland — Store and Hotel—Realty Operating Co., c/o J. L. Falk, pres., 420 Sloan Bldg., having plans prepared by G. A. Grieble, Sloan Bldg., 7 story, 66 x 130 ft., brick and concrete, 1110 Superior Ave. $250,000.

O., Cleveland — Store and Office — Eight Thousand Nine Hundred Fourteen Euclid Co., c/o H. Pierce, pres., 305 Williamson Bldg., having plans prepared by N. Petti, Williamson Bldg., 2 or 3 story, 49 x 120 ft., brick, steel and concrete, 8914 Euclid Ave. $150,000.

O., Cleveland Heights (Warrensville P. O.)—High School—Bd. Educ., W. G. Nesbit, clk., 1781 Lee Rd., having plans prepared by J. H. Graham & Co., 1610 Euclid Ave., Cleveland, Junior High School, 2 story, brick, steel and concrete, Roxboro Rd. $450,000.

O., Cleveland Heights (Warrensville P. O.)—Schools—Bd. Educ., W. H. Nesbitt, dir., 1781 Lee Rd., having plans prepared by J. H. Graham & Co., 1612 Euclid Ave., Cleveland, two, 2 story and basement, brick, steel and concrete additions, one on Euclid Blvd., $180,000, and other on Noble Rd., $160,000.

O., Toledo—Dance Hall—F. B. Conklin, 2925 East Overbrook Rd., Cleveland, and O. L. Beck, Main St., Akron, plan 1 story, brick, steel and concrete dance hall, here. $175,000. I. J. Goldston, 310 Ohio Bldg., Akron, archt.

O., Springfield—Church—Covenant Presbyterian Church, having plans prepared by G. Savage, Witherspoon Bldg., Phila., Pa., for church. $200,000.

O., Zanesville—Hotel—A. P. Rogge, soon takes bids 50 room hotel addition. $150,000.

O., Zanesville—Lodge—Directors Fraternal Order of Eagles Lodge, take bids in spring, 2 story and basement lodge, North 3rd St. $150,000. F. O. Eagle, secy.

Ind., Gary — Lodge, etc. — Knights of Columbus, having preliminary plans prepared by H. L. Porter & R. McNally, 3030 Euclid Ave., Cleveland, O., 11 story, 125 x 125 ft. lodge hall and club house. $750,000.

Ind., Mt. Vernon — Memorial — Comrs., Posey Co., having plans prepared by C. E. Werking & Sons, Richmond, 2 story and basement, 200 x 260 ft., brick, memorial building. $200,000.

Mich., Detroit—Bank and Office—Union Trust Co., Union Trust Bldg., Griswold St. plans 16 story and basement, 80 x 220 ft., rein.-con., brick and steel. Engineer and architect not selected.

Mich., Detroit—Hotel—B. A. Scott, 1710 Ford Bldg., had plans prepared by M. H. Finkel, 1333 Book Bldg., 7 story and basement, 80 x 140 ft. rein.-con., brick and steel, plain foundation, Canfield and Woodward Aves.

Mich., Detroit—Hotel—P. Miller, 111 Putnam Ave., having plans prepared by Halpin & Jewell, 1024 Hammond Bldg., 12 story and basement, 600 room woman's dormitory rein.-con., brick and steel, plain foundation, Kirby Ave. $2,500,000.

Mich., Detroit—Office and Garage—Paige Detroit Motor Co., Fort St. and McKinstry Ave., having plans prepared by A. Kahn, 1000 Marquette Bldg., 2 story and part basement, 53 x 342 ft., rein.-con. brick and steel, plain foundation, Warren Ave. $150,000.

Mich., Detroit—Stores and Office—B. F. Stephenson, 1340 Penobscot Bldg., plans 4 or 6 story and basement, 80 x 100 ft. rein.-con., brick and steel, Cass Ave. and Boulevard. Engineer and architect not selected.

Mich., Kalamazoo — School — Bd. Educ. had plans prepared by Billingham & Cobb, Kalamazoo, 2 story and basement, 14 room, rein.-con., brick and steel, plain foundation, Lovell St. $150,000.

Ill., Princeton—High School—Princeton Twp. School Bd. having preliminary plans prepared by Royer, Danely & Smith, Urbana, rebuilding 3 story, concrete, brick and stone high school, recently destroyed by fire. $300,000.

Ill., Quincy—Church and Sunday School—Central Baptist Congregation, 7th and Vermont Sts., plans 2 story and basement, concrete, brick and stone, Main and 14th Sts. $150,000.

Wis., Milwaukee — Apartment — C. J. Keller & Son, archts., 432 Bway., take bids about Mar. 9, 4 story and basement, 56 x 118 ft., brick and steel, plain foundation, Wells and 29th Sts. $150,000. Owners name withheld. Noted Jan. 29.

Wis., Milwaukee — Apartment — M. Tullgren & Sons, archts., 425 East Water St., take bids about Mar. 10, 3 story and basement, brick and tile, plain foundation, Lisbon Ave., for Park Investment Co., c/o M. Peters, 765 Sherman Blvd. $150,000. Noted Feb. 5.

Wis., Milwaukee — Apartment — H. R. Graham, 145 3rd St., plans 4 story and basement, 42 x 100 ft., brick and tile, plain foundation, Grand Ave. $150,000. Private plans.

Wis., Milwaukee — Apartment — O. F. Priebe, 3501 Highland Blvd., having plans prepared by W. J. Kozick, 664 24th St., 4 story and basement, brick and tile, plain foundation, 14th Ave. $165,000.

Wis., Milwaukee — Bank — Natl. Exch. Bank, 367 Bway., having preliminary plans prepared by Van Ryn & De Gelleke, 114 Grand Ave., 1 story and basement, brick, stone and concrete, plain foundation, East Water St. $150,000.

Wis., Milwaukee — Church — St. Adalbert Congregation, c/o W. Kruszka, pastor, 825 Becher St., plans brick, steel and stone, plain foundation, 14th Ave. $250,000. Engineer and architect not selected.

Wis., Milwaukee — Theatre — S. Ludwig, 4127 Highland Blvd., having preliminary plans prepared by J. Topzant, 144 Oneida St., 2 story and basement, brick and tile theatre, plain foundation. $150,000.

Wis., Racine—Apartment—W. M. Lewis, 202 Badger Bldg., having preliminary plans prepared by J. M. Matson, Baker Block, 6 story and basement, brick and concrete, plain foundation, Main St. $250,000.

Wis., Wauwatosa—High School—H. W. Grove, treas. Union Free High School Dist., 5902 Grand Ave., as receiving competitive sketches until Mar. 29, 3 story and basement, brick and concrete, plain foundation. $500,000. Engineer and architect not selected.

Ia., Cedar Rapids—Memorial—City plans 3 story and basement, 160 x 270 ft., rein.-con., brick and stone memorial building. Election in spring $750,000 bonds for same. Engineer and architect not selected.

Minn., St. Paul—Apartment—A. H. and W. V. Heimbach, 1611 University Ave., St. Paul, having plans prepared by M. A. Wright, 288 Bunker Ave., three 2 story and basements, brick, Milton Ave., and St. Clair St. $150,000.

Kan., Chanute—School—Defeated $350,000 bonds for school, for Bd. Educ. T. W. Williamson & Co., 312 Central Natl. Bank Bldg., Topeka, archts. Notde Jan. 29.

Kan., Dodge City—College—State Bd. Administration, Capitol, Topeka, having preliminary plans prepared by C. M. Routledge, Capitol Bldg., Topeka, 3 story, rein.-con., brick and stone, at State Teachers College, here. $164,000.

Kan., Hutchinson — Administration and Auditorium — State Bd. Administration, Capitol, Topeka, having preliminary plans prepared by C. M. Routledge, Capitol, Topeka, 3 story and basement, 59 x 145 ft., and 63 x 108 ft., rein.-con., stone and steel, at State Reformatory, here.

Kan., Kansas City — Court House — Wyandotte Co. having plans prepared by Wight, 1st Natl. Bank Bldg., Kansas City, Mo., court house, 7th and Ann Sts. $1,000,000.

Kan., Lawrence—Memorial—Kansas University Memorial Assn., c/o S. G. Elliott, soon takes bids on (1st unit) 3 story and basement, 75 x 150 ft., concrete, brick and stone, campus, $250,000. Pond & Pond, 6 North Michigan Ave., Chicago, archts. Goldwin & Goldsmith, 306 Marion Bldg., Lawrence, associated archts. Noted July 3.

Kan., Manhattan—Dormitory—State Bd. Administration, Capitol, Topeka, having preliminary plans prepared by C. M. Routledge, Capitol, Topeka, girls dormitory, 2 story and basement, brick and concrete, at Kansas Agricultural College, here. $200,000.

Kan., Topeka—Home—Methodist Episcopal Congregation, Munson and College Sts., had plans prepared by T. W. Williamson & Co., 312 Central Natl. Bank Bldg., 3 story and basement, 42 x 88 ft., and 42 x 150 ft., rein.-con. and brick addition. $150,000.

Mo., Columbia—Church—First Baptist Congregation having preliminary plans prepared by L. B. Pendleton, McMenil Bldg., St. Louis, 1 story and basement, 125 x 280 ft., rein.-con., brick and stone, Bway. and Columbia Aves. $250,000.

Mo., Columbia—City Hall—Election Apr. 4, $250,000 bonds, 2 or 3 story 125 x 200 ft., brick, concrete and stone city hall. Holden, Ferris & Barnes, A. & R. Bldg., Kansas City, archts.

Mo., Kansas City—Market and Terminal—Riverside Storage Co., plans 3 story, 2 blocks long and 1 block wide, rein.-con. and steel, plain foundation, 2nd St. and Grand Ave. $1,500,000. C. A. Smith, 602 Finance Bldg., archt.

Mo., Kansas City—Theater and Store—J. C. Nichols Development Co., 911 Commerce Bldg., had sketches made theater, etc., brick, concrete and terra cotta, 47th St. and Mill Creek Blvd.

Mo., Springfield—Garage—N. F. Fellow, et al., Springfield, having preliminary plans prepared 3 story and basement, rein.-con. and brick commercial garage and storage building, St. Louis St. $300,000.

Mo., Tarkio—School—Bd. Educ., c/o E. M. Hackett, clk., having preliminary plans prepared by H. I. Goddard, 612 Interstate Bldg., 2 story and part basement, 96 x 186 ft., brick and concrete school to contain manual training, science and agriculture departments, gymnasium, etc.

Ark., Little Rock—High School—Bd. Educ., c/o W. N. Brandon, pres., having preliminary plans prepared by J. P. Almand, Boyle Bldg., Mann & Stern, A. O. U. W. Bldg., and Whittenberg, Deloney & Watts, 3 story, rein.-con., brick and stone high school. $2,000,000.

Tex., Abilene—City Hall—M. L. Sellers, city secy., plans new city hall, Main St. $150,000 bond election soon. Engineer and architect not selected.

Tex., Corpus Christi — Hotel — Nueces Hotel Co., c/o W. W. Jones, plans 5 story and basement addition. $200,000. Engineer and architect not selected.

Tex., Dallas — Schools — Plans election $1,000,000 bonds for schools. Engineer and architect not announced. M. G. James, city secy.

Tex., El Paso—Home—Hotel Dieu having plans prepared by J. E. Overbeck, 3 story and part basement, 78 x 114 ft. nurses home, rein.-con., brick and stone, plain foundation. $150,000.

Tex., Gonzales—Hotel—Syndicate plans 4 story and part basement, brick and stone hotel, plain foundation. $150,000. Work is being financed by subscription and sponsored by Chamber of Commerce. Engineer and architect not selected.

Tex., San Antonio — Home — Protestant Churches having plans prepared by Adams & Adams, Gibbs Bldg., 3 story and part basement, rein.-con., brick and stone, plain foundation, Bandera Rd. and Woodlawn Ave. $250,000.

Tex., San Antonio—Hotel—J. S. Lankford, Gibbs Bldg., had tentative plans prepared 4 and 5 story and basement, brick and stone, plain foundation. Torciso Dr.,

Buildings—Commercial (Continued)

Argyle and Patterson Sts. $160,000. Engineer and architect not selected.

Okla., Bartlesville—Church—First Baptist Church making preliminary plans 1 story, 78 x 145 ft., brick, plain foundation, Osage St. $150,000. Engineer and architect not selected.

Colo., Denver—School—City having plans prepared by F. Redding, Tabor Opera House Bldg., addition to Opportunity School, 13th and Welton Sts. $150,000.

Nev., Reno—Exposition—State Assembly Carson City, voted $250,000 bonds for state exposition building, here.

Wash., Seattle — Apartment — J. A. Creutzer, archt., Leary Bldg., takes bids about Mar. 17, 8 story and basement, rein.-con., Oliver and Belmont Sts., for C. F. Tregoning, c/o architect. $225,000.

Ore., Portland—Hotel—Baker Constr. Co. plans 6 story, 100 x 100 ft., rein.-con., 13th and Alder Sts. T. W. Baker, 629 East 63rd St. N., pres. Engineer and architect not selected.

Calif., Galt — High School — Galt High School Dist., plans new election $150,000 bonds, fireproof high school. Noted Oct. 16.

Calif., Marysville—High School—Plans election $400,000 bonds for group of fireproof buildings, on Knights Park site, for Marysville High School Dist.

Calif., San Diego — Office — City Physicians had plans prepared by F. W. Stevenson, 533 Spreckles Bldg., Medical Arts Building, 10 story, 100 x 100 ft., rein.-con., 11th and C Sts. To exceed $500,000.

Calif., San Francisco—Apartment—Monson Bros., 251 Kearny St., plans 6 to 10 story and basement, rein.-con., Turk and Jones Sts. $200,000 or more.

Calif., San Francisco—Apartment—New York Community Apartment House, Inc., c/o G. A. Shaffer, 560 Sutter St., having plans prepared by W. F. Gunnison, 57 Post St., 10 and 13 story, rein.-con. and steel, Hyde St. To exceed $500,000.

Calif., San Francisco — Hospital — San Francisco Drugless Sanitarium & Hospital, c/o F. H. Miller, pres., 18th Ave. and Geary St., having plans prepared by Shea & Shea, 254 Montgomery St., 5 story and basement, 120 bed unit, rein.-con. hospital. $250,000.

Calif., San Francisco—School—City and San Francisco Co. having plans prepared by Weeks & Day, 315 Montgomery St., 2 story, rein.-con., Shotwell St. $400,000 or more.

Que., Donacona—Convent and Chapel—Catholic Church having plans prepared by L. Auger, 39 St. Jean St., Quebec, 3 story, 50 x 80 ft. convent and chapel, incl. recreation hall, dormitory, dispensary, etc. $150,000.

Que., St. Damien—Hospital—Sisters of Perpetual Secours having plans prepared by H. Laberge, Quebec, 3 story, 50 x 100 ft. hospital addition. $150,000.

BIDS DESIRED

Me., Augusta—Hotel—H. J. Tetreault, 45 Middle St., taking bids 6 story, 65 x 255 ft., brick and steel addition. $500,000. Bunker & Savage, Augusta Trust Bldg., archts.

Me., Biddeford—High School—Mar. 12, by City, 3 story and basement, 70 x 100 ft., and 70 by 112 ft., brick and steel, plain foundation. $400,000. Krokyn & Brown, 220 Devonshire St., Boston, Mass., archts. Noted Feb. 12.

Me., Brewer — Gymnasium, etc. — H. R. Houston, supt. of Schools, taking bids 2 story and basement, brick and stone gymnasium and assembly hall addition to high school, plain foundation. $170,000. Butterfield & Guertin Co., 801 Beach St., Manchester, N. H., archts. Noted Nov. 6.

Me., Rumford — Hospital — Community Hospital Assn., taking bids 2 story and basement, 35 x 156 ft., brick and stone hospital. $150,000. Rogers & Dion, 42 Berkley St., Boston, archts.

Me., Rumford—Nurses' Home, etc.—Community Hospital, c/o E. W. McCathey, taking bids brick and stone nurses' home, incl. power house. $150,000. Rogers & Dion, 142 Berkeley St., Boston, Mass., archts. Noted Dec. 4.

Mass., Boston—Garage—Kudish & Kager, 521 Seaver St., Roxbury taking bids 1 story, 125 x 300 ft., rein.-con., and brick, 1246 Massachusetts Ave., here. $200,000. A. Rotsentein, 229 Devonshire St., archt. Noted Feb. 26.

Mass., Boston — Office and Store — A. Krey, c/o W. J. Freethy, archt., 210 State St., taking bids 6 story and basement, 65 x 70 ft., rein.-con., and cast stone, plain foundation, 265-273 Washington St. $175,000.

Mass., Boston—Store and Office—Byrant Real Estate Trust, c/o F. A. and F. M. Kendall, archts., 45 Broomfield St., taking bids 5 story and basement, brick and cast stone, 85-91 Court St. $150,000. Noted Feb. 19.

Mass., Boston—Store and Office—A. F. Goodwin, c/o Little & Russell, archts., 45 Bronfield St., had revised plans prepared and taking bids remodeling and constructing 6 story and basement, brick and stone, 154-156 Boylston St. $150,000. Noted Jan. 29.

Mass., New Bedford—High School—Mar. 25, by City, Municipal Bldg., 3 story and basement, 160 x 225 ft., brick and limestone, Court and County Sts. $1,000,000. Bown & Poole, 688 Pleasant St., archts. Noted Jan. 22.

Mass., Newton (branch of Boston) — School — Mary Immaculate of Lourdes Roman Catholic Church, D. H. Donovan, pastor, Eliot St., taking bids 2 story and basement, brick and stucco, Eliot St. $150,000. Noted Feb. 19.

Mass., Roxbury (Boston P. O.) — Mercantile— M. M. Kalman, archts., Old South Bldg., Boston, taking bids 3 story and basement, brick and stone, Washington St., here. $150,000. Owners name withheld. E. C. Woodman Co., 2235 Washington St., lessee. Noted Feb. 26.

Mass., Springfield—Station—Boston & Albany R.R., South Station, Boston, taking bids 1 story, 121 x 302 ft., brick and stone, station, here. Fellheimer & Wagner, 7 East 42nd St., New York City, archt. F. W. Freeman, ch. engr. Noted Feb. 12.

Mass., Swampscott — School — Town Bd. Selectmen, taking bids 2 story and basement, brick and stone, Redington St. $150,000. Peare, Quiner, Nevin & Chickering, 6 Beacon St., Boston, archts. Noted Sept. 18.

Mass., Worcester—Church—St. Josephs Roman Catholic Church Society, taking bids 2 story and basement, brick and stone, Hamilton St. $150,000. O. E. Nault, 48 Hamilton St., archt. Noted May. 22.

R. I., Providence—Store and Office—J. Marcus & Co., 184 North Main St., taking bids 3 story and basement, 60 x 80 ft., brick and stone, plain foundation, North Main St. $150,000. W. J. Richards, 7 Exchange St., archt.

R. I., West Warwick—School—Our Lady of Council, Phoenix, taking bids 2 story and basement, brick and stone school, here. $150,000. W. T. Fountaine, 285 Main St., Woonsocket, archt.

Conn., Hamden—Theatre and Stores—C. Schneider, 42 Church St., New Haven, taking bids 1 story, 80 x 140 ft., brick theatre and stone building. $150,000. C. H. Abramowitz, 42 Church St., New Haven, archt.

N. Y., Blasdell—High School—Mar. 14, by Bd. Educ., high school, Madison Ave. $150,000. F. A. Spangenberg, 250 Delaware Ave., Buffalo, archt.

N. Y., Brooklyn—School—Mar. 19, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., constructing P. S. 63, Williams Ave., for Bd. Educ., 500 Park Ave., New York.

N. Y., Buffalo—Office—Schoelkopf, Hutton & Pomeroy, Marine Bank Bldg., taking bids office building, Niagara St. $300,000. Essenwein & Johnson, Ellicott Sq. Bldg., archt.

N. Y., Buffalo—School—Mar. 12, by Bd. Educ., 901 Genesee Bldg., P. S. 75, rein.-con. and brick, Howard St. To exceed $300,000. Bureau Architecture, Court and Franklin Sts., archts.

N. Y., Mechanicsville—High School—Mar. 25, by Bd. Educ., addition to high school. $175,000. Simpson & Rolston, Inc., 622 Essex Bldg., Newark, N. J., archts. and engrs.

N. J., Asbury Park—Store, etc.—Mar. 10, by City Comn., stores and pavilions on beach between Sunset and 6th Aves. $200,000. A. F. Cottrell, and K. M. Towner, Asbury Park, engrs.

N. J., Vineland — Institution — Mar. 17, (extended date) by State Bd. Institution and Agencies, 135 West Hanover St., Trenton, group of buildings, here. $375,000. A. B. Mills, Trenton, state archt. Noted Feb. 19.

Pa., Fernwood—Store and Apartment—F. C. Hoopes, 3rd St. and Baltimore Ave., will build 3 story and basement, 130 x 150 ft., brick and steel, plain foundation, Baltimore Ave. between Church St. and Beverley Rd. Work will be done by separate contracts. $300,000. A. W. Hall, Upper Darby P. O. Bldg., Upper Darby (Phila. P. O.), archt.

Pa., Grove City—Church—J. C. Fulton & Son, archts., Uniontown, taking bids and open same about Mar. 1, 2 story and basement, 100 x 180 ft., stone and brick, Pelton Hall site, for Presbyterian Congregation. $300,000.

Pa., Lewistown—Church—Mar. 12, by Building Com. Grace Evangelical Church, S. E. Koontz, chn., 1 story and basement, 80 x 110 ft., brick, steel, natural and manufactured stone, Logan & Spruce Sts. $150,000.

Pa., Phila.—Professional—Mar. 6, by L. Rothschild, archt., 215 South Broad St., 12 story and basement, 32 x 115 ft., brick and steel, plain foundation, 13th and Locust Sts., for Heyman & Bro., 214 South Broad St. $250,000.

Pa., Phila. — Store — Mar. 9, by G. C. Nimmons & Co., 122 South Michigan Ave., Chicago, 1 story and basement, 27 x 440 ft., 9 story and basement, 120 x 220 ft., and 1 story and basement, 120 x 450 ft., rein.-con. and brick additions, plain foundations, Roosevelt Blvd. Whitaker and Langden Sts., here, for Sears Roebuck Co., Arthington and Homan Sts., Chicago.

Pa., Pittsburgh—Church, School and Parish House—Mar. 6, by C. G. Strong, archt., Keystone Bldg., 1 and 2 story and basement, 114 x 294 ft., stone, Walnut and Shady Sts., for Sacred Heart Roman Catholic Congregation, c/o T. F. Coakley, 5934 Center Ave., pastor. $1,900,000.

Pa., Pittsburgh—Nurses Home—Mar. 11, by Mercy Hospital, Stevenson St., 9 story and basement nurses home. $600,000. E. M. Stotz, Monongahela Bank Bldg., archts.

Md., Baltimore—Nurses Home—Mar. 12, by J. E. Sperry, archt., Calvert Bldg., 10 story, 107 x 142 ft., brick and steel, plain foundation, Bway. between Monument and McElderry Sts., for Johns Hopkins Hospital, Bway. between McElderry and Monument Sts. $650,000.

Md., Cumberland—High School—Mar. 24, by Smith & May, archts., Calvert Bldg., Baltimore, 3 story and basement, 169 x 200 ft., brick and steel, plain foundation, here, for Bd. Educ. Allegheny Co. $450,000. H. Massart, 328 North Charles St., Baltimore, engr.

La., New Orleans—Hotel—Mar. 15, by Weiss & Dreyfous, archts., Maison Blanche Bldg., Jung Hotel, 10 story, concrete, brick, steel and limestone, Canal and Howard Sts., for Messrs. Jung. $1,000,000.

Fla., Sanford — Jail — Mar. 9, by City Comn., for jail. $150,000. E. J. Moughton, Sanford, archt.

Tenn., Nashville — Apartment — R. R. Ogilvie, 4th and 1st Natl. Bank Bldg., will construct 3 story, rein.-con., brick and hollow tile, 25th St. and Kirkland Ave. $150,000. Work will be done by separate contracts.

O., Cleveland—Garage and Office—Motors Realty Co., G. G. G. Packham, pres., c/o Ohio Buick Co., 1903 East 19th St., taking bids 10 story and basement, 135 x 320 ft., brick, steel and concrete, Euclid Ave. and East 24th St. $1,000,000. W. S. Ferguson Co., 1900 Euclid Bldg., archts.

Mich., Detroit—College—D. A. Bohlen & Son, archts., 1001 Majestic Bldg., Indianapolis, Ind., taking bids 3 story and basement ,rein.-con., brick and stone, plain foundation, Wyoming Ave., here, for Immaculate Heart of Mary, 1219 Washington Blvd. $300,000.

Mich., Lansing—Office—Mar. 10, by R. K. Orr, pres. Wolverine Insurance Co., 7 story and basement, 52 x 96 ft., rein.-con., brick and steel, plain foundation, Capitol Ave. E. A. Bowd, Lansing, archt.

Mich., Port Huron—High School—Mar. 9, by R. R. Kemp, secy. Bd. Educ., 2 story and basement, rein.-con., brick and steel addition, plain foundation. $175,000. W. H. Wyeth, Port Huron, archt.

Wis., Fond du Lac—School—Mar. 10, by St. Peters Congregation, c/o A. Egelhoff, 87 Main St., 2 story and basement, 80 x 105 ft., brick, tile and concrete, plain foundation. $150,000. F. J. Stepnoski, Forest Ave., archt. Noted Jan. 29.

Wis., Milwaukee — Mausoleum — Valhalla Cemetery Co., 114 Grand Ave., taking bids 1 story and basement, 52 x 150 ft., rein.-con., stone and marble, plain foundation, Valhalla Cemetery. $175,000. G. H. Leipold, 160 Martin St., archt.

Wis., Milwaukee—Store—Barkhausen & Logemann, archts., 79 Wisconsin St., taking bids 100 x 200 ft., brick and steel top addition, Sycamore St., for Boston Store, 319 Grand Ave. $150,000. Noted Feb. 26.

Wis., Racine — School — Mar. 12, by Bd. Educ., c/o A. H. Schafer, secy., 2 story and basement, brick, tile and concrete addition to Knapp School, plain foundation.

Buildings—Commercial (Continued)

$150,000. J. M. Matson, Baker Blk., engr. Noted Nov. 27.

Ia., Davenport — Office — Mar. 16, by Temple & Burrows, archts., 208 Main St., 3 story and basement, 76 x 139 ft., rein.-con. and steel, for Bettendorf Co. Bettendorf. $175,000.

Ia., Iowa City — Medical Laboratory — Mar. 17, by W. H. Gemmill, secy. State Bd. Educ. 4 story, 222 x 316 ft. rein.-con., brick and stone addition. Proudfoot, Rawson & Souers, 810 Hubbell Bldg., Des Moines, archts. Noted Jan. 29.

Kan., Hiawatha — Court House, etc. — Mar. 19, by Clerk Brown Co., 3 story, 88 x 104 ft. court house and 32 x 58 ft. jail, both rein.-con. and stone. $350,000. W. E. Hulse & Co., Stamey Hotel Bldg., Hutchinson, archts. Noted Feb. 5.

Mo., Carthage—Administration—Mar. 12, by Bonsock & Pearce, archts., Republic Bldg., St. Louis, and P. K. Simpson, archt., Carthage, 3 story, 60 x 250 ft., stone administration building, for Ozark Wesleyan College. $250,000. Noted Jan. 29.

Mo., Hannibal—High School—Mar. 17, by Secretary Bd. Educ., Central High School, 2 story and basement, 110 x 195 ft., rein.-con., brick and stone. W. B. Ittner, 911 Locust St., St. Louis, archt. Noted Jan. 29.

Mo., Springfield—College—Mar. 11, by Drury College, 2 story and basement, concrete and native stone, music hall, girls' dormitory and library. $215,000. Farrand & Fitch, Washington University, St. Louis, archts. Hawkins & Abbitt, Springfield, consult. archts. Noted Dec. 4.

Neb., Lincoln—School—Mar. 18, by Bldg. Bd. Educ., J. G. Ludlow, secy., 2 story and basement, 65 x 250 ft., rein.-con. school. $200,000. Davis & Wilson, 525 South 13th St., archts. Noted Jan. 15.

Colo., Ft. Morgan—High School—Mar. 12, by Secretary School Bd., 3 story, 200 x 300 ft., concrete, brick and terra cotta high school. $250,000. W. N. Bowman, Central Savings Bank Bldg., Denver, archt.

Calif., Alhambra — Church, etc. — C. F. Skillington, archt., Bradbury Bldg., Los Angeles, taking bids 50 x 100 ft. Sunday school building, 65 x 140 ft. educational building, and 65 x 70 ft. pastor's study, etc., all brick, here, for First Methodist Episcopal church. Noted July 10.

Calif., Los Angeles—Hotel—R. W. Fiske, 1004 Great Republic Bldg., taking bids 5 story, 50 x 155 ft., brick, Leeward Ave.

Calif., Los Angeles — Store and Loft — Curlett & Beelman, archts., Union Bank Bldg., taking bids 8 story and basement, 60 x 150 ft., rein.-con., Hill St. between 6th and 7th Sts., for Harris & Frank, 443 South Spring St. Noted Dec. 25.

Calif., Los Angeles—Theatre, Store and Office—L. A. Smith, archt., Lily-Fletcher Bldg., taking bids 2 story, 155 x 195 ft., brick and rein.-con., 10th St. and Western Ave., for West Coast Theatres, Inc., Knickerbocker Bldg.

Calif., Oakland — Theatre — Reid Bros., archts., 105 Montgomery St., San Francisco, taking bids 2 story, Class "A," 2,500 seating capacity, Grand, Lakeside and Walker Aves., here, for A. C. Karski & L. Kaliski, c/o architects. $240,000. Noted Nov. 27.

Calif., Orange—Lodge and Store—Allison & Allison, archts., Hibernian Bldg., Los Angeles, taking bids 3 story and basement, 85 x 125 ft., rein.-con. and brick lodge and store, here, for Odd Fellows' Lodge of Orange. Noted Oct. 28.

Que., Thetford Mines—Convent—Mar. 6, by Bergeron & Lemay, archts., Quebec, 4 story, 75 x 110 ft. convent, here, for Sisters of Charity, Quebec. $200,000.

BIDS RECEIVED

N. H., Berlin—High School—City, general contract 2 story and basement, 50 x 160 ft., brick and cast stone, plain foundation, from Rowe Constr. Co., 560 Main St., Woodsville, $184,977; heating, from T. A. Ridders & Co., 304 Dover St., Boston, Mass., $29,450. Noted Feb. 19.

R. I., Providence — High School — Public Building Comn., City Hall, Commercial High School, 2 story and basement, brick and stone, from E. Turgeon, 86 Weybossett St., Providence, $172,415. Noted Jan. 1.

Pa., Pittsburgh—High School—Bd. Educ., Fulton Bldg., Feb. 19, 3 story and basement, brick on hollow tile addition, to Perry High School, Perrysville Ave., from Williams & Haas, Magee Bldg., $221,876.

Mich., Detroit—School—C. A. Gadd, bus. mgr. Bd. Educ., 1354 Bway., 2 story and basement, rein.-con., brick and steel, from F. N. Cooper, 6370 Gratiot Ave. $558,885; heating equipment, from J. W. Partlan, 1255 Park Pl., $169,580. Noted Feb. 5.

Okla., Muskogee—Temple—Brassham & Howenstine, archts., 701 Barnes Bldg., Feb. 14, 2 story and basement, 120 x 132 ft., concrete brick and stone, 6th and Boston Sts., from Dougherty & Nichols Constr. Co., 416 Equity Bldg., for Masonic Building Assn., W. G. Gibbons, chn., 200 Bedouin Temple. $202,785. Noted Oct. 23.

Calif., Pasadena — School — Bd. Educ., general contract Washington Junior High School, 2 story, brick, from W. T. Loesch, 110 North Euclid Ave., $137,500. Noted Feb. 12.

CONTRACTS AWARDED

N. H., Keene—Bank—Cheshire Co. Savings Bank, Central Sq., altering and constructing 2 story and basement, brick and cast stone addition, Central Sq., to S. Belanger & Sons, 308 Main St., Nashua. Archts. est. $150,000.

Mass., Allston (Boston P. O.)—Garage—Seavey Realty Trust, c/o J. S. McLean, 160 Allston St., 2 story, 120 x 180 ft., rein.-con., brick and steel, 7-15 Scottfield St., to Pultz Inc., 173 Milk St., Boston. Archts. est. $150,000. Noted Feb. 5.

Mass., Boston—Apartment—M. Abrams, 115 Audubon Rd., will build 5 story and basement, brick and stone, plain foundation, Audubon Rd., by day labor. $200,000. Silverman, Brown & Heenan, 51 Cornhill St., Boston, archts. Noted Feb. 19.

Mass., Boston — Garage — Chamberlin Garage, Inc., 110 Tremont St., 5 story, 18,000 sq.ft. floor space, rein.-con., brick and steel, 16 Stoneholm St. to Scully Co., 118 1st St., Cambridge. Archts. est. to exceed $150,000. Noted Jan. 29.

Mass., Boston — Mercantile — Chamberlin & Co., Inc., 28 Blackstone St., altering and constructing 4 story and basement, brick addition, 28-32 Blackstone St., to J. Bowen Co., 184 Dudley St., Roxbury. Archts. est. $150,000.

Mass., Boston—Store—Kakas Bros., Inc., 72 Chauncy St., remodeling 4 story and basement, brick store building, to Sawyer Constr. Co., 16 Arlington St. Archts. est. $150,000. Noted Jan. 22.

Mass., Brighton (Boston P. O.)—Apartment — Rosen & Levine, Marshall St., Brookline, will build 5 story and basement, rein.-con., brick and limestone, 1998 Commonwealth Ave., here, by day labor. $160,000. S. S. Eisenberg, 46 Cornhill St., Boston, archt.

Mass., Dorchester (Boston P. O.)—Apartment—Green & Shapiro, 90 Columbia Rd., will build 3 story and basement, rein.-con. and brick, 90-94 Columbia Rd., by day labor. $150,000. Private plans.

Mass., Framingham—Convent—Sisters of St. Joseph, 3 story and basement, brick, Apple St., to J. and W. Muldoon, 80 Oakview Terrace, Jamaica Plain. Archts. est. $150,000. Noted Feb. 19.

Mass., Medford — Apartment — Carter Bros. Realty Trust., 330 Somerville Ave., Somerville, will build 3 story and basement, brick and timber, Fountain St., here, by day labor. $200,000. Private plans.

Mass., Nantucket—Bank—Pacific Natl. Bank, 1 story and basement, rein.-con., brick and stone, to Sawyer Constr. Co., 18 Arlington St., Boston. Archts. est. $150,000 or more.

Mass., New Bedford — Garage — F. J. Greene, c/o J. L. LaBrode, archt., 502 Olympia Bldg., 2 story, 120 x 140 ft., brick and steel, plain foundation, Elm St., to Locke & Thomas, Inc., 504 Olympia Bldg. Archts. est. $150,000. Noted Jan. 15.

Mass., Salem—Exchange—New England Telephone & Telegraph Co., 50 Oliver St., Boston, 3 story and basement, 65 x 100 ft., brick addition, here, to E. H. Porter Co., 13 Wales St., Peabody.

Mass., Somerville — Apartment — A. M. Shery, c/o S. E. Moffle, archt., 51 Cornhill St., Boston, will build 3 story and basement, 40 x 50 ft., rein.-con., Bway., by day labor. $300,000. Noted Feb. 19.

Mass., South Boston (Boston P. O.)—Nurses' Home—Carney Hospital, 5 story and basement, 42 x 122 ft., rein.-con., brick and stone addition, Old Harbor St. and Thomas Park, to C. Logue Building Co., 18 Tremont St., Boston. Archts. est. $250,000. Noted Jan. 15.

R. I., Providence—Business—Exchange Realty Co., 32 Westminster St., 5 story and basement, 80 x 90 ft., brick and steel, to E. Turgeon, 86 Weybosset St. Archts. est. $150,000.

R. I., Providence—Garage—R. Williams Realty Co., Providence, and 50 East 42nd St., New York City, 6 story, 26,000 sq.ft. floor space, brick and steel, Fountaine St., to W. Haefeli, Grand Central Terminal, New York City. Archts. est. $800,000. W. S. Achorn, Rhode Island Motor Mart, lessee.

R. I., Providence — Garage — Promenade Realty Co., 524 Westminster St., 2 story, 130 x 160 ft., rein.-con. and brick, Westminster St., to E. Radding Constr. Co., 114 Westminster St. Archts. est. $200,000.

Conn., Waterbury—School—St. Josephs Roman Catholic Church, 2 story and basement, 70 x 130 ft., brick and stone, John St., to Lariviere & Highland, 280 Main St. Archts. est. $150,000. Noted Feb. 5.

N. Y., New York—Apartment—H. R. Building Corp., c/o H. I. Feldman, archt. and engr., 516 5th Ave., will build 6 story, brick, steel and stone, plain foundation, Burnside Ave., by day labor. $350,000.

N. Y., New York—Apartment—Grand Terrace Constr. Co., c/o C. S. Clark, archt. and engr., 501 East Tremont Ave., will build 6 story, brick, steel and stone, plain foundation, Tremont Ave., by day labor. $150,000.

N. Y., New York — Apartment — S. P. Rosenberg, c/o C. S. Clark, archt. and engr., 441 East Tremont Ave., will build 6 story, brick, steel and stone, plain foundation, Southern Blvd., by day labor. $300,000.

Pa., Bethlehem—Home—Bethlehem Temple Assn., 3 story and basement, 90 x 124 ft., brick and steel addition, plain foundation, to H. E. Stoudt, Bethlehem. Archts. est. $175,000.

Pa., Phila. — Loft — Fretz Realty Co., 10th and Diamond Sts., 8 story and basement, 80 x 100 ft., rein.-con. and brick, plain foundation, to W. Steele & Son, 219 North Broad St.

Pa., Phila.—Store and Office—Seventeenth and Walnut St. Corp., c/o L. B. Rothschild, archt., 215 South Broad St., 12 story and basement, brick and steel, plain foundation, to J. E. Dever, Ridley Park. Archts. est. $500,000.

Md., Baltimore — Office and Store — I. Silberstein, 402 St. Paul St., will build 2 story and basement, 109 x 116 ft., brick, plain foundation, Baltimore and Lloyd Sts., by day labor. $150,000. E. H. C. Browne, 402 St. Paul Bldg., archt.

Md., Baltimore—Police—Bd. Awards, 5 story and basement, 160 x 237 ft., brick and steel, plain foundation, Lexington and Fallsway Sts., to Sinclair & Grigg, Medical Arts Bldg., Phila., Pa., $933,100. Noted Feb. 26.

Va., Blacksburg — Memorial — Virginia Polytechnic Institute, Blacksburg, 3 story and tower, Goethic architecture, native limestone, to J. L. Crouse, Greensboro, N. C., $285,892.

O., Cincinnati — Church — Bethlehem Methodist Episcopal Church, Fairfax Ave., 2 story and basement, 150 x 200 ft., rein.-con., brick and stone, plain foundation, Woodburn Ave., to Roos-Meyer & Hecht, Clifton Ave., $145,000. Archts. est. $150,000. Noted Dec. 25.

O., Cleveland—Police Station—City, W. R. Hopkins, city mgr., 4 story, 79 x 101 x 149 x 229 ft., brick, steel and concrete, Payne Ave., to G. A. Rutherford, 2725 Prospect Ave. Noted Dec. 25.

O., Cleveland—Schools—Walker & Weeks, archts., 1900 Euclid Bldg., 72 x 240 ft. academic building, 70 x 190 ft. dormitory, 40 x 120 ft. rectory and dining hall, 50 x 90 ft. service building, all brick and steel, also swimming pool and recreation field, North Woodland and Warrensville Center Rds., to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg., for University School, Hough Ave. and East 71st St. Archts. est. $1,000,000.

O., Cleveland—Store and Office—Lorain Medical Building Co., c/o W. R. Powell, archt., 705 Rose Bldg., 3 story and basement, 55 x 110 x 155 ft., brick and steel, West 115th St. and Lorain Ave., to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $150,000. Noted Jan. 15.

Mich., Albion—Gymnasium—Albion College, 1 and 2 story, 140 x 142 ft., brick and tile, plain foundation, to Schumaker Constr. Co., 218 Michigan Ave. Archts. est. $175,000. Noted Jan. 22.

Ill., Belleville—Bank—First Natl. Bank, Public Square, altering and remodeling 4 story and basement, bank building, to St. Louis Bank Building Co., 811 Walnut St., St. Louis, Mo., Archts. est. $150,000.

Ill., Centralia — Bank and Office — Old Natl. Bank, 2 story and basement, 60 x 100 ft., rein.-con., brick and stone, Bway. and Locust Sts., to St. Louis Bank Building Co., 811 Walnut St., St. Louis, Mo. Archts. est. $150,000.

Wis., Fond du Lac—High Schools—Bd. Educ., c/o J. Hohensee, secy., 2 story and basement, brick, tile and concrete addition, to Roosevelt Junior High School, to Hutter Constr. Co., 128 Western Ave., and addition to Fond du Lac Senior High School, to Immel Constr. Co., Dana Bldg. Archts. est. $200,000 each. Noted Feb. 19.

Wis., Milwaukee—Store and Office—A. S. Alschuler, archt., 28 East Jackson Blvd., Chicago, Ill., 8 story and basement, 125 x 150 ft., brick and concrete, Wells St., to T. Stark & Co., 130 Muskegon Ave., for English Woolen Mills, 222 3rd St. Archts. est. $750,000. Noted Feb. 12.

Minn., Faribault — School — St. Marys Hall, general contract 2 story and basement, rein.-con., brick and stone school, to J. B. Nelson, Constr. Co., Mankato. Archts. total est. $200,000. Noted Feb. 12.

Buildings—Commercial (Continued)

Mo., Jefferson City — High School — Bd. Educ., general contract 3 story, 115 x 190 ft. high school, to G. Walker, Salina, Kan., $210,317; heating, to Eichler Heating Co., Railway Exch. Bldg., St. Louis, $34,257. Noted Feb. 5.

Mo., Kansas City—Apartment—J. N. McConnell, 1600 Grand Ave., 8 story and basement, 60 x 150 ft., brick, stone, steel and rein.-con., Bway. and 36th St., to Collins Bros., 1600 Grand Ave. Archts. est. $500,000.

Mo., Kansas City — Apartment — D. E. Long, 616 Chambers Bldg., 4 story and basement, brick and rein.-con. Baltimore St. near 36th St., to R. D. Shore, 3542 Main St. Archts. est. $300,000.

Mo., Kansas City — Apartment — Fisher Building Co., 618 Commerce Bldg., 8 story and basement, 48 x 132 ft., rein.-con., brick and terra cotta, Locust St., to Patti-Moore Constr. Co., 411 Jenkins Bldg. Archts. est. $500,000.

Mo., Kansas City—Apartment—Syndicate c/o V. J. De Foe, archt., 1704 Baltimore St., 7 story and basement, 75 x 130 ft., rein.-con., brick stone and terra cotta to J. W. McCallum Constr. Co., 313 East 12th St. Archts. est. $250,000.

Mo., Kansas City — Exchange — Kansas City Telephone Co., Telephone Bldg., general contract 3 story and basement, 115 x 115 ft., L shaped, Walnut and 39th Sts., to Miller-Stauch Constr. Co., 228 Railway Exch. Bldg. Archts. est. $225,000.

Mo., Kansas City—Hotel—V. J. De Foe, archt., 1704 Baltimore Ave., 7 story and basement, 75 x 130 ft., rein.-con., brick, terra cotta and stone, to Callum Constr. Co., 313 West 12th St. Archts. est. $250,000. Owner's name withheld.

Mo., Kansas City—Hotel—Fisher Bldg. Co., 618 Commerce Bldg., 8 story and basement, 48 x 132 ft., rein.-con., brick and terra cotta to Patti-Moore Constr. Co., 411 Jenkins Bldg. Archts. est. $500,000.

Mo., St. Louis — Apartment — Anderson Stocke & Buerman Realty Co., 808 Chestnut St., 3 story and basement, 120 x 120 ft., rein.-con., brick and stone, Cabanne St. and Hamilton Ave., to V. A. Chinberg, 808 Chestnut St. Archts. est. $150,000. Noted Feb. 19.

Mo., St. Louis — Bank and Office-Boatmens Bank Building, c/o J. M. Robertson, 314 North Bway., altering, remodeling and enlarging bank and office building, Olive and Bway. Sts., to St. Louis Bank Building Co., 811 Walnut St. Archts. est. $200,000.

Mo., St. Louis — Hotel — S. G. Lewis Realty Co., 4885 Natural Bridge Ave., will build 4 story and basement, 45 x 146 ft., brick, concrete and stone, 4923-27 Natural Bridge Ave., by day labor, under supervision of J. T. Craven Eng. Co., Century Bldg., engrs. and archts.

Ark., Little Rock—Store—J. D. Back & Bro., 410 Main St., 4 story and basement, 50 x 140 ft., rein.-con., brick, steel and stone, 5th and Main Sts., to Ault & Burden, 117 West 2nd St., Little Rock. Noted Jan. 22.

Tex., Houston—Hotel—N. D. Naman, 10 story and basement and 1 story annex, 75 x 100 ft., rein.-con., brick, steel and stone, plain and concrete pile foundation, Texas Ave. and La Branch St., to Tellepsen Constr. Co., 2112 Main St., $500,000.

Okla., Oklahoma City—Apartment—A. C. Kreipke, Herskowaitz Bldg., 8 story and basement, rein.-con., brick and stone apartment, incl. 1 story brick and concrete garage, 13th and Shartel Sts., to Kreipke-Schaefer Constr. Co., Herskowitz Bldg. Archts. est. $700,000. Noted Nov. 27.

Wash., Seattle—Apartment—J. S. Hudson, Empire Bldg., will build 4 story and basement, 60 x 120 ft. apartment, Borsh Ave., by day labor. $192,000. W. G. Mann, 1816 Ravenna Blvd., archt. Noted Jan. 15.

Wash., Seattle — Apartment — E. J. Rounds, Walker Bldg., will build 3 story and basement, 120 x 120 ft., masonry, 845 Bellevue Pl., by day labor. $180,000. Stuart & Wheatley, Walker Bldg., archts.

Calif., Huntington Park—Theatre, Store and Apartment—West Coast Theatres, Inc., 643 South Olive St., Los Angeles, 2 story and basement, rein.-con., Pacific Blvd., to Reed & Ritchie, 163 South Pacific Blvd. $165,300. Noted Jan. 29.

Calif., Long Beach—Schools—Bd. Educ., for general contract Frances E. Willard School, 11th St. between Origaba and Freeman Sts., to C. T. McGrew & Son, 1345 West Ocean Ave., $238,550; also brick high school, to J. D. Sherer & Son, 1865 East Anaheim St., $181,285.

Calif., Lomita (Los Angeles P. O.)—High School—Los Angeles Bd. Educ., general contract Narbonne High School, 3 story, 70 x 257 ft. administration and classroom building, 1 story, 32 x 84 ft. each manual arts and domestic science buildings, 1 story, 70 x 120 ft. auditorium, two story locker and shower room buildings, all rein.-con. and brick, Pomelo St., here, to A. Johnson, 1007 South Grand Ave., Los Angeles, $245,370. Noted Feb. 19.

Calif., Los Angeles—Apartment—E. C. English, 508 Citizens Natl. Bank Bldg., will build 6 story and basement, 150 x 225 ft., rein.-con., 4th St. and Normandie Ave., by day labor. E. G. Martin, Citizens Natl. Bldg., archt.

Calif., Los Angeles — Hotel — T. C. Hughes, 4561 North Griffin Ave., 5 story and basement, 85 x 235 ft., rein.-con. and steel, Columbia Ave., to F. W. Riley, 1226 Georgia St., to exceed $150,000.

Calif., Los Angeles — Synagogue — Sinai Synagogue, 1501 West 12th St., general contract 3 story and basement, 120 x 150 ft., rein.-con., plain foundation, 4th St. and New Hampshire Ave., to Lewis Constr. Co., Los Angeles., $350,000. Noted Feb. 19.

Calif., Oakland—Apartment and Store—Turlock Produce Co., East 12th St. and 3rd Ave., 3 story, brick and concrete, East 12th St. and 3rd Ave., to Barrett & Hilp, 918 Harrison St., San Francisco, $152,300.

Calif., San Jose—Exchange—Pacific Telephone & Telegraph Co., 333 Grant Ave., San Francisco, general contract for brick and concrete addition, Market St., to Morrison Bros. Constr. Co., Santa Clara, approximately $152,900. Noted Dec. 4.

Calif., San Pedro — Hotel — L. A. Guetzhow, 746 McArthur St., will build 4 story and basement, brick, plain foundation, 276 West 4th St., by day labor. $180,000. G. Bailey, 410 Hillstreet Bldg., Los Angeles, archt.

Ont., Collingwood—Collegiate—Bd. Educ., 2 story, 90 x 175 ft., brick, Hurontario St., to G. H. Thomas & Son, Dickson St., Galt. Archts. est. $150,000. Noted Jan. 15.

Que., Roberval—School—Urseline Sisters, 4 story, 86 x 163 ft., normal school, to C. A. Page, Chicoutimi, $150,000. Noted Jan. 15.

Federal Government Work

PROPOSED WORK

Mass., South Boston — Capstans — Spec. 5060—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids removing 6 hand capstans and concrete foundations and installing 4 capstan pits, etc., here.

Va., Norfolk—Alterations—Spec. 5074—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans alterations to Building 36, at Naval Hospital, here.

Nevada—Roads—U. S. Bureau Pub. Rds., 9 Main St., San Francisco, Calif., plans grading 1 mi. and crushed rock surfacing 18 mi. Lincoln Highway, west of Austin; also grading and surfacing 4 mi. Lincoln Highway east of Austin, both Lander Co. C. H. Sweetser, dist. engr.

California—Roads—U. S. Bureau Pub. Wks., 9 Main St., San Francisco, plans grading and graveling 5 mi. Swartout Canyon between Cajon Pass and Los Angeles Co. line, San Bernardino Co.; grading and rock surfacing 4.5 mi. Yuba Pass Rd. between Sierra City and Gold Lake Junction, Sierra Co., 5 mi. highway along Truckee River north of Tahoe City, Placer City, Placer Co.; crushed rock surfacing 8 mi. Auburn-Truckee Rd. from Soda Springs to Donner Lake, Nevada and Placer Counties. C. H. Sweetser, dist. engr.

Cuba, Guantanamo Bay — Steel Water Tank—Spec. 5006—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans steel water tank, here.

P. I., Cavite—Radio Tower—Spec. 5057—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids Feb. 18, radio tower, here. Noted Feb. 26.

BIDS DESIRED

Del., Wilmington—Bridges—Mar. 20, by U. S. Engineer Office, War Dept., Wash., D. C., 2 highway bridges over Chesapeake and Delaware Canal, here. Noted Dec. 4.

D. C., Wash.—Water Piping—Spec. 5078—Mar. 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., renewal of water piping at Medical School, Naval Hospital.

Va., Quantico—Wearing Surface—Spec. 5086—Mar. 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., bituminous wearing surface at Marine Barracks Fying Field, here.

Ky., Louisville—Sheet Piling—Mar. 31, by U. S. Engineer Office, P. O. Box 72, steel sheet piling; adv. E. N.-R. Mar. 5.

Ky., Louisville—Steel—Mar. 20, by U. S. Engineer, P. O. Box 72, structural steel, casting, etc. for Lock 52, Ohio River.

Neb., Mitchell — Reclamation Work — Mar. 10, by U. S. Bureau Reclamation, 23,400 cu.yd. excav., 355,000 yd. sluiced embankment, 25,000 cu.yd. concrete, 1,400,000 lb. reinforcing and installing 170,000 lb. metal work. A. Weiss, Mitchell, engr.

Tex., Galveston—Dredging—Apr. 4, by U. S. Engineer Office, dredging Sabine Neches Waterway; adv. E. N.-R. Mar. 5.

Calif., San Francisco—Extension—Spec. 5075—Mar. 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to storehouse, here.

BIDS RECEIVED

Md., Baltimore—Dredging—U. S. Engineer Office, Wash., D. C., 1,750,000 cu.yd. removal from cut-off channel and cut-off Craighill angle sections of Baltimore ship channels, here, from Arundel Corp., Pier 2, Pratt St., $0.1139 per yd. Noted Jan. 22.

Md., Baltimore—Repairs—Treas. Dept. at office Supervising Archt., Wash., D. C., repairing, reroofing, etc. at Immigration Sta., from J. T. Hazzard, Baltimore, $26,675. Mechanical equipment from Kerwan Eng. Co., Baltimore, $4,700, add $2,300, add $850. Noted Feb. 12.

Kan., Ft. Leavenworth — Bridge — H. F. Stone, atty. genl. U. S. Dept. Justice, Wash., D. C., reconstructing bridge over Missouri River between Federal Prison and U. S. Military Reservation, here, from Wisconsin & Iron Wks., North Milwaukee, Wis., $97,877. Noted Feb. 5.

CONTRACTS AWARDED

D. C., Wash.—Garage—Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story garage for fuel yards, here, to Virginia Eng. Co., Newport News, Va., $144,000. Noted Feb. 26.

Ala., Florence—Roofing—U. S. Engineer Office, Florence, roofing power house, at Wilson Dam, to Hinkle Bros. Co., 2431 1st Ave., Birmingham, $17,644. Noted Jan. 29.

Ill., Great Lakes—Water Intake—Spec. 5044—Bureau Yards & Docks, Navy Dept., Wash., D. C., water intake extension to G. A. Green, 1000 South Jackson St., Green Bay, Wis., $62,250. Noted Feb. 26.

Wash., Keyport—Extension—Spec. 5040—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to Torpedo Storehouse, here, to C. H. Schaar, 721 21st Ave., Seattle, $40,224 (180 days). Noted Feb. 26.

Calif., Mare Island—Alterations—Spec. 5034—Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to Building M-34, at Marine Barracks, here, to J. P. Fletcher, Crockett, $3,648 (75 days). Noted Feb. 5.

Unclassified

PROPOSED WORK

Golf Course etc.—West Roxbury (Boston P. O.)—Mass.—Weld Golf Course Trust, Inc., c/o Bonnelli-Adams Co., 110 State St., Boston, plans 18 hole golf course and locker building on 131 acre tract at Weld, Church and South Sts., here. $350,000. Engineer and architect not selected.

Transmission Line — Maryland—Consolidated Pub. Utilities Co., Westminister, plans power transmission line, in Carroll Co.

Transmission Line — Maryland — Pub. Serv. Co., Munsey Bldg., Baltimore, subsidiary of Hanover Power & Light Co., Hanover, Pa., plans transmission line from Pennsylvania border to Union Bridge. Private plans.

Outside Transformer Station—Spartanburg, S. C.—Broad River Power Co., Columbia, plans 10,000 kva. transformer station fed from two 114,000 volt lines, stepping down to 33,000 and 13,200 volts. $200,000. Private plans.

Recreation and Athletic Fields — Avon Park, Fla.—See "Streets and Roads."

Police and Fire Alarm System—Mobile, Ala.—Mar. 31, by H. T. Hartwell, mayor, City Hall, fire alarm system and extension to police signal system; adv. E. N.-R. Mar. 5.

Car Barns—Detroit, Mich.—Dept. Street Rys., St. Jean and Shoemaker Aves., having preliminary plans prepared 1 story car barn, rein.-con., brick and steel, plain foundation, Davison Ave. $100,000.

Stadium—Madison, Wis.—City, c/o H. C. Buser, city clk., plans rein.-con. memorial stadium on Breese Stevens Athletic Field. $50,000. Engineer not selected.

Gas Mains—Two Rivers, Wis.—Wisconsin Fuel & Light Co., Manitowoc, plans approximately 7 mi. gas mains, gas holder, here, and enlarging plant in Manitowoc. Private plans.

Conduits—Kansas City, Mo.—Kansas City Power & Light Co., 14th and Grand Sts., making plans replacing overhead feeder lines with underground conduits. $250,000. Private plans.

Amphitheatre, etc.—University City, Mo.—Flint Garrison et al, 1627 Locust St., St. Louis, taking bids amphitheatre, 3,000 seating capacity, concrete and earth, Olive Rd. at Creve Coeur Lake car tracks. $100,000.

Unclassified (Continued)

J. C. Stephens, Chemical Bldg., St. Louis, engr. Noted Feb. 19.

Subways—Houston, Tex.—Election Apr. 13, $250,000 bonds (citys portion of cost) subways under Southern Pacific Ry. Co.'s tracks on Heights Blvd. and on Houston Ave. J. C. McVey, city engr.

Elevator — Plainview, Tex. — S. G. Cox, soon takes bids 30,000 bu. elevator. Engineer and architect not announced.

Distribution Lines, etc.—Oregon—Pacific Telephone & Telegraph Co., 352 Oak St., Portland, plans to expend $3,000,000 for extensions and improvements to lines and offices, incl. rebuilding distribution line from California line to Seattle, Wash., and new distribution line from Portland to Tallamook and from Eugene to Klamath Falls, also improvements in principal cities of Oregon during 1925. Address E. C. Hickman, c/o owner, div. supt.

Dike—California—Cities of Oakand and Alameda plan dike in Brooklyn basin. $30,000.

Sub-Station Transformers, etc.—California—See "Buildings—Industrial."

Ornamental Street Lighting System — Colton, Calif.—Plans concrete standards in La Cadena Ave. and portions of other streets. $25,000 or more. O. Phillips, city clk.

Storage Wharf — Oakland, Calif. — City, c/o A. Carter, comr. Pub. Wks., plans approximately 50 x 600 ft. fuel oil storage wharf, at Parr Terminal. $80,000.

Gas Holder — Salinas, Calif. — See "Buildings—Industrial."

Street Lighting System—San Bernardino, Calif. — Plans ornamental street lighting system in portions of 6th and F Sts., etc. $52,550.

Street Lighting System — Santa Rosa, Calif. — Plans street lighting system on various streets. $35,000. P. Green, city engr.

Harbor Improvements — Sorel, Que. — Dept. Pub. Wks., Parliament Bldg., Ottawa, Ont., takes bids in March harbor improvements, here. $75,000.

Power Development—Three Rivers, Que.—United Mfg. Co., Montreal, plans water power development, here. $6,000,000. W. J. Francis & Co., 260 St. James St., Montreal, engrs.

Grain Elevator — Owen Sound, Ont. — Great Lakes Elevator Co. plans grain elevator, steel and cement. $450,000. D. J. Kennedy, 854 2nd Ave., engr.

BIDS DESIRED

Inspection Shed Enclosures—New York, N. Y.—Mar. 13, by Bd. Transportation, 49 Lafayette St., inspection shed enclosures at Westchester Ave. and 239th St. Yards. J. H. Delaney, chn.

Tunnel—New York, N. Y.—May 8, by Bd. Estimate & Apportionment, Room 16, City Hall, constructing Parts 1, 2, 3 and 4, New York, Bay Sect. of Narrows Tunnel etc. in Brooklyn and Richmond Boros and under New York Bay, here. J. F. Hylan, mayor, chn.; adv. E. N.-R. Mar. 5.

Subway—Rochester, N. Y.—Mar. 25, at office Bd. Contr. & Supply, 30 City Hall, 3 mi. subway from Oak St. to Mr. Read Blvd., Contr. 3. J. H. Stephenson, secy.; adv. E. N.-R. Mar. 5.

Sanitary Work — Rome, N. Y. — See "Sewers."

Heating Work—Utica, N. Y.—Mar. 25, by State Hospital Comn., Capitol, Albany, heating work and repairs to heating system, at Utica State Hospital, here; adv. Mar. 5.

Bathhouses, etc.—Asbury Park, N. J.—Mar. 10, by Asbury Park Comn., group of bathhouses and stores along Boardwalk between 7th and 8th Aves. $175,000. A. F. Cottrell and K. M. Towner, Asbury Park, engrs.

Stadium—New Castle, Pa.—Mar. 10, by School Dist. North and East Sts., stadium on Benjamin Franklin Junior High School Athletic Field. Noted Feb. 26. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs.

Culvert — New Orleans, La. — R. M. Murphy, comr. Dept. Finance, taking bids concrete culvert at intersection of Audubon Blvd. and Claiborne Ave. $30,000.

Swimming Pool—Plaquemine, La.—Mar. 11, by Mayor and Bd. Aldermen, 85 ft. rein.-con. swimming pool, 58 ft., and 20 x 68 ft. frame building. Swanson-McGraw, United Fruit Bldg., New Orleans, consult. engrs.

Harbor Improvements — Port Stanley, Ont.—Mar. 23, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, harbor improvements, incl. 700 ft. rubble mound extension to East Breakwater, two 50 ft. rubble mound checkwaters, removing old east pier and widening and deepening entrance channel in harbor, here. $90,000.

BIDS RECEIVED

Station Finish—New York, N. Y.—Bd. Transportation, 49 Lafayette St., Feb. 27, station finish work at 95th St. station, for Rapid Transit R.R., from Suffolk Building Corp., 7 East 42nd St., $128,000.

CONTRACTS AWARDED

Subway — Cumberland, Md. — City and Baltimore & Ohio R.R. 2 Wall St., New York City, excavation, retaining walls, and sewer work for Virginia Ave., subway under railroad tracks, to Vang Constr. Co., Cumberland and Bessemer Bldg., Pittsburgh, $111,400.

Heating — Jefferson City, Mo. — See "Buildings—Commercial."

Street Lighting System — Los Angeles, Calif. — For ornamental street lighting system on 6th St. between Loomis and Vermont Aves., to Newbery Electric Corp., 726 South Olive St., $77,686. Noted Dec. 4.

Tank — Oakland, Calif. — Pan-Amer. Petroleum Corp., foot of 5th Ave., storage tank, 700 tons plate steel, to Steel Tank & Pipe Co., 1100 4th St., Berkeley. Noted Dec. 25 under "Buildings—Industrial."

Material and Equipment

PROPOSED WORK

Loading Crane—St. Francis, Wis.—Janesville Sand & Gravel Co., Janesville, c/o J. R. Jensen, purch. agt., plans to purchase 1 loading crane for branch distributing yard, here.

Pipe—South Dakota—State High Comn., Pierre, taking bids, about 73,310 lin.ft. 15- to 36-in. concrete culvert pipe for 1925 construction.

Pipe — Monrovia, Calif. — City plans to purchase 3,880 lin.ft. standard screw black dipped pipe with recess couplings, 2,580 lin.ft. No. 14 gauge wrapped riveted steel pipe. L. P. Black, city clk.

Grain Handling Equipment—Collingwood, Ont.—Canadian Natl. Rys., Windsor Sta., Montreal, Que., plans increasing capacity of grain handling equipment at grain elevator, here. $30,000. T. T. Irving, c/o Canadian Natl. Ry., New Union Sta., Toronto, engr.

BIDS DESIRED

Sand, Gravel, etc.—Buffalo, N. Y.—Mar. 13, by Comn. Pub. Wks., sand, gravel, broken stone, paving stone curbing, crosswalk stone, top dressing, etc., for macadam roads. C. E. P. Babcock, Municipal Bldg., engr.

Paving Blocks—New York, N. Y.—Mar. 12, by J. E. Bowe, comr. Purchases, Municipal Bldg., granite and creosoted wood paving blocks.

Ties and Timber—New York, N. Y.—Mar. 13, by Bd. Transportation, 49 Lafayette St., ties and timber for constructing Rapid Transit R.R. J. H. Delaney, chn.

Conveyor—Millville, N. J.—Mar. 6, by Bd. City Comrs., City Hall, one portable belt conveyor equipped with gasoline engine, suitable for conveying crushed rock or pebbles from beneath cars on railroad track to wagons or trucks.

Crane — Pittsburgh, Pa. — Richardson & Co., Inc., Oliver Bldg., taking bids 1 locomotive crane.

Conveyor, etc.—Columbus, O.—Excelsior Coal Co., 1166 McKinley Ave., in market for 1 conveyor for coal handling, and 1 loading machine, heavy type. F. M. Teal, genl. mgr.

Steam Shovel, etc.—Columbus, O.—Middle States Constr. Co., 524 East Hudson St., in market for 1 medium sized steam shovel, loading machine and conveying equipment for new yard at Cleveland and Essex Aves. S. O. Rogers, secy.

Bituminous Material, etc. — Lansing, Mich.—Mar. 12, by State Hy. Dept., 2,068,500 gal. bituminous surface treatment material, 131,350 gal. cold patch material, 219,200 gal. joint filler material, 460,765 gal. bituminous macadam (peneration) material, 484,000 gal. light oil for dust palliative, and 12,131 tons calcium chloride.

Street Sweeper — Appleton, Wis. — Mar. 24, by E. L. Williams, city clk., 1 motor driven street sweeper.

Trucks and Power Graders — Oshkosh, Wis.—Mar. 7, by F. C. Steiner, highway comr. Winnebago Co., several 3 to 6 ton trucks with and without batch partitions, also power graders.

Grader—Hastings, Minn.—Mar. 16, by Dakota Co., one 12 ft. blade grader complete, omit back sloper (12 ft. Galion blade grader to be taken in exchange). J. Swan, Hastings, engr.

Traffic Signs—Minneapolis, Minn.—Mar. 11, By F. S. Gram, city purch. agt., 500 traffic signs. N. W. Elsberg, city engr.

Brick—Minneapolis, Minn.—Mar. 12, by F. S. Gram, city purch. agt. 1,040,400 common brick, 497,915 exterior face brick, 294,593 interior face brick, and 15,000 fire brick for filter plant. N. W. Elsberg, city engr.

Road Oil, etc.—St. Paul, Minn.—Mar. 16, by H. W. Austin, city purch. agt., 700,000 gal. road oil for Dept. Pub. Wks.; 200 tons of asphalt and 40 tons of asphaltic filler. C. M. Shepard, city engr.

Conveyor—Dallas, Tex.—Dr. Pepper Co., 401 Main St., taking bids 125 ft. roller gravity conveyor and one right hand 90 deg. curve.

Oil Engine Generator Unit—Perry, Okla.—Mar. 11, by B. R. Lucas, city clk., new 350 hp. Diesel oil engine generator unit with switchboard, power wiring, fuel tanks, cooling tower and starting appliances, etc. $40,000. A. W. Yoce, Perry, engr.

Concrete Mixer—Montreal, Que.—J. E. Laurin, 698 St. Catherine St. W., in market for ½ yd. gasoline driven concrete mixer.

Tractor — Montreal, Que. — Dept. Pub. Wks., Parliament Bldg., Ottawa, Ont., in market for one electric tractor, for use at Bonaventure Sta., here.

BIDS RECEIVED

Asphaltic Cement — Milwaukee, Wis. — Central Bd. Purchases, Feb. 20, 360 tons asphaltic cement, from Mexican Petroleum Corp., 120 Bway., New York City, N. Y., at $28.10 per ton.

Road Oil, etc.—Minneapolis, Minn.—F. S. Gram, city purch. agt., Feb. 16, 2,000,000 gal. road oil, from W. H. Barber Co., 1501 Franklin Ave. S. E., $0.064 per gal. f.o.b. Minneapolis; 11,000 tons trap rock, from Trap Rock Co., Bway. and K Sts., $1.25 per ton for ¼ in., $2.55 per ton for ¼ to ¾ in. and $2 per ton for ¾ to 1½ in.; 5,000,000 vitr. paving brick, from Purlington Paving Brick Co., Galesburg, Ill., $39.95 per M; 20,000 sq.yd. 3½ in. creosoted wood blocks, from Indiana Wood Preserving Co., 111 West Washington St., Chicago, Ill., $2.25 per sq.yd., f.o.b. Minneapolis.

CONTRACTS AWARDED

Asphalt Sand—Brooklyn, N. Y.—J. A. Guider, boro pres., Boro Hall, 10,000 cu.yd. asphalt sand, to Hygrade Builders Supply Co., 6th St. and 2nd Ave., $12,850; 5,000 cu. yd. paving and concrete sand, to T. E. McCormick, 325 Rutland Rd., $5,725. Noted Feb. 19.

Sand Grit, etc. — New York, N. Y. — J. Miller, pres. Manhattan Boro., Municipal Bldg., 2,500 cu.yd. sand grit and 3,000 cu. yd. concrete and paving sand, to Gallagher-Shand Co., 420 East 105th St., $4,125 and $4,500 respectively; 50,000 special 5 in. granite paving blocks, to St. George Granite Co., 90 West St., $7,425; 4,000 cu.yd. coarse aggregate for concrete, to Hygrade Builders Supply Co., 6th St. and 2nd Ave., $8,760; 500 tons asphalt joint filler, to Standard Oil Co., 26 Bway., $12,290; 4,000 tons inorganic dust and 8,000 cu.yd. ¾ in. binder stone, to New York Trap Rock Co., 101 Park Ave. $25,960 and $15,120 respectively; two 5 ton trucks, to Pitts Motors, Inc., $9,920. Noted Feb. 19.

Barges—Pittsburgh, Pa.—J. K. Davison & Bro., Davison St., six 10 x 26 x 135 ft. Hopper type all steel barges, to Dravo Contg. Co., Neville Island, Pittsburgh.

Cement—Baltimore, Md.—Bd. Awards, 10,000 bbl. cement, to Hudson Cement & Supply Co., Westwood and Whitmore Aves., $2.72 per bbl. Noted Feb. 19.

Oil—Dayton, O.—City Comn., 400,000 gal. oil for oiling streets, to J. S. Tobitt, Wyoming, $0.0774 per gal., total $30,960.

Trenching Machine, etc.—Kenosha, Wis.—C. M. Osborn, city mgr., 1 Parsons model 30 trenching machine and 1 Parsons model 20 back filler, to Hunter Mchy. Co., 16th St. Viaduct, Milwaukee. Noted Jan. 8.

Creosoted Wood Blocks, etc. — St. Paul, Minn.—H. W. Austin, city purch. agt., 1,200 sq.yd. 3½ in. creosoted wood blocks, to Republic Creosoting Co., St. Louis Park, $2.94 per sq.yd.; 1,400 sq.yd. sandstone blocks, to Sandstone Quarries Co., 510 Plymouth Bldg., Minneapolis, $3,836; six thousand five hundred 18 and 24 in. square cement sidewalk tile, to St. Paul Cement Stone Co., 889 West Minnehaha St., $1,800. Noted Jan. 29.

Stone Crusher—St. Paul, Minn.—G. J. Ries, aud. Ramsey Co., one stone crusher, to Russell Grader Mfg. Co., 2005 University Ave. S. E., Minneapolis, $2,467. Noted Dec. 4.

Tractor Engine—Lake Andes, S. D.—C. H. Robertson, aud. Charles Mix Co., 1 tractor engine, to Minneapolis Threshing Machine Co., Hopkins, $4,040. Noted Feb. 5.

Diesel Oil Engine—Wellington, Tex.—C. B. Myers, city clk., new 400 hp. diesel oil engine, generator, switchboard, pumps, oil storage and extension to power plant, to Fulton Iron Wks., Praetorian Bldg., Dallas, $44,376. Noted Feb. 5.

CONSTRUCTION NEWS

Engineering News-Record, March 12, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Power Development, Washington, Washington Irrigation & Development Co. plans hydro-electric power project on Columbia River with a $28,000,000 dam.

Ohio, New York, Chicago and St. Louis R.R. plan 60 mi. of double track, grading, yards, passenger and freight stations, $10,000,000.

City Hall, Los Angeles, Calif., city having plans for fireproof city hall prepared, $5,000,000.

East St. Louis, Ill., City and Interurban Water Co., making plans for new river intake to connect with present system, $3,000,000.

Warehouse, Houston, Tex., Missouri, Kansas & Texas Ry. having plans prepared, $3,000,000.

Mill, Ft. Worth, Tex., J. R. Griffin plans 50,000 spindle cotton mill, $2,500,000.

Apartment, Brookline, Mass., Roosevelt Inc., having preliminary plans prepared, $2,000,000.

Office, Houston, Tex., Neils Esperson Estate having plans prepared, $2,000,000.

Bridge, St. Johns, Ore., City of Portland having plans prepared for bridge to exceed $2,000,000.

Bids Wanted On Big Jobs

Pipeline, Texas-Houston Oil Co., Houston, Tex., soon takes bids on steel pipe line with pumping equipment, $7,000,000.

Power Development, Yale, Washington—Northwestern Electric Co., Portland, Ore., takes bids about May 1 on 40,000 hp. plant, $1,500,000. Will spend during 1925, $5,000,000.

Clubhouse, Brooklyn, N. Y., B. P. O. E. 22 soon takes bids, $3,000,000.

Hotel, Chicago, Ill., Stevens Hotel Co., $2,000,000.

Court House, Kansas City, Kan., takes bids about May 1, $1,000,000.

Large Contracts Let During Week

Theater, Store and Office, Philadelphia, Pa., Equitable Realty & Holding Corp. to Lynch Constr. Co., Inc., New York City, $6,000,000.

Hospital, Kings Park, N. J., State Hospital Commission to M. Kantrowitz, $2,527,000.

Store and Office, New York, N. Y., J. Tishman & Sons, Inc., will build, $2,500,000.

Apartment, Philadelphia, Pa., Lincoln Drive Apartment Corp. to Longacre Constr. Co., New York City, $1,800,000.

Loft, New York, N. Y., Ralston Realty Co. will build by day labor, $1,500,000.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
Mar. 14	Melrose, Mass.	Mar. 12
Mar. 16	Lake Forest, Ill	Feb. 26
Mar. 16	New York, N. Y.	Feb. 5
Mar. 17	Kansas City, Mo.	Feb. 19
	Adv. Feb. 19 to Mar. 12.	
Mar. 17	Tallahassee, Fla.	Mar. 5
	Adv. Mar. 5 and 12.	
Mar. 17	Garfield, N. J.	Mar. 12
	Adv. Mar. 12.	
Mar. 17	Milwaukee, Wis.	Mar. 12
Mar. 17	St. Paul, Minn.	Mar. 12
Mar. 18	Kansas City, Mo.	Feb. 19
	Adv. Feb. 19 to Mar. 12.	
Mar. 18	Boston, Mass.	Mar. 12
Mar. 19	Kansas City, Mo.	Feb. 19
	Adv. Feb. 19 to Mar. 12.	
Mar. 19	Thorp, Wis.	Mar. 5
Mar. 20	Kansas City, Mo.	Feb. 19
	Adv. Feb. 19 to Mar. 12.	
Mar. 20	Cincinnati, O.	Mar. 12
Mar. 20	Minneapolis, Minn.	Mar. 12
Mar. 21	Kansas City, Mo.	Feb. 19
	Adv. Feb. 26 to Mar. 12.	
Mar. 21	Kansas City, Mo.	Feb. 26
	Adv. Feb. 26 to Mar. 12.	
Mar. 23	St. Augustine, Fla.	Feb. 19
Mar. 30	Bridgewater, Mass.	Mar. 12
	Adv. Mar. 12.	
Mar. 31	Hagerstown, Md.	Mar. 12
	Adv. Mar. 12.	
Apr. 2	Oneida, N. Y.	Mar. 12
	Adv. Mar. 12.	
Apr. 6	Anderson, Ind.	Mar. 12
Apr. 13	Bellingham, Wash.	Mar. 12
Apr. 14	Spartanburg, S. C.	Mar. 5
	Adv. Mar. 5 and 12.	
	SEWERS	
Mar. 16	Akron, O.	Mar. 5
Mar. 16	Huntington Park, Calif.	Mar. 5
Mar. 16	Larchmont, N. Y.	Mar. 5
	Adv. Mar. 5 and 12.	
Mar. 17	Pittsburg, Okla.	Mar. 12
Mar. 17	Milwaukee, Wis.	Mar. 12
Mar. 18	Elizabeth City, N. C.	Feb. 19
Mar. 18	East Chicago, Ind.	Feb. 26
Mar. 18	Grand Rapids, Mich.	Mar. 5
Apr. 2	Rome, N. Y.	Mar. 5
	WASTE DISPOSAL	
Mar. 18	Rye, N. Y.	Mar. 12
	Adv. Mar. 5 and 12.	

Bids Close		See Eng. News-Record
	BRIDGES	
Mar. 16	Illinois	Feb. 26
Mar. 16	New Haven, Conn.	Mar. 12
Mar. 16	Illinois	Mar. 12
Mar. 17	Dayton, O.	Feb. 26
Mar. 18	Baltimore, Md.	Mar. 5
Mar. 23	St. Augustine, Fla.	Feb. 19
Mar. 23	Northampton, Mass.	Mar. 12
	Adv. Mar. 12.	
Mar. 24	Hughesville, Pa.	Mar. 12
Mar. 25	West Virginia	Mar. 5
Mar. 30	Karnes City, Tex.	Mar. 12
Mar. 30	New Jersey	Mar. 12
	Adv. Mar. 12.	
Mar. 31	Louisiana	Feb. 26
	Adv. Feb. 26 to Mar. 12.	
Mar. 31	Georgetown, S. C.	Mar. 12
Apr. 1	Huntington, W. Va.	Mar. 5
	Adv. Mar. 5 and 12.	
Apr. 2	Perth Amboy, N. J.	Mar. 12
	Adv. Mar. 12.	
Apr. 2	Hamburg, N. Y.	Mar. 12
	Adv. Mar. 12.	
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
Mar. 17	Pocahontas, Ia.	Feb. 26
Mar. 17	Minneapolis, Minn.	Mar. 5
Mar. 20	Marlow, Okla.	Feb. 26
Mar. 20	Wakefield, Neb.	Mar. 5
Apr. 1	Clewiston, Fla.	Mar. 5
Apr. 27	Leesburg, Fla.	Mar. 12
	Adv. Mar. 12.	
	STREETS AND ROADS	
Mar. 13	Pennsylvania	Feb. 26
Mar. 13	Manitowoc, Wis.	Mar. 5
Mar. 14	Brooklyn, N. Y.	Feb. 26
Mar. 14	Indiana	Mar. 12
Mar. 16	Illinois	Feb. 26
Mar. 16	California	Feb. 26
Mar. 16	Riverside, Calif.	Feb. 26
Mar. 16	New Jersey	Feb. 26
Mar. 16	San Diego, Calif.	Mar. 5
Mar. 16	Plainfield, N. J.	Mar. 5
Mar. 16	Russellville, Ark.	Mar. 5
Mar. 16	Kahoka, Mo.	Mar. 5
Mar. 16	Elkhart, Ind.	Mar. 12
Mar. 16	Crown Point, Ind.	Mar. 12
Mar. 16	St. George, N. Y.	Mar. 12
Mar. 16	New York, N. Y.	Mar. 12
Mar. 16	Hudson, Wis.	Mar. 12
Mar. 16	Le Grange, Ill.	Mar. 12
Mar. 16	Huntington, W. Va.	Mar. 12
Mar. 17	Kentwood, La.	Mar. 5
Mar. 17	New York	Feb. 26
	Adv. Feb. 26 to Mar. 12.	
Mar. 17	Menasha, Wis.	Mar. 12
Mar. 17	Columbus, O.	Mar. 12
Mar. 17	Hattiesburg, Miss.	Mar. 12
Mar. 17	St. Paul, Minn	Mar. 12

Bids Close		See Eng. News-Record
Mar. 18	Freehold, N. J.	Mar. 5
	Adv. Mar. 5 and 12.	
Mar. 18	Delaware	Mar. 5
Mar. 18	Alabama	Mar. 5
Mar. 18	Williamstown, Ont.	Mar. 12
Mar. 18	Reading, Pa.	Mar. 12
Mar. 18	Kingstreet, S. C.	Mar. 12
Mar. 19	Columbus, Wis.	Mar. 12
Mar. 19	Dayton, O.	Mar. 12
Mar. 19	St. George, N. Y.	Mar. 12
Mar. 19	New York, N. Y.	Mar. 12
Mar. 20	Orangetown, N. Y.	Mar. 5
	Adv. Mar. 5 and 12.	
Mar. 20	Philippi, W. Va.	Mar. 5
Mar. 20	Williamsport, Pa.	Mar. 12
Mar. 20	Cordell, Okla.	Mar. 12
Mar. 20	Pine Bluff, Ark.	Mar. 12
Mar. 23	Sacramento, Calif.	Mar. 5
Mar. 23	California	Mar. 12
Mar. 23	Waupun, Wis.	Mar. 12
Mar. 23	Clarksburg, W. Va.	Mar. 12
Mar. 23	Ontario	Mar. 12
Mar. 23	Sacramento, Calif.	Mar. 12
Mar. 23	Indianola, Ia.	Mar. 12
Mar. 23	Sioux Falls, S. D.	Mar. 12
Mar. 24	North Dakota	Feb. 26
Mar. 24	New Orleans, La.	Mar. 5
Mar. 24	West Virginia	Mar. 5
Mar. 24	Appleton, Wis.	Mar. 5
Mar. 24	North Carolina	Mar. 5
	Adv. Mar. 5 and 12.	
Mar. 24	St. Louis, Mo.	Mar. 5
Mar. 24	Henrietta, Tex.	Mar. 5
Mar. 24	El Paso, Tex.	Mar. 12
Mar. 24	South Dakota	Mar. 12
Mar. 24	Louisville, Miss.	Mar. 12
Mar. 24	Maryland	Mar. 12
	Adv. Mar. 12.	
Mar. 24	Walterboro, S. C.	Mar. 12
Mar. 25	Rhode Island	Mar. 12
	Adv. Mar. 12.	
Mar. 26	West Virginia	Mar. 5
Mar. 26	Virginia	Mar. 12
	Adv. Mar. 12.	
Mar. 27	Sweetwater, Tex.	Mar. 5
Mar. 27	Sinton, Tex.	Mar. 12
Mar. 27	Pennsylvania	Mar. 12
	Adv. Mar. 12.	
Mar. 27	Deal, N. J.	Mar. 12
	Adv. Mar. 12.	
Mar. 29	California	Feb. 19
Mar. 30	Duluth, Minn.	Feb. 12
Mar. 30	Kingston, Pa.	Mar. 12
Mar. 30	Akron, O.	Mar. 12
Apr. 1	Birmingham, Ala.	Feb. 19
Apr. 1	Tuscaloosa, Ala.	Feb. 19
Apr. 1	Cape May, N. J.	Mar. 12
	Adv. Mar. 12.	
June 1	Duluth, Minn.	Mar. 12
Apr. 3	North Dakota	Mar. 5
Apr. 6	Sedalia, Mo.	Mar. 12
Apr. 7	North Dakota	Mar. 5
Dec. 11	Davenport, Ia.	Mar. 5

Bids Close		See Eng. News-Record

BUILDINGS—INDUSTRIAL

Mar. 16	Hibbing, Minn.	Mar. 5
Mar. 16	Phila., Pa.	Mar. 12
Mar. 21	Bonduel, Wis.	Mar. 12
Mar. 21	Milwaukee, Wis.	Mar. 12

BUILDINGS—COMMERCIAL

Mar. 14	Blasdell, N. Y.	Mar. 5
Mar. 15	Gonzales, Tex.	Feb. 19
Mar. 15	Quincy (Boston P. O.), Mass.	Feb. 26
Mar. 15	New Orleans, La.	Mar. 5
Mar. 16	Davenport, Ia.	Mar. 5
Mar. 16	Minneapolis, Minn.	Mar. 12
Mar. 16	Baltimore, Md.	Mar. 12
Mar. 16	Phila., Pa.	Mar. 12
Mar. 16	Camden, N. J.	Mar. 12
Mar. 16	St. Paul, Minn.	Mar. 12
Mar. 16	Oran, Mo.	Mar. 12
Mar. 17	Hannibal, Mo.	Mar. 5
Mar. 17	Freeport, Ill.	Feb. 5
Mar. 17	Dayton, O.	Feb. 26
Mar. 17	Iowa City, Ia.	Mar. 5
Mar. 17	Vineland, N. J.	Mar. 5
Mar. 17	Chicago, Ill.	Mar. 12
Mar. 17	Sioux City, Ia.	Mar. 12
Mar. 17	Harrisburg, Tex.	Mar. 12
Mar. 17	Johnstown, Pa.	Mar. 12
Mar. 17	Phila., Pa.	Mar. 12
Mar. 18	Wingdale, N. Y. Adv. Feb. 26 to Mar. 12.	Feb. 26
Mar. 18	Lincoln, Neb.	Mar. 5
Mar. 18	Attleboro, Mass.	Mar. 12
Mar. 18	Wisconsin	Mar. 12
Mar. 18	Wausau, Wis.	Mar. 12
Mar. 18	Carthage, Mo.	Mar. 12
Mar. 19	Brooklyn, N. Y.	Mar. 5
Mar. 19	Hiawatha, Kan.	Mar. 5
Mar. 19	Canton, O.	Mar. 12
Mar. 20	Altoona, Pa.	Mar. 12
Mar. 20	Milwaukee, Wis.	Mar. 12
Mar. 23	Cincinnati, O.	Mar. 12
Mar. 23	Norwood, O.	Mar. 12
Mar. 23	Detroit, Mich.	Mar. 12
Mar. 24	Cumberland, Md.	Mar. 5
Mar. 24	Little Rock, Ark.	Mar. 12
Mar. 25	New Bedford, Mass.	Mar. 5
Mar. 25	Mechanicsville, N. Y.	Mar. 5
Mar. 25	Creston, Ia.	Mar. 12
Mar. 27	Buffalo, N. Y.	Mar. 12
Mar. 30	Mt. Vernon, Ind.	Mar. 12
Mar. 31	Washington	Mar. 12
Apr. 1	Zanesville, O.	Feb. 19
Apr. 1	San Francisco, Calif.	Mar. 12
July 14	Phila., Pa.	Feb. 19

FEDERAL GOVERNMENT WORK

Mar. 16	Generator Unit—Buffalo, N. Y.	Feb. 26
Mar. 17	Buildings—Great Lakes, Ill.	Feb. 19
Mar. 17	Post Office—Kenton, O.	Feb. 19
Mar. 17	Power Cable, etc. — Wash., D. C.	Mar. 12
Mar. 18	Water Piping—Wash., D. C.	Mar. 5
Mar. 20	Steel—Louisville, Ky. Adv. Mar. 5 and 12.	Mar. 5
Mar. 20	Bridges — Wilmington, Del. Adv. Mar. 5 and 12.	Mar. 5
Mar. 20	Dredging—Providence, R. I. Adv. Feb. 19 to Mar. 12.	Feb. 19
Mar. 22	Substation Equipment — Ft. Warren, Mass.	Mar. 12
Mar. 25	Extension—San Francisco, Calif.	Mar. 5
Mar. 27	Dredging—Providence, R. I. Adv. Feb. 26 to Mar. 12.	Feb. 26
Mar. 27	Drainage—Baltimore, Md. Adv. Mar. 12.	Mar. 12
Mar. 28	Dredging—Charleston, S. C. Adv. Feb. 26 to Mar. 12.	Feb. 26
Mar. 30	Post Office—Thibodaux, La. Adv. Mar. 5 and 12.	Mar. 12
Mar. 31	Sheet Piling—Louisville, Ky. Adv. Mar. 5 and 12.	Mar. 5
Mar. 31	Earthwork—Memphis, Tenn. Adv. Mar. 12.	Mar. 12
Mar. 31	Repairs—Fort Wright (Fishers Island P. O.), N. Y. Adv. Mar. 12.	Mar. 12
Apr. 1	Alterations—Norfolk, Va.	Mar. 12
Apr. 4	Dredging—Galveston, Tex. Adv. Mar. 5 and 12.	Mar. 5
Apr. 8	Hangars—Pearl Harbors, H. T.	Feb. 19
Apr. 9	Dredging — New York, N. Y.	Mar. 12
Apr. 10	Cement—Louisville, Ky. Adv. Mar. 12.	Mar. 12
Apr. 15	Water Tank—Guantanamo Bay, Cuba	Mar. 12

UNCLASSIFIED

Mar. 13	Inspection Shed—New York, N. Y.	Mar. 5
Mar. 17	Subway—Phila., Pa.	Feb. 19
Mar. 20	Station Finish—Brooklyn, N. Y.	Mar. 12
Mar. 23	Estuary Tube—Oakland, Calif.	Feb. 5
Mar. 23	Harbor Improvements—Port Stanley, Ont.	Mar. 5
Mar. 24	Guard Rail — South Dakota	Mar. 12
Mar. 25	Subway—Rochester, N. Y. Adv. Mar. 5 and 12.	Mar. 5
Mar. 25	Fire Alarm System—Willard, N. Y.	Feb. 26
Mar. 25	Fire Sprinklers—Buffalo, N. Y.	Feb. 26
Mar. 25	Heating Work—Utica, N. Y.	Mar. 5
Mar. 25	Fire Protection—Utica, N. Y. Adv. Mar. 12.	Mar. 12
Mar. 31	Heating, Ventilating, etc., Ithaca, N. Y. Adv. Mar. 5 and 12.	Mar. 12
Mar. 31	Police and Fire Alarm — Mobile, Ala. Adv. Mar. 5 and 12.	Mar. 5
Apr. 16	Fire Protection — Newark, N. Y. Adv. Mar. 12.	Mar. 12
May 8	Tunnel—New York, N. Y. Adv. Mar. 5 and 12.	Mar. 5

MATERIAL AND EQUIPMENT

Mar. 13	Ties and Timber—New York, N. Y.	Mar. 5
Mar. 13	Sand, Gravel, etc.—Buffalo, N. Y.	Mar. 5
Mar. 16	Grader—Hastings, Minn.	Mar. 5
Mar. 16	Street Sprinkler—West Milwaukee (Milwaukee P. O.), Wis.	Mar. 12
Mar. 16	Roofing Material, etc.—New York, N. Y.	Mar. 12
Mar. 16	Gravel and Sand, etc.—Boston, Mass.	Mar. 12
Mar. 17	Paving Blocks and Cement—Milwaukee, Wis.	Mar. 12
Mar. 17	Cable, etc.—Boston, Mass.	Mar. 12
Mar. 17	Road Oil — St. Paul, Minn.	Mar. 12
Mar. 17	Tractor — Minneapolis, Minn.	Mar. 12
Mar. 18	Asphaltic Cement — Pennsylvania	Feb. 26
Mar. 18	Asphaltic Cement, etc. — St. George, N. Y.	Mar. 12
Mar. 18	Patching, etc. — Boston, Mass.	Mar. 12
Mar. 19	Tandem Roller—Cincinnati, O.	Mar. 12
Mar. 19	Cement—Boston, Mass.	Mar. 12
Mar. 24	Street Sweeper—Appleton, Wis.	Mar. 5
Mar. 24	Graders — Montevideo, Minn.	Mar. 12
Mar. 30	Snow Plows—Delaware Adv. Mar. 12.	Mar. 12
Apr. 1	Crane — Melbourne, Australia	Feb. 19
Apr. 3	Street Flusher and Truck — Wauwatosa, Wis.	Mar. 12

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Canton — Bd. Selectmen plans extending mains from town proper to York Dist. $30,000. Engineer not selected.

Mass., Lawrence—City Pub. Wks. Dept. plans boiler and pump, also c.i. pipe and concrete filter basin. Morris Knowles, Inc., 507 Westinghouse Bldg., Pittsburgh, Pa., engrs.

Mass., Wrentham — Bd. Selectmen plans extending water system in western section of town to Sheldonville. Engineer not selected. $35,000.

Conn., Putnam — Water Dept. plans to purchase 3 m.g. motor driven centrifugal pump. $8,500. A. Chapdelaine, mayor.

Pa., Neville Island (mail McKees Rocks) —Ohio Valley Water Co., 523 Lincoln Ave., Bellevue, having plans prepared 1 story, 34 x 62 ft., brick water softening plant and equipment, also steel tank, 18 ft. diam. and 10 ft. high, here. $75,000. J. N. Chester, Union Bank Bldg., Pittsburgh, engr.

Fla., Bartow—Election Mar. 31, $120,000 bonds extending water system. R. B. Huffaker, mayor.

O., Canton—Plans developing new water source, incl. wells and necessary pumping stations. $150,000. W. E. Sarver, city engr.

O., Columbus—See "Streets and Roads."

Ill., East St. Louis—City and Interurban Water Co., 513 Missouri Ave., making preliminary plans new river intake on Cheuteau Island near mouth of Missouri River, and conduit to connect with present plant and distribution system, etc. $3,000,000. Private plans.

Ia., Red Oak—Making preliminary plans improving waterworks and extending distribution system. Election in spring $40,000 bonds for same.

Neb., Greenwood — Plans waterworks system. $25,000. Grant, Fulton & Letton, 525 South 13th St., Lincoln, engr.

Mo., Boonville — Soon takes bids two motor driven centrifugal pumps. $7,500.

Mo., Steele—Voted $30,000 bonds waterworks plant, pumps, reservoir and mains. A. C. Moore, 222 Industrial Bldg., Joplin, engr.

Tex., Flatonia—Election Apr. 15, $70,000 bonds waterworks and sewerage systems. Municipal Eng. Co., 1715 Praetorian Bldg., Dallas, engrs. Noted Mar. 5.

Tex., Hillsboro — Voted $25,000 bonds waterworks and sewer extensions. Address A. M. James, city secy. Noted Jan. 29.

Tex., Houston—Election Apr. 13, $750,000 bonds waterworks improvements, incl. work at Scott St. plant. O. F. Holcombe, mayor. Engineer not selected.

Tex., Idalou—Making plans waterworks, mains, laterals, well, pumping equipment, etc. $40,000. Montgomery & Ward, Wichita Falls, engrs.

Tex., Jayton—Voted $50,000 bonds, constructing entire system, incl. well, mains, pumping equipment, etc. Montgomery & Ward, City Natl. Bank Bldg., Wichita Falls, engrs. Noted Oct. 16.

Tex., Victoria—Takes bids after Mar. 15, 34 x 52 ft. waterworks plant addition, rein.-con. and hollow tile, also 90 ft. rein.-con. smoke stack, and two 6 x 18 ft. boilers. $35,000. W. E. La Noue, c/o Texas State Bank Bldg., San Antonio, engr.

Calif., Gustine — Plans election $15,000 bonds, new water tank, improving pumping equipment and new mains. A. E. Cowell, Merced, engr.

Calif., Perris — Made plans 500,000 gal. reservoir and extending pipe line to connect with same. J. P. Flynn, city engr. Noted Jan. 29.

BIDS DESIRED

Mass., Boston—Mar. 18, by Dept. Pub. Wks., City Hall, mains in Landseer Terrace, West Roxbury Parkway, Metropolitan Ave., Beech, Francis, Keith, Maynard and Popular Sts., in West Roxbury; also Astor and Flint Sts. in Dorchester; and York St. in Brighton. $15,000. J. A. Rourke, comr.

Mass., Bridgewater—Mar. 30, at office of Bd. Water Comrs., about 10 mi. 6- to 14-in. c.i. mains. Barbour & Dixon, Tremont Bldg., Boston, consult. engrs.; adv. E. N.-R. Mar. 12.

Mass., Melrose—Mar. 14, at office City Engineer, City Hall, c.i. water pipe during year of 1925. A. M. Tibbitts, mayor.

N. Y., Oneida — Apr. 2, by Bd. Water Comrs., constructing Contracts B, C and D, on Florence Creek Water Project. M. E. Brophy, city clerk; adv. E. N.-R. Mar. 12.

N. J., Garfield—Mar. 17, by W. Burke, mayor and City Council, complete deep well water and pumping system. J. Novack, city clk.; adv. E. N.-R. Mar. 12.

O., Cincinnati—Mar. 20, by Director Pub. Serv., 750 lin.ft. 36-in. c.i. pipe for water distribution system for Eden Park Reservoir. $10,000. F. Krug, City Hall, engr.

O., Cleveland — A. K. Hoare comr. Purchases & Supplies, taking bids one 60 m.g. per hour steam turbine, reduction gear driven centrifugal pumping unit for Kirtland Pumping Station.

O., Columbus—See "Streets and Roads."

Ind., Anderson—Apr. 6, by R. L. Creson, city clk., drilling and equipping water well which will guarantee to furnish water at the rate of 700 U. S. gal. per minute, etc. W. H. Donney, Anderson, engr.

Minn., Minneapolis—Mar. 20, by F. S. Gram, city purch. agt., two 48-in. horizontal flanged gate valves. N. W. Elsberg, city engr.

Minn., St. Paul — Mar. 17, by H. W. Austin, city purch. agt., corporation stops, curb stops, copper tubing and other fittings for Water Dept. G. M. Shepard, city engr.

Neb., Ruskin—Village Clerk taking bids and open same about Mar. 12, waterworks and distribution system. $16,000. Henningson Eng. Co., 12th St., Omaha, engrs. Noted Feb. 19.

Okla., Ponca City — J. W. Crow, city purch. agt., in market for 2,500 g.p.m. motor driven pump.

Ariz., Flagstaff—Mar. 31, by City Clerk, 50 m.g. concrete reservoir, earth embankment type, 94,000 cu.yd. excav., 1,700 cu.yd.

Waterworks (Continued)

concrete and 2,500 squares Gunite; approximately 79,000 ft. 13- to 16-in. copper bearing slip joint steel pipe flow line; distribution system improvements, incl. furnishing, hauling and laying 14,300 ft. 12 and 14 in. Mathison joint steel and 1,400 ft. 12 in. c.i. pipe, also reclaiming and relaying 26,650 ft. 6, 8 and 10 in. c.i. pipe. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Jan. 22.

Wash., Bellingham — Apr. 13, by City Council, high line main. $265,000. W. B. Short, city engr.

Calif., San Bernardino—Water Comn. in market for 5,000 ft. each 2.5, 3 and 4 in. full weight standard merchant pipe, black, threaded and coupled with thread protectors, not dipped, also 5,000 ft. 6 in. and 1,000 ft. 8 in. O. D. lap-welded steel water pipe with B & S ends for lead joints. W. Starke, supt.

Calif., San Bernardino—W. Starke, supt. Water Comn., in market for 1,150 lin.ft. 8 in. and 10,000 lin.ft. 6 in. riveted steel water pipe.

BIDS RECEIVED

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Mar. 9, mains in Barker, Barnes, Byron, Chaffee, Cranford, Ely, Meagher, Pitman and Tieman Aves., from C. De Blasio, 339 7th Ave., Mt. Vernon, $10,765; in Carolin St., etc., from Stanhey Constr. Co., Steinway Ave., Long Island City, $21,-945. Noted Mar. 5.

N. Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Mar. 4, mains in Arden, Bismarck, Bowles, Fitzgerald, Hammersley, Kissam Aves., etc., from G. V. Cornell, Rosebank, $27,500.

O., Cleveland—City, 36 in. (a) steel or (b) c.i. mains in (1) 11,700 ft. North Raw Water Main Dist. (2) 5,000 lin.ft. Pearl Rd., West Side High Service Main, (3) 15,750 ft. Edgewater Dr., from Great Lakes Constr. Co., 200 B. F. Keith Bldg., (a1) $308,295; from Langhan Constr. Co., Marshall Bldg., (a2) $88,575; from Joseph, Kalill & Jackson, Erie Bldg., (b2) $94,858 (a3) $280,060. Noted Feb. 26.

Wis., Wauwatosa—A. V. Brigham, city clk., Feb. 27, from Waterous Fire Engine Co., 80 Fillmore Ave., St. Paul, Minn., 25 hydrants at $80 and $75 each, twenty-five 6 in. gate valves $25.50 each, and six 8 in. gate valves $40 each. Noted Feb. 19.

CONTRACTS AWARDED

N. J., Sea Girt—Common Council 150,000 gal. elevated steel water tank with steel tower, to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $9,500. Noted Feb. 5.

N. C., Aulander — Water and sewerage systems, to L. D. Harper, Rocky Mount, $80,000.

Ill., Highland—B. D. Tibbetts, city clk., 52,774 ft. 2- to 8-in. c.i. mains in various streets, 65 fire hydrants, 71 valves and 6 boxes, clear well, filter plant of 2 units 600,000 g.p.m., two 700 g.p.m. motor driven pumps, to Merkle Mchy. Co., 1733 Walnut St., Kansas City, Mo., $125,000. Noted Feb. 19.

Ill., Pinckneyville — For 1,400 g.p.m. centrifugal pump and motor, 500 g.p.m. and two 600 g.p.m. pumps and motors, 500 g.p.m. fire pump and gasoline engine, to Farrar Pump & Machine Co., Granite Bldg., St. Louis, Mo., $5,337. Noted Feb. 19.

Wis., Fond du Lac — Water Dept., J. Breister, supt., to J. B. Clow & Sons, 544 South Franklin St., Chicago, Ill., 2,500 ft. 4 in. pipe at $54.50 per ton, and 3,000 ft. 6 in. pipe $50.50 per ton. Noted Feb. 19.

Wis., New London—City, c/o C. Thompson, city clk., will lay 7,050 lin.ft. 6 and 8 in. Class B mains in various streets, by day labor. To exceed $15,000.

Ia., Ames — City will construct 3 mi. mains, various sizes, with own forces. P. F. Hopkins, city mgr. Noted Mar. 5.

Kan., Kansas City—Two 4 m.g. motor driven centrifugal pumps, to DeLaval Steam Turbine Co., 401 Dwight Bldg., Kansas City, $5,725. Noted Mar. 5.

Tex., Corpus Christi—Pump and Diesel engine driven generators, to San Antonio Machine & Supply Co., 325 North Center St., San Antonio, $43,725. Noted Feb. 19.

Okla., Braman—Waterworks, incl. open well, elevated tank and tower, and distribution mains, to Galaciez Constr. Co., Enid, $21,421. Noted Jan. 8.

Okla., Durant—City will construct 6,600 ft. 4- to 8-in. mains, water softening plant, etc., by day labor under supervision of L. V. Stinson, City Hall, engr. $35,000. Noted Oct. 30.

Wash., Seattle—Bd. Pub. Wks., mains in West Marginal Way, LID 3947, to G. Argenteria & Co., 1819 Weller St., $63,797. Engrs. est. $70,695. Noted Feb. 26.

Calif., Los Angeles — Los Angeles Co. for fire protection and water system, also water softeners at Olive View Sanitorium, here, to Howard-Olsen Co., 2103 Santee St., $28,085.

Sewers

PROPOSED WORK

Conn., Watertown — Bd. Water Comrs., F. W. Judson, chn., plans sewage system. $25,000. Engineer not announced.

N. J., Hawthorne—Takes bids about June 15, sewerage system. $300,000. H. J. Harder, 129 Market St., Paterson, engr.

W. Va., Charleston — Election Mar. 19, $100,000 bonds, sanitary sewerage system. D. C. Dolly, city clk.

Fla., Bartow—Election Mar. 31, $41,000 bonds extending sewerage system. R. B. Huffaker, mayor.

O., Canton—Bd. Control soon takes bids about 1 mi. South West Storm Water Sewer. $50,000. W. E. Sarver, City Hall, engr.

O., Cincinnati—Plans 1,590 ft. 8- to 24-in. vitr. clay and 2,973 lin.ft. 33- to 42-in. trunk sewer in Montgomery Pike and Woodmont Ave. $69,100. F. Krug, City Hall, engr.

O., Columbus—See "Streets and Roads."

O., Martins Ferry — City Council soon takes bids for 25,000 lin.ft. sewers in Heil-Davis addition. $51,000. A. Lundberg, Martins Ferry, engr.

Wis., Janesville — H. Traxler, city mgr. soon takes bids 1,000 ft. 30 in. concrete 400 ft. 18 in., 600 ft. 15 in., 9,000 ft. 12 in. and 2,300 ft. 15 in. vitr. sewer pipe. C. V. Kerch, City Hall, engr.

Neb., Columbus—City, c/o W. Becker, clk., plans storm sewer with outlet in Loup River. $45,000. M. Gottschalk, Columbus, engr. Noted Jan. 1.

Ark., Batesville—Plans 22,000 ft. 8- to 12-in. sanitary sewers, etc., in Dist. 4, comprising West Batesville. $30,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, Okla., engrs.

Tex., Clarendon—Election Apr. 3, $121,-000 bonds sanitary sewerage system. F. E. Devlin, 614 Bitting Bldg., Wichita, Kan., engr.

Tex., Donna—Voted $40,000 bonds sewer extensions and improvements. W. Whigham, mayor. Noted Feb. 19.

Tex., Flatonia—See "Waterworks."

Tex., Hillsboro—See "Waterworks."

Tex., Houston—Election Apr. 13, $250,000 bonds sanitary sewer extensions. J. C. McVey, city engr.

Tex., O'Donnell—Election soon $100,000 bonds sewer and waterworks improvements, incl. mains, disposal plant, pumping equipment, etc. Lynn Co., O'Donnell, engrs. Address Mayor.

Tex., Rosebud — Voted $38,000 bonds, sewerage system. G. W. Lehman, mayor. Engineer not selected. Noted Feb.19.

Okla., Blanchard — Making preliminary plans 4 mi. sewers and septic tank. $26,-000 bonds sold. Engineer not selected. A. J. Slack, mayor.

Okla., Medford — Making preliminary plans 4 mi. sewers and septic tank. $30,000. Engineer not selected. F. Fisk, mayor.

Okla., Prague—Election Mar. 17, $30,000 bonds for disposal plant and 15,800 ft. 10- to 15-in. vitr. clay sewers in all streets. Holway Eng. Co., Wright Bldg., Tulsa, engrs.

Nev., Sparks—Making preliminary plans new sewer mains, laterals and septic tank. $200,000 or more. King & Malone, Washoe Co. Bank Bldg., Reno, engrs.

Calif., Los Angeles—City Council plans 6 and 8 in. sewers complete in Marcia Dr. between Maltman Ave. and Edgecliffe Dr.; 6 in. vitr. sewer in Montezuma St. in Highland Park Terrace, 8 in. cement sewer in 84th St. between Vermont and Raymond Aves., and in Ellett Pl. H. A. Van Norman, city engr.

Calif., Patton—See "Buildings—Commercial."

Calif., Santa Barbara — Making plans East Side Drainage System, 20,000 cu.yd. excav., 16,750 ft. 18- to 54-in. concrete pipe, etc., $100,000; East Side Sewer (lower system), 8,500 cu.yd. excav., 18,400 ft. 6- to 14-in. virt. pipe, 60 manholes, etc., $70,-000. L. R. Walker, City Hall, engr.

BIDS DESIRED

Va., Richmond—Mar. 6, at office of R. K. Compton, dir. Pub. Wks., constructing segment block, terra cotta and precast rein.-con. sewers, also furnishing segment block, precast rein.-con., and terra cotta pipe, cement, brick castings, and steps. $425,000.

O., Columbus—See "Streets and Roads."

Wis., Milwaukee — Mar. 17, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., 4,363 lin.ft. 30 in. concrete and 5,144 lin.ft. 18 and 24 in. terra cotta sewer, etc., in Sect. 2 Lincoln Ave. T. C. Hatton, c/o owner, engr.

Wis., Milwaukee — See "Material and Equipment."

Okla., Pittsburg — Mar. 17, by H. N. Beussey, city clk., septic tank and 20,000 ft. 6- to 12-in. vitr. clay sewers in all streets. $27,000. Gant Baker Co., 1116 West Main St., Oklahoma City, engrs. Noted Jan. 15.

BIDS RECEIVED

Md., Baltimore — Bd. Awards, 1,850 ft. 48 and 54 in. and 760 ft. 36 in. concrete, also 1,270 ft. 15 in. vitr. sanitary sewers in Storm Water Contr. 82, from F. D. Carozza, Govans, $39,539. Noted Feb. 26.

O., Cleveland—For 1,100 ft. 15 in. vitr. tile sewer in Oak Park Ave., and 4,585 ft. 12- to 24-in. in Kildeer Ave., from Salem & George, Bros., Erie Bldg., $8,469 and $17,130 respectively; 4,220 ft. 12- to 24-in. in Chicasaw Ave., from Hadded & Karial Constr. Co., 640 Huron Rd., $15,132.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in 150th Ave., to Paino Bros., 32 Court St., Brooklyn, $749,240. Noted Mar. 5.

Md., Baltimore—Bd. Awards, 12,000 ft. lateral sanitary sewers, etc., in Dist. 47 E. Contr. 217, to N. Martell, 417 South Eden St., $36,181. Noted Mar. 5.

O., Columbus—W. H. Duffy, dir. Pub. Serv., storm sewer in Darmoor Rd., Contr. 1, 1,272 ft. 108 in., and 1,735 ft. 69 in. pipe, also Contr. 2, 5,920 ft. 36- to 72-in. pipe, to Conley Bros., Cincinnati, $69,953 and $84,623 respectively. Engrs. est. $100,000 each.

Ill., Highland—For 52,023 ft. 6- to 15-in. vitr. clay sewers in various streets, 47,700 cu.yd. excav., 400 ft. 15 in. sewer on trestle, 275 ft. 8 in. pipe under railroad, 80 manholes, 62 catch basins, 13 drop manholes, etc., to Fjellafold & Chapman, Forest City, Ia., $100,149.

Wis., Milwaukee — J. H. Fowles, secy. Sewerage Comn., 508 Market St., superstructure for 120 x 500 ft., brick and steel sludge storage building, on Jones Island, to Paul Riesen's Sons, 1018 Humboldt Ave., $97,464. Noted Nov. 13.

Wis., North Milwaukee — Metropolitan Sewerage Comn., 508 Market St., Milwaukee, J. H. Fowles, secy., main sewer in Hampton Ave. and 43rd St., 5,600 ft. 30 in. concrete and 1,420 ft. 12 in. terra cotta pipe, 327 vertical ft. standard and 66 vertical ft. drop manholes, to G. E. Zimmermann, 3402 Grand Ave., Milwaukee, $144,700. Engrs. est. $150,000.

Mo., St. Joseph—Brookdale Relief Sewer, to Hanson & Willadson Co., 411 Arlington Bldg., Omaha, Neb., $46,239.

Mo., Salem — For 9,630 ft. 6- to 15-in. vitr. clay sewers, rectangular type Imhoff tank, manholes, etc., to Easley Bros., Aurora. Noted Jan. 15.

Okla., Seminole — For disposal plant, septic tank, 14,800 ft. 6- to 12-in. vitr. clay sewers in all streets, to Sherman Iron Wks., 18 East Main St., Oklahoma City, $34,230. Engrs. est. $36,000.

Calif., Los Angeles—Los Angeles Co., to P. Reach, 612 New High St., sewer in Compton Ave. between Shorb and Slauson Aves., 5,259 ft. 8 in. cement pipe at $1.63 per ft., 2,659 ft. 10 in. $1.81, 4,108 ft. 12 in. $2.04, 1,068 ft. 15 in. $2.75, and 11,600 ft. 6 in. vitr. pipe $0.98.

B. C., Point Grey—Sewers in Blenkin St. and Marine Dr., to N. Casco, 1381 Seymour St., Vancouver, $35,659.

Waste Disposal

PROPOSED WORK

N. Y., New York—City making plans 2 story, 72 x 275 ft., rein.-con. and brick, waste disposal plant, Stanton St. $500,000.

BIDS DESIRED

N. Y., Rye—Mar. 18, by W. H. Selzer, village clk., 30 ton incinerator, north of Rye Beach Ave. and west of Blind Brook. J. A. Ehler, village engr.; adv. E. N.-R. Mar. 12.

O., Cleveland—See "Material and Equipment."

Bridges

PROPOSED WORK

Tennessee—Polk Co. (Benton) and Dept. Highways & Pub. Wks., Nashville, making surveys bridge over Connasauga River, near Georgia State line.

Tenn., Knoxville — City and Southern R.R. Co., 13th St. and Pennsylvania Ave.,

Bridges (Continued)

Wash., D. C., making surveys rein.-con. viaduct over railroad tracks at Broad St. $250,000. L. Brownlow, city mgr. J. B. Ackers, ch. engr.

Wisconsin and Iowa — Prairie du Chien and Iowa Bridge Co., c/o E. C. Garvey, Prairie du Chien, plan approximately 2 mi. steel bridge over Mississippi River, connecting Prairie du Chien, Wis., with McGregor and Marquette, Ia. $700,000. J. F. Jackson, 1536 Humboldt Ave., Milwaukee, engr.

Kansas — Lyons Co. (Emporia) soon takes bids two 140 ft. span steel or Marsh arch bridge over Neosho River near Hartford, also 30 ft. concrete arch bridge, and 60 ft. steel span bridge, both with 20 ft. roadways, on Federal Aid Project 260, Sect. D of Northeastern Rd. W. S. Ruggles, Emporia, engr.

Kan., Newton—Harvey Co. making preliminary plans 235 ft. deck arch bridge, 25 ft. roadway and 200 ft. water way, etc. over Sand Creek, on West Bway. $35,000. Marsh Eng. Co., 205 Masonic Temple, Des Moines, Ia., engr.

Kan., Winfield—Cowley Co. soon takes bids 4 span 140 ft. steel truss bridge with 20 ft. concrete roadway, over Arkansas River, at Summitt St. $95,000. W. S. Ruggles, Winfield, engr.

Mo., Kansas City—Park Bd., City Hall, making plans 3,800 ft. highline viaduct, probably rein.-con. spanning five railroads, on Washington Park Blvd. $1,000,000. W. H. Dunn, City Hall, engr.

Tex., Barstow—See "Streets and Roads."

Tex., Beaumont—City and Southern Pacific Ry., 65 Market St., San Francisco, Calif., plan rein.-con. and steel viaduct over railroad tracks. $300,000 bond election at once for city's portion of cost. Total $600,000.

Tex., San Angelo—City and Tom Green Co. plan steel and concrete bridge across North Concho River on Abe St., city election April 1 for $20,000 bonds, its share of cost. Total cost $40,000. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs.

Okla., Clinton — State Hy. Dept., Oklahoma City, made plans 2 span 140 ft. steel and concrete bridge, here, Custer Co., $35,000. J. M. Page, highway engr.

Ore., St. Johns (Sta. Portland)—City of Portland appointed G. Ludenthal, engr., Penn Terminal, New York City, to prepare plans and estimates for new St. Johns Bridge across Willamette River. To exceed $2,000,000.

Calif., Pomona—City, Los Angeles Co. (Los Angeles), Southern Pacific R.R. Co., 65 Market St., San Francisco, and Union Pacific Ry., 58 East Washington St., Chicago, Ill., making plans viaduct. $90,000. F. C. Froehde, city engr.

Calif., Santa Barbara — Voted $60,000 bonds constructing five bridges over Mission and Alisos Creeks. G. Morrison, city engr. Noted Feb. 5.

Calif., Santa Barbara—Defeated $100,000 bonds constructing Carillo St. viaduct and approaches. G. D. Morrison, city engr. Noted Jan. 29.

Que., Gentilly—Dept. Pub. Wks. Provincial Government, Quebec, made plans new bridge, here. $30,000. I. E. Vallee, c/o owner, engr.

Ont., Hawkesbury — Dominion Government, Ottawa, plans interprovincial bridge over Ottawa River, here, $40,000, also St. Annes Lock Highway Bridge over Ottawa River, at Isle Perrot, $50,000.

B. C., Victoriaville—Made plans rebuilding 3 span 400 ft. steel bridge, to replace one destroyed by flood. $40,000. I. E. Vallee, c/o Dept. Pub. Wks., Quebec, engr.

BIDS DESIRED

Mass., Northampton — Mar. 23, by Bd. Pub. Wks., City Hall, removing existing iron truss bridges and constructing Cooks Dam Bridges, etc., over Mill River on Main St., Leeds, here. T. F. McGrath, chn.; adv. E. N.-R. Mar. 12.

Conn., New Haven—Mar. 16, at office of director Pub. Wks., Room 16 City Hall, rein.-con. bridge over Morris Creek, at South End Rd. between Meadow View St. and new bridge, 1,950 cu.yds. rock cut, 6,600 cu.yd. filling. E. D. Nettleton, city engr.

N. Y., Hamburg—Apr. 2, by J. E. Leach, town clk. at office G. B. Abbott, supervisor, Hamburg Finance Bldg., Main St., steel truss highway bridge known as McGee or Bridge 3, across Eighteen Mile Creek. G. C. Diehl, 577 Ellicott Sq., Buffalo, co. engr.; adv. E. N.-R. Mar. 12.

New Jersey — Mar. 30, by State Hy. Comn., Trenton, removing existing highway bridge and constructing new bridge, etc., over Alloways Creek, M. P. 3.7-S, Route 6, Salem Co. A. L. Grover, secy.; adv. E. N.-R. Mar. 12.

N. J., Perth Amboy — Apr. 2, by Bd. Freeholders Middlesex Co., County Record Bldg., New Brunswick, Trunnion Bascule span bridge over Woodbridge Creek, on State St., here, Woodbridge Twp. W. F. Buchanan, 175 Smith St., acting co. engr.; adv. E. N.-R. Mar. 12.

Pa., Hughesville — Mar. 24, by Comrs. Lycoming Co. (Williamsport), 120 ft. steel riveted truss bridge on rein.-con. abutments, 16 ft., at Bryans Mill near here. M. C. Krause, Williamsport, co. engr.

Virginia—See "Streets and Roads."

S. C., Georgetown — Mar. 31, at office Georgetown Co. Hy. Comn., 596 ft. rein.-con., steel and creosoted timber bridge and approaches on State Route 40, State Project S-562. State Highway Engineer, 1626 Main St., Columbia, engr.

Illinois—Mar. 16, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, three 40 ft. span, rein.-con. and steel bridge, on Route 33, Sect. 7-B, Effingham Co., 72,550 lb. structural steel. F. T. Sheets, ch. engr.

South Dakota — Mar. 24, by State Hy. Comn. Pierre, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)** grading 10.8 mi. S. A. P. 110 McPherson Co., Leola E., 99,258 yd. common excav. etc., 12.3 mi. F. A. P. 184 B, Beadle Co., Wolsey N., 95,132 yd. common and 353 yd. rock excav. etc., 11.99 mi. F. A. P. 188 B, Hutchinson Turner-McCook Counties, Freeman N., 78,261 yd. common and 78 yd. rock excav., etc., 10.51 mi. F. A. P. 189 A, Chas. Mix-Brule Counties, Academy N. W., 79,202 yd. common and 1,589 yd. rock excav., etc., 14.03 mi. F. A. P. 191 C, Clark Co., Clark S., 121,043 yd. common and 210 yd. rock excav., etc., 12.98 mi. F. A. P. 191 A, Day Co., Webster S., 82,069 yd. common and 549 yd. rock excav., etc., 13.85 mi. F. A. P. 171 C, Marshall Co., Britton E., 88,260 yd. common and 3,514 yd. rock excav., etc., 12.48 mi. F. A. P. 171 B, Brown Co., Barnard E., 91,602 yd. common and 705 yd. rock excav., etc., 14.11 mi. F. A. P. 178 C, Yankton Co., 11.03 mi. F. A. P. 171 D, Brown Co., and 12.5 mi. F. A. P. 185, B, Jackson Co.; one 45 ft. viaduct on F. A. P. 171 C, Marshall Co., 13,500 lb. reinforcing etc., four 23 ft. viaduct on F. A. P. 189 A, Chas. Mix-Brule Counties, 23,342 lb. reinforcing, etc. and one 34 ft. viaduct on S. A. P. 110, McPhearson Co., 7,943 lb. reinforcing, etc. T. Soliglad, acting highway engr.

South Dakota—See "Streets and Roads."

Tex., Henrietta — See "Streets and Roads."

Tex., Karnes City — Mar. 30, by O. N. Powell, Karnes City, engr. Karnes Co., three concrete and steel bridges, Rd. Dist. 3 on state highway radiating from here. $35,000.

Washington—See "Streets and Roads."

BIDS RECEIVED

New Jersey—Bd. Freeholders Monmouth Co., Freehold, reconstructing Main St. bridge, Matawan, also concrete bridge on Main St., Allenhurst, from L. J. Selling, Red Bank, $18,703 and $29,357 respectively. Noted Feb. 19.

Tex., Houston—See "Streets and Roads."

Tex., Pearsall—See "Bridges."

Colo., Denver — Through plate girder bridge across South Platte River at West 3rd St., from J. Everett Young Constr. Co., Tramway Bldg., $35,872.

California — State Hy. Comn., Sacramento, Mar. 2, 180 ft. rein.-con. bridge over San Juan Creek, Orange Co., from Stevens Bros. & Haas, Lomita, $26,792. Noted Feb. 19.

CONTRACTS AWARDED

Alabama—State Hy. Dept., Montgomery, several small bridges on Georgiana-McKenzie-Conechu Co. line Rd., Butler Co., to D. F. Harvey, Memphis, Tenn., $39,436; on Fayette-New Lexington Rd., Tuscaloosa Co., to Lamb & McLemore, Eutaw, $102,059.

Ohio—See "Streets and Roads."

Ia., Marion — Lynn Co., bridges and culverts in Franklin, Lynn, Boulder, Clinton, Spring Grove and Fayette Twps., to P. Jayne, Marion, $48,178. Noted Feb. 12.

Neb., Pawnee City — Pawnee Co. for bridge, to Walker Robb, Pawnee City, $30,000.

Tex., Barstow — Ward Co. (Barstow) and Reed Co. (Pecos) 193 ft. steel truss and concrete girder bridge, with concrete piers over Pecos River, to Brown-Abbott Co., Inc., Wilson Bldg., Dallas, $28,997. Engrs. est. $26,500. Noted Feb. 26.

Tex., Floresville — See "Streets and Roads."

Tex., Sonora—See "Streets and Roads."

Oklahoma—See "Streets and Roads."

Okla., Harrah—State Hy. Dept., Oklahoma City, bridge over Canadian River, on Federal Aid Project 131, Sect. D, here, Oklahoma Co., to T. Evans, Oklahoma City, $99,498.

Dam

PROPOSED WORK

Washington — See "Unclassified" under Power Development.

Railways

PROPOSED WORK

North Carolina—See "Buildings—Industrial" under High Point.

Ohio — New York, Chicago & St. Louis R.R., c/o J. Bernet, pres., Columbia Bldg., Cleveland, applied to Interstate Commerce Comn. for construction permit 60 mi double tracking from Waverly to Valley Crossing, incl. grading, yards, passenger and freight stations. $10,000,000. J. K. Conner, Columbia Bldg., Cleveland, engr.

Kansas and Oklahoma — Chicago, Rock Island & Pacific R.R. Co., 179 West Jackson Blvd., Chicago, Ill., plans 42 mi second main line track between Latimer and McFarland, Kan., $1,200,000; branch line from Ponca City, Okla., to Billings, Okla., $850,000; freight terminals, tracks, buildings, etc., $250,000; new coal chute, appurtenance, etc. at Topeka, Kan., $30,000. C. A. Morse, ch. engr.

California—City and San Francisco Co. plan election $2,045,000 bonds for portion of cost of Bernal Cut, and $1,826,000 bonds, portion of cost for tunnels. Total $3,971,000. M. M. O'Shaughnessy, city engr.

CONTRACTS AWARDED

Missouri — Missouri, Kansas & Texas R.R., Railway Exch. Bldg., St. Louis, will build concrete pier and pile trestle approach to bridge on Houston division, $50,000; additional trackage at Springtown, Okla., 21,000; car sidings, cinder pit, etc., at McKittrick, Mo., $30,000; replace 341 ft. pile trestle with creosoted ballast dock trestle on Dallas division, $19,000, by day labor. E. A. Hadley, ch. engr.

Nevada—Blue Diamond Co., 2200 East 16th St., Los Angeles, Calif., 12 mi. railroad connecting Union Pacific with Arden, Nev., to C. E. Shannahan & Co., 544 San Fernando Bldg., Los Angeles, approximately $60,000.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Ill., Vandalia—Okaw Valley Outlet D. D., Fayette Co., making preliminary plans straightening Okaw River to protect 65,000 acres, incl. approximately 10,000,000 cu.yd. excav. suitable for bridges, etc. J. V. Waddell, Vandalia, engr. T. N. Jacob, 1900 Railway Exch. Bldg., St. Louis, Mo., consult. engr.

Ark., Newport—Locust Slough D. D. 12, Jackson Co., takes bids about May 1, levees, drainage ditches, laterals, etc. Bowman Eng. Co., Newport, engrs. Noted Nov. 13.

Calif., Stockton—Plans election $3,000,000 bonds to finance deep water project, dredging, etc. W. B. Hogan, city engr.

Canada—Dominion Government, Ottawa, Ont., plans improving Chambly Canal $46,000, Lachine Canal $72,000, Soulanges Canal $20,000, St. Annes Lock $12,000, Ontario-St. Lawrence Canals $107,000, St. Peters Canal $45,000, Trent Canal $435,000, Welland Canal $15,151,000; dredging at Lunenberg, N. S. $60,000, Malagash, N. S. $22,700, St. Marys River $28,000; reconstructing breakwater and dredging at North Ingonish, N. S., and dredging in Gaspereau River, North Elgin, N. B. $20,000, Doucet Landing, Que. $25,000, Pentecost River, Que. $22,000, St. Antoine de Tilly, Que. $15,000, Valleyfield, Que. $32,000, Blind River, Ont. $47,000, Byng Inlet, Ont. $38,000, Honey Harbor $15,800, Owen Sound, Ont. $83,000, Pembroke, Ont. $64,500, Point Edward, Ont. $30,000, and Courtney Bay, B. C. $35,000.

BIDS DESIRED

Me., Rockland—New England Portland Cement & Lime Co., taking bids removing about 50,000 to 75,000 yds. loose soil, gravel and spalls on steam shovel rental basis or yardage price, also 1 mi. railroad siding. Private plans.

Fla., Leesburg—Apr. 27, by City, about 46,500 cu.yd. sand and muck fill. H. S. Jandon Eng. Co., Leesburg, engrs.; adv. E. N.-R. Mar. 12.

BIDS RECEIVED

Calif., San Francisco — State Harbor Comn., Ferry Bldg., Feb. 19, 160,000, cu.yd. dredging trench, from Amer. Dredging Co.,

Excavation, Drainage, Irrigation, Levees (Continued)

255 California St., at $0.30 per cu.yd., total $48,000; constructing dike, 172,000 to 200,000 tons native rock, from F. W. Camp Co., 734 Bush St., Proposal 1 $0.60 per ton, Proposal 2 $0.60 per ton, total complete project $124,200. Noted Feb. 12.

CONTRACTS AWARDED

Miss., Charleston—Patterson Bayou D. D., Tallahatchie Co., 13 mi. levee, approximately 540,000 cu.yd. levee work and 84,000 cu.yd. excav., to W. E. Callahan Constr. Co., 506 Olive St., St. Louis, Mo. Noted Jan. 22.

O., Cleveland—City, dredging Cuyahoga River, to Great Lakes Dredge & Dock Co., Williamson Bldg., $69,675.

Neb., Dakota City—Omadi D. D., c/o A. Nelson, secy., 2 mi. ditch, 20 ft. wide on bottom, approximately 102,000 cu.yd. for dragline, to Callahan-Walker, 1106 First Natl. Bank Bldg., Omaha, at $0.087 per cu.yd. Noted Feb. 19.

Mo., Glasgow—W. A. Labus, secy. Porterfield Levee Dist., approximately 11 mi. levees, 120,000 cu.yd. excav., to C. J. Reise, Kansas City, Kan., $0.22 per cu.yd. and 3 months or less. Noted Feb. 19.

Calif., San Francisco — State Harbor Comn., Ferry Bldg., furnishing and driving seven hundred and thirty 71 to 75 ft. green piles in connection with rock levee and fill for Islais Creek Reclamation Project 2, to Healy-Tibbitts Constr. Co., 64 Pine St., $24,600. Noted Feb. 12.

Streets and Roads

PROPOSED WORK

Mass., Lakeville — Bd. Selectmen plans reconstructing of Precinct St., and repairing various other streets. $30,000. Engineer not selected.

Mass., Medford — Plans curbstones and granolithic sidewalks on principal main streets. $62,000. F. R. Charnock, Medford Bldg., city engr.

Mass., Winthrop — Town Bd. Selectmen plans resurfacing Bowdoin St. from Magees Corner to Oakland St., and repairing and widening various other streets. $25,000. Engineer not selected.

N. J., Burlington—Bd. Freeholders Burlington Co. plans concrete paving ½ mi. Jacksonville Rd. $33,750. H. B. Smith, Mt. Holly, engr.

Pa., Clearfield—Boro Council soon takes bids brick or concrete paving 6,000 lin.ft. Bigler and Turnpike Aves., Daisy and 2nd Sts., 20 ft. $70,000. E. W. Hess, Murray Bldg., engr.

Pa., Pittsburgh—Making plans repaving Bway., Jancey, East Carson, Charles, Sarah and Hobart Sts., Preble and Wylie Aves. $361,000. City, c/o Dept. Pub. Wks., City-County Bldg., engrs.

Fla., Manatee — Plans grading, paving and curbing, Tallout St. $25,000, Church St. $25,000, Jackson St. $25,000, Market St. $25,000; portions of Graham, Esplanade and Academy Sts. $43,424, Braden and Riverside Sts. $25,000, South St. $25,000, Central St. $25,000, Curry St. $25,000, Market and Riverside Sts. $25,000, Magnolia and Spring Sts. $25,000, Castle and Spring Sts. $25,000. A. Orebaugh, Manatee, engr.

Miss., Woodville — Wilkinson Co. plans grading and gravel surfacing 30 mi. Woodville Louisiana Highway, Ft. Adams, Lower Natchez and Perry Creek Rds., 18 ft. $100,000. W. L. Hays, co. clk. This corrects report in Feb. 26 issue.

La., Baton Rouge—Rejected bids Dec. 16, grading, curbing and gravel surfacing, etc., 94,000 sq.yd. various streets. J. W. Billingsley, City Hall, engr. Noted Jan. 8.

Tennessee — Hawkins Co. (Rogersville) and State Dept. Hys. & Pub. Wks., Nashville, plan grading, probably limestone macadam surfacing, etc., 10 mi. road from point near Rogersville-Pressmons Home Rd. J. G. Greveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 4 mi. Millington-Tipton Co. line Rd., Shelby Co. J. G. Creveling, highway engr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving approximately 15 mi. Lee Highway from Cleveland to Charleston, Bradley Co. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 25 mi. LaFollette-Kentucky State line Rd., Campbell Co. J. G. Creveling, highway comr.

Tenn., Dyersburg—Dyer Co. voted $1,000,000 bonds, constructing and paving roads. Noted Feb. 19.

Tenn., Union City—Obion Co. plans election to vote on bonds, surfacing approximately 138 mi. various roads.

O., Canton—Stark Co. plans improving 3 mi. Canton-Alliance Rd., 14 ft. $60,000-$65,000. A. Wise, Canton, co. engr.

O., Canton—Bd. Control takes bids in spring, improving about 1 mi. DeWalt Ave. S. W., 14 ft. $40,000, Dewey Pl., S. W. $30,000, 0.75 mi. 13th St. N. W., 20 ft. $25,000-$45,000, and 0.5 mi. Smith Ave., 25 ft. $30,000. W. E. Sarver, City Hall, engr.

O., Cincinnati — Plans granite curbing, sidewalks and repaving 1,650 ft. Hamilton Ave., 100 sq.yd. vitr. brick, 7,200 sq.yd. 4 in. granite block and 60 sq.yd. asphalt. $69,645. K. Krug, City Hall, engr.

O., Cleveland Heights (Warrensville P. O.)—Cuyahoga Co. (Cleveland) takes bids in spring and summer, paving 15 mi. of Sylvanhurst, Henderson, Shedbourne, Tremont, Kirkwood, Cummings, Grosvenor, Staunton, Antisdale, Yellowstone, Northampton, Roanoke, Englewood, Oxford, Lowell, Cedar, Ardmore, Elmwood, Erieview, Navahoe, Pomona, Rosemond, Sylvania, Allston, Superior, Medford, Nobleshire, Randolph, Vineshire and Revere Rds. $967,470. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Columbus — Making plans grading, laying water services and sewer connections and paving 518 ft. alley north of Hanford St., 16 ft., brick $3,546, concrete $3,131; 1,546 ft. allies west of Bruck St. and Champion Ave., also north of Wilber and 8th Aves., all foregoing 20 ft., brick $12,368, concrete $10,909; 416 ft. alley north of Main St., 25 ft., brick $4,216, concrete $3,751; 4,282 ft. Kelton and Thurman Aves., both 30 ft., brick $85,288, asphalt $68,983. R. H. Simpson, city engr.

O., Columbus — Making plans grading, laying water services and sewer connections and paving in 3,572 ft. 2nd and Kelton Aves., 30 ft., brick $67,883, asphalt $52,803; also laying 9,172 ft. 8 and 10 in. sanitary sewers etc. in Linden Ave., and alley north of Sullivan Ave., $22,467. R. H. Simpson, city engr.

O., Dayton—Montgomery Co. plans asphalt, brick, concrete or macadam paving 800 ft. Evergreen St., $17,500; and macadam or rolled gravel surfacing 5,500 ft. Kings Highway, $22,500, both in Harrison Twp. W. A. Pease, co. surv.

O., Dayton—Plans improving Eaton Ave., 12,000 sq.yd. concrete, 7,000 lin.ft. each concrete curb and gutter, etc., $79,943; sheet asphalt resurfacing 65,000 sq.yd. East and West 3rd Sts., $95,285. J. F. Hale, city engr.

O., Dennison—City soon takes bids improving Stillwater Ave. $30,000. Tuscarawas Co. (New Philadelphia) appropriates $12,000 toward cost.

O., Medina — Wayne Co. takes bids in spring improving 2.5 mi. Rittman-Wadsworth Rd., 22 ft. $75,000.

O., St. Clairsville — Belmont Co. soon takes bids bituminous concrete paving 4 mi. St. Clairsville-Glencoe Rd. $80,000. P. Murphy, St. Clairsville, engr.

O., Youngstown—Bd. Control soon takes bids resurfacing section of Youngstown-New Bedford Rd. $35,000. City will pay 25% of cost. G. Turner, city engr.

Ill., Knoxville — Soon takes bids brick paving 21,905 sq.yd. Main St. F. M. Connolly, 432-33 Peoples Trust & Savings Bank Bldg., Galesburg, engr.

Ill., Maywood—Soon takes bids grading, hard-surfacing, etc., 10th and 11th Aves., etc. $140,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Wis., Oconomowoc—Making plans paving 12,000 sq.yd. Hickory and 2nd Sts., various types material considered. To exceed $25,000. J. A. Stemper, City Hall, engr.

Kan., Hays—Ellis Co. made plans grading, bridging, etc. 10.02 mi. Federal Aid Project 286-A and B, 28 ft. G. L. Campbell, Salina, consult. engr.

Kan., Kingman—Making plans grading and surfacing 4 blocks Main St., 76 ft. $50,000. C. A. Haskins, Finance Bldg., Kansas City, Mo., engr.

Mo., Clayton—St. Louis Co. election Apr. 7, $5,000,000 bonds hard surfacing various roads. R. Jablonsky, Clayton, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids granite curbing, warrenite on concrete paving 5,275 sq.yd. Milentz St. $25,600; asphaltic concrete paving 840 sq.yd. Kuhs Pl. $6,550; granite curbing and warrenite paving 2,965 sq.yd. Eller St. $24,400; granite curbing and asphaltic concrete paving 1,750 sq.yd. Pence St. $9,300; concrete curbing, guttering and Willite paving 965 sq.yd. Gardenville St. $7,200; concrete curbing and paving 1,645 sq.yd. Alabama St. $8,460; asphalt paving 1,475 sq.yd. Nebraska St. $5,400; Willite paving 5,745 sq.yd. Shenandoah St. $22,800; brick or vibrolithic paving 4,670 sq.yd. Shenandoah St. $29,400. W. W. Horner, 300 City Hall, engr.

Tex., Anson—Jones Co. takes bids after Mar. 20, hard surfacing 30 mi. state highway across county, 18 ft. $600,000. F. E. Devlin, 614 Bitting Bldg., Wichita, Kan., engr. Noted Mar. 5.

Tex., Barstow — Ward Co. rejected bids grading, surfacing and bridging 4.61 mi. Federal Aid Project 391-B. $28,000. S. S. Posey, Pecos, engr. Noted Feb. 26.

Tex., Cleburne—Making plans asphaltic concrete paving 8 blocks Caddo St. $25,000. J. Hughes, city secy. Engineer not announced.

Tex., Cuero—De Witt Co. making plans improving Cuero-Westhoff Rd. $300,000. State Hy. Dept., Austin, appropriates two thirds of cost. S. Kulawik, Cuero, judge. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs.

Tex., Ft. Worth—Plans 11 mi. highway to Lake Worth, 18 ft. Right-of-way to be donated by property owners. D. L. Lewis, City Hall, engr.

Tex., Gonzales—Gonzales Co. plans paving road through entire county. $260,000. State Hy. Dept., Austin, appropriated two thirds of cost. Address County Commissioners.

Tex., Hondo—Medina Co. making plans caliche surfacing 3 mi. State Highway 27, 15 ft. $25,000. Walton & Arneson, Gunter Bldg., San Antonio, engrs.

Tex., Houston—Election Apr. 13, $300,000 bonds (city's portion) for macadam, gravel and shell paving various streets; $750,000 bonds permanent paving various streets, and $500,000 bonds roadways on 2 sides Buffalo Bayou to Turning Basin. O. F. Holcombe, mayor.

Tex., San Angelo—Election Apr. 1, $80,000 bonds permanent paving Oakes St. Address mayor.

Okla., Hartshorne — Plans grading and concrete surfacing 11,600 sq.yd. Pennsylvania Ave. $45,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr.

Okla., Kingfisher — Kingfisher Co. defeated $800,000 bonds surfacing Meridian Highway. Will hold another election for same latter part of this year. J. M. Page, Capitol Bldg., Oklahoma City, engr. Noted Jan. 22.

Okla., Oklahoma City—Oklahoma Co. rejected bids grading and surfacing 4.945 mi. road from point northeast of Edmond to Logan Co. line, Federal Aid Project 130-B and C. $155,000. Noted Jan. 15.

Okla., Pawhuska—Plans grading, concrete curbing and paving Revard St. and 4 alleys, 2,600 sq.yd. sheet asphalt and 3,660 sq.yd. concrete. $28,430. J. M. Buckley, Pawhuska, engr.

Okla., Stillwater—Plans grading and concrete surfacing 7 blocks 5th, 7th, 8th and Husband Sts., Dist. 39, 24 ft. $28,800. K. R. Fellows, Stillwater, engr.

Colo., Denver — Plans grading, curbing and surfacing South Denver Paving Dists. 18, 19 and 20, each ½ mi. square. A. K. Vickery, City Hall, engr.

N. M., Tucumcari — Made preliminary plans paving various streets. $150,000. F. E. Devlin, 614 Bitting Bldg., Wichita, Kan., engr.

Wash., Bothell — City Clerk takes bids about Apr. 3, concrete paving 5 blocks Bothell Way, Main and 2nd Sts. $26,000. C. E. Wilkins, Bothell, engr.

Wash., Chehalis — City Council takes bids about Apr. 1, paving Vine St., Maryland, New York and Ohio Aves. E. G. Sturdevant, Chehalis, engr.

California — State Hy. Comn., Sacramento, plans reconstructing and widening 6 mi. highway between Galivan and Capistrano, Orange Co. $50,000. R. M. Morton, Sacramento, highway engr.

Calif., Coronado — Plans oil macadam paving streets east of Orange Ave. To exceed $25,000. T. J. Allen, city engr.

Calif., Long Beach—Plans improving approximately 8 mi. Pacific Ave., Livingstone Dr., East Ocean Blvd., Hill, Anaheim, 1st and 3rd Sts. R. D. Van Alstine, city engr.

Calif., Los Angeles—Plans improving approximately 20 mi. streets in Sawtelle Dist. $500,000 or more. H. A. Van Norman, City Hall, engr.

Calif., Los Angeles — Soon takes bids curbing, guttering, paving, etc., Ogden and Kingsley Drives, Fremont, 40th, Valencia, Roscoe and Tremont Sts., 37th, 56th, Cabrillo, Hyperion, Belmont, Franklin and Guordia Aves., and alleys south of Oliver St. and west of Mesa St. H. A. Van Norman, city engr.

Calif., Los Angeles—Making plans and takes bids about Mar. 16, curbing, guttering, sheet asphalt and asphaltic macadam paving Goldwin Terrace, Santa Monica Blvd., Citrus, Ascot, 5th and Lecouvreur Aves., Yucca, O'Farrell, Nolden and Rinehart Sts. $100,000. H. A. Van Norman, City Hall, engr.

Calif., Monterey—Plans grading and paving streets in "New Monterey." $30,000 or more. H. D. Severance, city engr.

Streets and Roads (Continued)

Calif., Pomona—Plans grading, graveling and oiling 5 mi. various streets in southwest section. F. C. Froehde, city engr.

Calif., Pomona—Making plans grading, graveling and oiling streets in southwest section of city. To exceed $25,000. F. C. Froehde, city engr.

Calif., San Anselmo—City Trustees received no bids improving streets in Morning Side Court 2, 9,200 cu.yd. grading excav., 88,740 sq.ft. grading surface, and 5 in. concrete paving, etc. To exceed $25,000. J. J. Jessup, city engr. Noted Feb. 19.

Calif., San Francisco—Plans improving Market St. extension $75,000; Harding Memorial Blvd. through Lincoln Park $50,000; Cortland Ave. between Folsom and San Bruno Aves. $10,000 and completing Marine Blvd. $60,000. M. M. O'Shaughnessy, City Hall, engr.

Calif., San Luis Obispo—San Luis Obispo Co. plans improving San Simeon-Carmel Highway. $175,000-$200,000.

Calif., Santa Rosa—Sonoma Co. made plans constructing 12.66 mi. Monte Rio Highway via Occidental and Freestone to connect with Sebastopol-Freestone Highway, 16 ft., asphaltic macadam with permanent header boards and 2 ft. shoulders on each side, 20,000 cu.yd. crushed rock, etc., Ashley & Clow, San Anselmo, engr.; also 5 mi. Santa Rosa-Guerneville Highway to connect Santa Rosa with Sebastopol-Guerneville Highway, in Rd. Dist. 4, 2 in. Willite on 2 in. asphaltic concrete, $100,000, R. P. Smith, Santa Rosa, engr.

Calif., Venice—Rejected bids improving Leona Blvd. between Washington Blvd. and Grand Canal, 388,000 sq.ft. 7 in. concrete paving, 6,000 lin.ft. heavy curb, 16,000 sq.ft. concrete sidewalks, etc. $125,000 or more. Will readvertise. H. D. Chapman, city engr. Noted Feb. 19.

BIDS DESIRED

Rhode Island — Mar. 25, by State Bd. Pub. Roads, State House, Providence, bituminous macadam (penetration method) paving, etc., Contrs. 2501, 2502 and 2503; adv. E. N.-R. Mar. 12.

N. Y., New York—Mar. 16, by J. Miller, pres. Manhattan Boro., repaving 23rd St., 1st, 3rd and 7th Aves. and widening and repaving 32nd and 41st Sts.

N. Y., New York—Mar. 19, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., granite block paving East 138th St., Kingsbridge Rd. from Fordham Rd. to East 194th St., and Kingsbridge Rd. from Jerome to Sedgwick Aves.; asphalt block repaving Southern Blvd.; sheet asphalt paving Clifford Pl., Eastburn, Grant, Nelson and Shakespeare Aves.

N. Y., St. George—Mar. 16, by J. A. Lynch, pres. Richmond Boro., Boro Hall, granite block repaving Bway. $25,000.

N. Y., St. George — Mar. 19, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and concrete paving Hylan Blvd.

N. J., Cape May—Apr. 1, by Bd. Chosen Freeholders Cape May Co., sand or gravel shoulders on Meadow Sect. of Sea Isle Blvd., Dennis Twp. R. P. Smith, Marmora, co. engr.; adv. E. N.-R. Mar. 12.

N. J., Deal—Mar. 27, by Ocean Twp., at Oakhurst, concrete surfacing Roseld Ave., here. J. W. Seaman, 192 Bway., Long Branch, engr.; adv. E. N.-R. Mar. 12.

Pennsylvania—Mar. 27, by State Dept. Hys., Harrisburg, constructing 11 projects, 40 mi. in 8 counties. P. D. Wright, secy. highways; adv. E. N.-R. Mar. 12.

Pa., Kingston—Mar. 30, by Boro Council, at Boro Bldg., South College Ave., repairing curb and resurfacing on present brick, etc., various streets. F. C. Wintermute, 404 Second Natl. Bank Bldg., Wilkes-Barre, boro engr.; adv. E. N.-R. Mar. 12.

Pa., Reading — Mar. 18, at office City Clerk, improving Lancaster Ave. and Morgantown Rd. (a) 5,016 sq.yd. plain 6 in. concrete base course, 10,500 sq.yd. 6 in. concrete base course, 10,500 sq.yd. 6 in. concrete base course with submerged curbs, 600 sq.yd. 8 in. rein.-con. base course with submerged curbs (b) constructing base courses as designated above, surfacing with 3 in. sheet asphalt (1½ in. binder, ½ in. wearing surface) (c) 5,016 sq.yd. plain 6 in. concrete base course, 10,500 sq.yd. plain 9 in. one course concrete pavement with submerged curbs, 600 sq.yd. 11 in. reinforced one course concrete pavement with submerged curbs, each of these three alternates are supplemented with various other items, incl. 13,844 cu.yd. excav., 10,051 lin.ft. concrete tangent and circular combination curb and gutter, 48,275 sq.ft. one course concrete sidewalk. E. C. Weber, city engr.

Pa., Williamsport—Mar. 20, by City Council, City Hall, brick, sheet asphalt, rein.-con. or other approved types paving 32,010 sq.yd. West 4th and Washington Sts. L. Mussina, city engr.

Maryland — Mar. 24, by State Roads Comn., 601 Garrett Bldg., Baltimore, concrete paving 8 sections of road in Anne Arundel, Harford, Queen Annes, Caroline, Somerset, Worcester, Wicomico and Frederick Counties. J. N. Mackall, chn.; adv. E. N.-R. Mar. 12.

Md., Hagerstown—Mar. 31, by Bd. Water Commissioners, 118 West Washington St., constructing Potomac River intake, low service pump pit, and suction well, etc. W. P. Lane, pres.; adv. E. N.-R. Mar. 12.

Virginia—Mar. 26, by State Hy. Comn., Capitol Sq., Richmond, improving roads and building bridges in Route 33, Project F-118-A, Roanoke Co.; Route 33, Project 118-B, Roanoke and Franklin Counties; Route 33, Project F-118-C, Franklin Co.; Route 35, Project F-145-D, and Route 35, Project F-145-F, both Sussex Co.; Route 33, Project F-169-A, Botetourt Co.; Route 14, Project F-259-A, Pittsylvania Co.; Route 20, Project S-323-C, Charlotte Co.; Route 31, Project F-347, Stafford Co.; Route 24, Project S-385, Greenville Co.; and Route 17, Project S-391, Rockbridge and Bath Counties. C. S. Mullen, ch. engr.; adv. E. N.-R. Mar. 12.

W. Va., Huntington—Mar. 16, by Bd. City Comrs., grading, surfacing, etc., Washington Blvd. from Saltwell Rd. to Arlington Blvd. and Washington Blvd. from Norway Ave. at Olive St. to Saltwell Rd., Arlington Blvd., Olive St., South Terrace, Avondale Rd. and St. Louis Ave. A. B. Maupin, city engr.

S. C., Kingstreet—Mar. 18, at office Bd. Comrs. Williamsburg Co., grading, sand clay surfacing, etc., 11,238 cu.yd. State Route 411, Federal Aid Project 239. J. M. Martin, Courthouse, Florence, engr.

S. C., Walterboro — Mar. 24, at office Colleton Co. Rd. Comn., grading and sand clay surfacing 11.7 mi. State Route 64, State Project S-574, and 18 mi. State Routes 321 and 32, State Project S-532. A. T. Brown, Scovill Bldg., Orangeburg, engr.

Miss., Hattiesburg—Mar. 17, by Comrs. Paving Dist. 1, Forest Co., rein.-con., brick, warrenite, bitulithic, sheet asphalt or Texas asphaltic surfacing 137,425 sq.yd. Paving Dist. 1, $250,000. J. L. Wheless, 610 Adaline St., ch. engr.

Miss., Louisville—Mar. 24, by A. A. McNeel, city clk., grading, brick or asphalt on stone or plain concrete surfacing, etc., 15,000 sq.yd. various streets. P. A. Livingston, Louisville, engr. Noted Dec. 18.

O., Akron—Mar. 30, by W. F. Peters, dir. Pub. Serv., grading, curbing and vitr. brick paving 4,035 sq.yd. Avon St. $25,000, 1,720 sq.yd. South Walnut St. $13,500; grading, curbing, laying sidewalks and vitr. brick paving 990 sq.yd. Fairfield Ave. $9,500, 1,500 sq.yd. Robinette and Luedella Courts $11,500, 575 sq.yd. Courtney Pl., et al. $6,600, and 11,525 sq.yd. North Cass Ave. $80,000; grading and sheet asphalt resurfacing 5,000 sq.yd. Bowery St. $41,000; grading and laying 6,100 sq.yd. 4 in. concrete sidewalks on Hudson Ave. $5,500, 13,500 sq.ft. Julien Ave. $6,400; grading concrete gutters, walks and cindering 630 cu.yd. Sherman and Baird Sts. $7,500, and 200 cu.yd. Bina Ave. $2,500; grading, laying sidewalks and cindering 680 cu.yd. Alexander St. $8,500; grading, curbing, laying sidewalks, resurfacing and sheet asphalt paving 860 sq.yd. North Cass Ave. $6,500; grading, paving, repaving and resurfacing Wooster Ave., 320 sq.yd. vitr. brick and 2,400 sq.yd. sheet asphalt, $10,000. E. A. Kemmler, 300 Delaware Bldg., engr. Noted Sept. 25, Jan. 8 and Mar. 5.

O., Columbus—Mar. 17, by W. H. Duffy, dir. Pub. Serv., grading, laying water services, sewers and paving, 600 ft. Pearl St., 12 and 20 ft., brick $4,714, asphalt $4,170; 957 ft. Hamilton Ave., 23 and 30 ft., asphalt $11,261; 6,594 ft. 17th Ave., 30 ft., brick $88,120, asphalt $71,400; 878 ft. Ann St., 24 ft., brick $13,845, asphalt $10,672; 2,181 ft. Cleveland Ave., 46 ft., brick $41,599, asphalt $33,109; 3,000 ft. Northwest Blvd. 100 ft., asphaltic concrete $91,257, and 726 ft. 2nd alley west of 4th St., 20 ft., brick $5,528, concrete $4,398; also 1,580 ft. sanitary sewer in Frebis Ave., $3,253.

O., Dayton—Mar. 19, by Comrs. Montgomery Co., macadam, concrete, brick or asphalt paving about 25,000 sq.yd. Pershing Dr., Pomeroy, Huron, Fleetfoot, Kolping, Hanna, South Elsemere and Naverth Aves. $100,000. W. O. Pease, Dayton, co. surv.

Indiana—Mar. 14, by C. Gray, engr. State Hy. Dept., Indianapolis, concrete paving 45,427 sq.yd. Anderson-Marion Rd. and 150,240 sq.yd. Pendleton Pike, Pendleton Pike, Madison Co.; 70,438 sq.yd. Anderson-Muncie Rd., Delaware Co.; 96,094 sq.yd., Louisville Rd., Jackson Co.; 63,546 sq.yd. Pendleton Pike, Hancock Co.; 101,793 sq.yd. Elkhart-Middlebury Rd., Elkhart Co.; 52,648 sq.yd. Anderson-Marion Rd., Grant Co.; 110,123 sq.yd. Connersville-Cambridge City Rd., Fayette Co.; 60,161 sq.yd. Anderson-Munice Rd., Madison and Delaware Counties; 74,082 sq.yd. Anderson-Marion Rd. Madison and Grant Counties.

Ind., Crown Point—Mar. 16, by C. K. Wallace, engr., Crown Point, grading and graveling 12.5 mi. Dedelow Rd. $130,700, 13.2 mi. Aubry Rd. $143,000, and 12.2 mi. Chapman Rd. $131,000, all 24 ft., for Lake Co. Noted Mar. 5.

Ind., Elkhart — Mar. 16, by Bd. Wks., asphalt paving 14,884 sq.yd. Vine St., $38,700; and 10,692 sq.yd. Bower Rd., $27,800. H. J. Weaver, city engr. Noted Mar. 5.

Ill., La Grange—Mar. 16, by J. A. Alten, city secy., City Hall, grading curbing and concrete surfacing 14,000 sq.yd. various streets.

Ia., Indianola—Mar. 23, by City, about 36,000 sq.yd. surfacing and 27,000 sq.yd. resurfacing various streets. $140,000. E. M. Wilson, city clk.; adv. E. N.-R. Mar. 12.

Wisconsin—Mar. 18, by State Hy. Comn., at Office 2, 208 Stephenson Bldg., Milwaukee, improving Fond du Lac-Oshkosh Rd., Federal Aid Project 364, Fond du Lac Co., 5,211 cu.yd. earth and 2,797 cu.yd. borrow excav., 21,355 sq.yd. concrete surfacing, 8,500 sq.yd. widening 9 to 20 ft., 16,760 lbs. reinforcing in pavement, 9,000 bbls. cement in place, etc. J. T. Donaghey, state highway engr.

Wis., Columbus — Mar. 19, by W. H. Pietzner, city clk., 13,088 sq.yd. various types paving, 30,480 lin.ft. combined concrete curb and gutter on various streets. W. F. Reichardt, North Main St., Watertown, engr. Noted Dec. 11.

Wis., Hudson—Mar. 16, by G. H. Tappins, pres. Bd. Pub. Wks., rein.-con., vibrolithic concrete, asphaltic concrete or vitr. brick paving approximately 9,855 sq.yd. Vine and Locust Sts. $27,000. L. P. Wolff, 903 Globe Bldg., St. Paul, Minn., engr.

Wis., Menasha — Mar. 17, by J. F. De Caro, city clk., curbing, guttering and rein.-con. paving approximately 10,556 sq.yd. Tayco and Elm Sts. A. E. McMahon, City Hall, engr. Former bids rejected. Noted Mar. 5.

Wis., Milwaukee — Mar. 17, by Central Bd. Purchases, D. W. Hoan, chn., 2,500 tons 6, 8 and 12 in. Class "C" c.i. pipe also two 54 in. gate valves, f.o.b. Milwaukee at Center St. team track of the Chicago, Milwaukee & St. Paul R.R., to Water Dept.

Wis., Waupun — Mar. 23, by Bd. Pub. Wks., improving various streets, 16,640 sq.yd. vibrolithic concrete, asphaltic concrete or Warrenite-bitulithic concrete, 11,130 ft. concrete curb and gutter, 5,760 cu.yd. excav. E. B. Parsons, Jefferson, engr. Noted Feb. 26.

Minn., Duluth—June 1, by W. H. Tischer, city comr., 30,500 sq.yd. grading and concrete paving one side of Grand Ave. S. $106,986. J. Wilson, city engr.

Minn., St. Paul—Mar. 17, by H. W. Austin, city purch. agt., improving Beech St., 803 sq.yd. brick on 5 in. concrete and 7,688 sq.yd. asphalt concrete, asphaltic concrete paving; asphaltic concrete paving 9,138 sq.yd. Carroll St.; sheet asphalt paving 7,340 sq.yd. Cromwell and Bayless Aves.; and asphaltic concrete paving 3,875 sq.yd. Montrose Pl. G. M. Shepard, city engr.

Kan., Clarksburg—Mar. 23, by C. N. Parrish, clk. Harrison Co., Court St., grading 1.25 mi. Meadow Brook-Bridgeport Rd., 1.24 mi. Peoria-Wyatt Rd., 1.75 mi. Mt. Clair-Lost Creek Rd., 2.5 mi. Coplin Church-Tenmile-Jarvisville Rd., 2 mi. Buckhannon Pike from Turkey Run to Quiet Dell, 1.5 mi. Saltwell-Shinns Rd., and 1.25 mi. Arthur Rhodes-Kinchloe Creek Rd.; bituminous macadam hard-surfacing 3,600 ft. and concrete surfacing 3.75 mi. Laura Lee-Sardis Dist.-Dola Rd.; grading and concrete surfacing 0.25 mi. Green and Murray Sts., Union Heights 1.

S. D., Sioux Falls—Mar. 23, by City, concrete bituminous concrete, sheet asphalt or vibrolithic concrete paving about 19,199 sq.yd. 4th St., Cliff, Walts and Fairfax Aves. $75,000. W. C. Leyse, city aud.

Mo., Sedalia—Apr. 6, by N. L. Nelson, city clk., City Hall, grading, curbing and concrete paving 3,100 sq.yd. Vermont St., 5,100 sq.yd. Wilkerson St., 3,500 sq.yd. 6th St., and 4,500 sq.yd. 7th St. C. O. Manker, City Hall, engr.

Ark., Pine Bluff — Mar. 20, by Comrs. Paving Dist. 72, J. S. Purnell, chn., grading and 6 in. rein.-con. or vibrolithic surfacing 1,480 ft. Annex 1, incl. 1,480 ft. curb and gutter and 820 ft. 12 in. storm

Streets and Roads (Continued)

sewers, etc.; and 5,912 sq.yd. Annex 2, 3,662 ft. curb and gutter, 408 ft. 12 and 27 in. storm sewers, etc. Guest Eng. Co., 329½ West Main St., engrs. Noted Feb. 19.

Tex., El Paso—Mar. 24, by E. B. McClintock, judge El Paso Co., grading, surfacing with extensions to pavement, concrete and block base with 1 or 1½ in. bituminous topping, 15.62 mi. State Highway 1, Federal Aid Project 439-E, 17 and 30 ft. $403,740 incl. 10% for engineering and contingencies. F. E. Wilson, El Paso, co. engr. Noted Feb. 26.

Tex., Munday—Taking bids 3 in. brick or 7 in. concrete paving 6 blocks various streets. $25,000. Montgomery & Ward, City Natl. Bank Bldg., Wichita Falls, engrs. Noted Jan. 29.

Tex., Post City—R. N. Smith, city secy., taking bids paving 30,000 sq.yd. various streets. $50,000 bonds voted. Elrod Eng. Co., 3124 Main St., Dallas, engrs. Noted Jan. 22.

Tex., Sinton—Mar. 27, by F. M. Percival, engr., Rockport, shell surfacing 6.38 mi. State Highway 67, 16 ft., for San Patricio Co. $40,000. Noted Mar. 5.

Okla., Cordell—Mar. 20, by O. Brown, city clk., grading and concrete surfacing 10,200 sq.yd. Main St. $35,247. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 19.

Okla., Pauls Valley—Mar. 16, by J. F. Pratt, city clk., grading and graveling 14,500 sq.yd. Pecan & Cherry Sts. $27,493. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 5.

Washington — Mar. 17, by State Hy. Comn., Olympia, concrete paving, incl. rein.-con. slab bridge on 2.1 mi. State Rd. 1, (Pacific Highway) from Centralia to Chehalis, Lewis Co. J. Allen, Olympia, engr.

Washington—Mar. 31, by State Hy. Dept., Olympia, concrete paving 3 mi. Pacific Highway from Allen to Burlington, Skagit Co. and 6.9 mi. from Bellingham to Ferndale, Whatcom Co.; grading and surfacing 3 mi. Natl. Park Highway from Mill Creek to Mayfield, Lewis Co.; paving 1.7 mi. Natl. Park Highway from Taxwax to Ohop Hills, Pierce Co.; widening present pavement by paving 9 ft. Pacific Highway between Ponders, Mountain Rd. Cut-off and Dupont at Camp Lewis, Pierce Co.

California—Mar. 23, by State Hy. Comn., Sacramento, widening with concrete shoulders road from point 2 mi. north of Fresno to Herndon, Fresno Co., 25 cu.yd. structure excav., 3,340 cu.yd. concrete paving, 45 cu.yd. concrete in structure, 3,800 lbs. reinforcing, 50 cu.yd. remove concrete. R. M. Morton, Sacramento, highway engr.

Calif., Sacramento—Mar. 23, by Supervs. Sacramento Co., approximately 3,000 cu.yd. concrete paving road along Sacramento River from Grand Island Bridge to Vorden. $40,000. C. W. Deterding, Jr., Sacramento, co. engr.

Ontario—Mar. 23, by Dept. Pub. Wks. & Highways, Toronto, concrete or asphaltic concrete paving 7.62 mi. road from Bowmanville to east side Lot 17, Contr. 11, Clarke Twp.; asphalt paving 4.8 mi. road from Trenton easterly, $150,000; concrete, bituminous penetration or asphaltic concrete paving 3.92 mi. road from Prescott westerly, $125,000; macadamizing 3.53 mi. road from Bloomfield northerly $40,000 and 4.48 mi. road from Moulinette westerly, $50,000; bituminous penetration or asphaltic concrete paving 4.08 mi. road from Prescott to point north of Johnstown, $50,000. C. H. Nelson, Ottawa, ch. engr.

Ont., Williamstown—Mar. 18, by W. T. Bailey, twp. clk., paving 1,800 yd. Johnstone Rd. and 1,200 yd. Rae and Paragon Rds.

BIDS RECEIVED

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, Mar. 4, from Uvalde Asphalt Paving Co., 1 Bway., New York City, asphalt paving Barbey St. $3,383, Newport St. $4,315, Stone Ave. $9,893, from Cranford Co., 52-9th St., Bay 10th St. $7,270, Gatling Pl. $6,822, 65th St. $16,109, 73rd St. $10,364, 76th St. $7,338, from Cleveland Trinidad Paving Co., Flushing, Dumont Ave. $3,507, from Brooklyn Alcatraz Co., 407 Hamilton Ave., East 10th St. $4,522, East 35th St. $3,851, New York Ave. $10,834, West 37th St. $9,900, 10th Ave. $12,162; from Carberry & Block Corp., 45 South 9th St., grading curbing and flagging, Bedford Ave. $1,558, East 35th St. $1,398, 62nd St. $3,989, from Grimm Contg. Co., 170 McKinley St., East 9th St. $1,644, from W. J. McHale Contg. Co., 1250 Jefferson Ave., East 10th St. $199, from Harrison & Bernhardt Co., Central Ave., Brooklyn Ave. $3,855. Noted Feb. 26.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Mar. 5, granite block repaving Park Ave. from Leonard Paving Co., 233 Bway., $134,942; granite block repaving East Tremont Ave., and grading, curbing and sidewalks on Grand Ave., from Asphalt Constr. Co., 208 Bway., $384,995 and $81,841 respectively; grading, curbing, sidewalks, etc., on Davidson Ave., from Interboro Asphalt Co., 2306 Creston Ave., $71,715. Noted Feb. 26.

N. Y., Peekskill—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, Feb. 16, grading and improving State Parkway from Annsville Creek opposite State Camp Dock to Albany Post Rd., here, from J. H. Gordon, 91 North Pearl St., Albany, Alternate A $83,644, Alternate B $83,740. Noted Jan. 22.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Mar. 3, bituminous concrete repaving Johnson Ave., from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $29,158. Noted Feb. 26.

New Jersey—State Hy. Dept. Trenton, concrete paving 28,600 sq.yd. Route 2, Sect. 4A, Burlington cut-off, Burlington Co., from Freeholder Constr. Co., Freehold, $93,344, engrs. est. $93,334; 24,856 sq.yd. Route 4, Sect. 28, Waretown-Barnegat Rd., Ocean Co., from Union Paving Co., 30th and Locust Sts., Phila., Pa., $117,962; 44,127 sq. yd. Route 4, Sect. 27, Cedar Creek-Forked River Rd., Ocean Co., from M. Staub, Pitman, $187,020. Noted Feb. 12.

N. J., Freehold—Bd. Freeholders Monmouth Co., reconstructing 31,081 sq.yd. Matawan-Freneau Rd., Matawan Twp., concrete, from S. S. Thompson, Red Bank, $106,232. Noted Feb. 19.

Pa., Ebensburg — Comrs. Cambria Co., Mar. 3, one course rein.-con. surfacing 11,468 lin.ft. Beaverdale-Lovett Rd., 16 ft., from Vipond, Strite & Moore, Hollidaysburg, $108,110.

Md., Towson — Comrs. Baltimore Co., Courthouse, concrete paving 1 mi. Middletown Rd. and 1 mi. Gaystone Rd., from H. D. Campbells Sons Co., Towson, $56,197. Noted Feb. 26.

O., Cleveland—City improving Summit Rd., 3,300 lin.ft. each stone curbing and 4 in. drain tile gutter, 7,000 cu.yd. earth excav., 6,530 sq.yd. (a) vitr. brick or (b) concrete paving, from Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, (a) $43,353; from Ohio Contg. Co., Hunkin-Conkey Bldg., Cleveland, (b) $35,486. Engrs. est. $50,645.

O., Cleveland—City, paving with (a) asphalt (b) brick (1) East 138th St. (2) East 157th St. (3) East 139th St. (4) Solka Ave. (5) East 105th St. (1 to 5 inclusive), involves 28,050 sq.yd. vitr. brick or sheet asphalt, 14,170 lin.ft. stone curbing, 15,650 lin.ft. 4 in. drain tile gutter, 19,800 cu.yd. earth excav. (6) West 134th St. (7) East 116th St. (8) Champion Ave. (9) Farringdon Ave., (7 to 9 inclusive) involves 10,838 sq.yd. vitr. brick or sheet asphalt, 12,750 lin.ft. stone curbing, 13,420 lin.ft. 4 in. drain tile gutter, 13,780 cu.yd. rock excav. (10) West 137th St. (11) Alabama Court (12) Adelaide Ave. (13) Fidelity Ave. (10 to 13 inclusive) involves 6,925 sq.yd. vitr. brick or sheet asphalt, 4,320 lin.ft. stone curbing, 4,720 lin.ft. 4 in. drain tile gutter, 4,300 cu.yd. earth excav., from Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, (a1) $15,718 (b1) $19,468 (a3) $15,718 (b3) $19,569 (b4) $40,063 (b9) $56,115; from Gould & Maybach, 16311 Saranec Rd. (2) $6,884; from H. G. Herring, c/o Pavers Exch., (a4) $35,744 (a7) $16,865; from Cleveland Trinidad Paving Co., The Arcade, (5) $33,483 (8) $3,077 (a9) $46,100 (12) $3,105 (13) $3,168; from Roehl Bros., 7002 Dennison Ave. (a6) $41,132 (b6) $50,082 (a10) $23,881 (b10) $29,081; from Bentley Bros., 3030 Euclid Ave. (11) $3,710.

O., Cleveland—Cuyahoga Co., improving Edgerton Rd., 22,900 sq.yd. waterbound macadam, 229,000 lin.ft. stone curbing, 22,900 lin.ft. 4 in. drain tile guttering, and 1,400 cu.yd. earth excav., from Hannon Constr. Co., Warren, $84,856. Noted Jan. 22.

Michigan — State Hy. Dept. at office Comrs. Kent Co., Grand Rapids, surfacing 0.964 mi. Alaska Rd., from Davey Paving Co., Batavia, with cement $29,132; from F. Collins, Grand Rapids, without cement $22,285.

Ill., Urbana — Comrs. Champaign Co., Feb. 24, furnishing 2½ m.g. road oil, from J. A. Bateman, Champaign, at $0.0587 per gal.; spreading same on various streets, from Gilmore & Harschbarger, Atwood, at $.095 per gal. Noted Jan. 29.

Wis., Kenosha—C. M. Osborn, city mgr., Feb. 26, improving various streets, 115,000 sq.yd. (a) rein.-con. (b) asphaltic concrete or (c) sheet asphalt paving from White Constr. Co., 68 Wisconsin St., Milwaukee (a) at $2.40 per sq.yd. 58,000 cu.yd. grading $0.35, 75,000 ft. concrete curb and gutter $0.70; from J. Rasmussen & Sons Co., foot of 7th St., Oshkosh (b) $2.22 and (c) $2.43 per sq.yd. Noted Jan. 29.

Kan., Nortonville—Grading and surfacing 14,382 sq.yd. various streets, from Amer. Paving Corp., 1325 Grace St., Omaha, Neb., concrete $43,846; from Kaw Paving Co., N. E. Bldg., Topeka, asphalt $47,121. Noted Feb. 19.

Minn., Faribault—For 80 tons 6 in. and 10 tons 8 in. c.i. pipe, 12 ft. lengths, to Water Dept., from Lynchburg Fdry. Co., Peoples Natl. Bank Bldg., Lynchburg, Va., $50 per ton.

Missouri—State Hy. Dept., Jefferson City, Feb. 28, from M. E. Gilliloz, Monett, grading and 18 ft. concrete surfacing 3.898 mi. St. Louis-Springfield Rd. $62,865, grading 13.548 mi. St. Louis-Springfield Rd. $23,305, both Webster Co.; A. A. Davis & Co., Gr. Exch. Bldg., Oklahoma City, Okla., grading and 18 ft. concrete surfacing 4.869 mi. Kansas City-St. Louis Rd. $68,400, 4.216 mi. Kansas City-St. Louis Rd. $63,794, 18 ft. concrete surfacing 9.659 mi. Kansas City-St. Louis Rd. $127,402, all Johnson Co.; from Western Asphalt Paving Co., 1st and Nebraska Sts., Sioux City, Ia., grading 4.685 mi. St. Louis-Springfield Rd., Franklin Co. $13,904, 18 ft. concrete surfacing 9.737 mi. St. Louis-Springfield Rd. $128,525, both Webster Co.; from Dexter Constr. Co., Dexter, 18 ft. gravel surfacing 4.634 mi. Harrisonville-Pleasant Hill Rd., Cass Co. $34,101, 12 ft. gravel surfacing 2.397 mi. road from Wilhelmina east, Dunklin Co. $15,120; from Robertson-Carmeau Constr. Co., Carruthersville, 18 ft. concrete surfacing 5.595 mi. St. Louis-Springfield Rd., Webster Co. $76,819, from C. H. Atkinson Paving Co., Watertown, S. D., 7.82 mi. St. Joseph-Hannibal Rd., Marion Co. $82,955, from Harrison Eng. & Constr. Co., Kansas City, 9.393 mi. St. Louis-Springfield Rd., Crawford and Franklin Counties, $174,579, from Billets & Oliver Bros., Cincinnati, O., 4.868 mi. Kansas City-St. Louis Rd., Johnson Co. $58,094, from Capitol Constr. Co., 1207 Cherry St., Des Moines, Ia., 3.746 mi. St. Louis-Springfield Rd., Webster Co., $51,828; from Kelly & Underwood, Granby, 18 ft. gravel surfacing 4.315 mi. Harrisonville-Pleasant Hill Rd., Cass Co., $33,693, from H. A. Worman, Perryville, 3.939 mi. road from Mexico east, Audrain Co. $34,587; from Easley Bros., Aurora, 16 ft. gravel surfacing Fairplay-Bolivar Rd., Polk Co., $10,201, from Richmond Constr. Co., Advance, 2.178 mi. road from Malden west, Dunklin Co. $18,886; from Keokuk Quarry & Constr. Co., Keokuk, Ia., grading 7.828 mi. St. Joseph-Hannibal Rd., Shelby Co. $32,090; from D. C. Horton, Ft. Smith, Ark., 5.53 mi. St. Louis-Springfield Rd., Webster Co. $23,383, from G. A. Nichols, Oklahoma City, Okla., 3.205 mi. Kansas City-St. Louis Rd., Johnson Co. $44,231, from Lamereaux Bros. Co., Omaha, Neb., 7.295 mi. Sheridan-Grant City Rd., Worth Co. $60,372; from Gray Constr. Co., Mt. Vernon, Ill., 3.894 mi. road from Macon east and west, Macon Co. $19,719, 4.708 mi. St. Louis-Springfield Rd., Crawford Co. $5,855, from W. R. Larson Constr. Co., Sioux Falls, S. D., 4.659 mi. Kansas City-St. Louis Rd., Johnson Co. $34,541; from A. L. Paterson, Kansas City, 4.868 mi. Kansas City-St. Louis Rd., Johnson Co. $4,566, from Davis Constr. Co., Boonville, 5 mi. Kansas City-St. Louis Rd., Johnson Co. $4,895; from Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., 0.265 mi. Sheridan-Grant City Rd., Worth Co. $5,547; from C. T. Fogel Constr. Co., Jefferson City, 0.35 mi. St. Joseph-Hannibal Rd., Shelby Co. $7,817. Noted Feb. 19.

Mo., Carrollton—Improving West Heidel, East Shanklin, East Lincoln and South Jefferson Sts., from C. F. Brindle, Kansas City, Kan., 1,200 cu.yd. excav. $0.50 per cu.yd., 7,500 ft. curbing $0.50, 11,000 sq.yd. concrete paving $2.45.

Tex., Houston—Harris Co., grading, concrete paving and bridging 6.53 mi. State Highway 6, Federal Aid Project 466 A and D, 20 and 30 ft., from Texas Willite Rd. Constr. Co., 102 Standard Bldg., $177,995. Engrs. est. $275,021. Noted Feb. 5.

Tex., Pearsall—R. E. Killmer, engr. Frio Co., Feb. 25, grading, gravel surfacing and bridging 14.86 mi. State Highway 85, Federal Aid Project 542, 16 ft., from Kelley & Lehr, 503 Barrett Pl., San Antonio, $133,973. Engrs. est. $170,000. Noted Feb. 5.

Wash., Seattle—Bd. Pub. Wks., from McHugh & Coluccio, 517 3rd St. N., improving Whitman Ave. et al., 1,400 lin.ft. a.c. integral curb $0.55 per lin.ft., 6,115 lin.ft. concrete integral curb $0.55, 12,425 sq.yd. 6 in. asphalt $1.67, etc., total CIP $37,498, De Lavaud $37,508, engrs. est. $41,732;

Streets and Roads (Continued)

from R. G. Stevenson, 1327 North 34th St., East 55th St. et al., $10 lin.ft. a.c. integral curb $0.65, 5,250 lin.ft. concrete curb $0.30, 2,600 cu.yd. subgrading $0.60, 9,590 sq.yd. 6 in. concrete $1.60, total $32,118, engrs. est. $35,688.

California — State Hy. Comn., Sacramento, Mar. 2, widening 8.3 mi. highway between Woodland Wye and Woodland, and 4.5 mi. highway between Putah Creek and Davis, Yolo Co., from Kaiser Paving Co., Amer. Bank Bldg., Oakland, $135,904. Noted Feb. 19.

Calif., Glendale—From C. L. Hill, 516 South Glendale Ave., improving Cypress Court, Mariposa and Boynton Sts., 21,630 sq.ft. grading at $0.01 per sq.ft., 12,900 sq. ft. regrading and reoiling $0.04, 21,630 sq. ft. 3 in. macadam paving $0.09, water system total $250, sewers, ornamental lighting system total $4,000; from H. Cornwall, South Glendale Ave., improving Ruberta Ave., 61,714 sq.ft. grading at $0.04 per sq. ft., 31,318 sq.ft. 3 in. macadam paving $0.875, etc.

Calif., Pomona—Paving 5 blocks Garey Ave., from H. Comwell, 120 South Glendale Ave., Glendale, $37,500. Engrs. est. $38,280. Noted Dec. 4.

CONTRACTS AWARDED

Mass., Boston—City, bituminous repairing on any street not under guarantee when ordered by Commissioner from Mar. 1 to Dec. 31, to Central Constr. Co., 228 Southampton St., Roxbury, $102,450. Noted Mar. 5.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. surfacing 7 in. edges and 5 in. center, 34,390 sq.yd. Route 10, Application 1067 and 976, Susquehanna Co., to Lane Constr. Co., Meriden, Conn., $3.22 per sq.yd., total $169,962; grading, etc., 18,843 ft. Route 10, Application 3236, McKean Co., to D. L. Dennis, Smethport, $82,851.

Md., Towson—Comrs. Baltimore Co., concrete paving 1 mi. Middletown Rd. and 1 mi. Gaystone Rd., to H. D. Campbell & Sons Co., Towson, $56,197. Noted Feb. 26.

S. C., Greenville — Greenville Co., 8 in. concrete paving and grading, etc., 4.8 mi. Laurens Rd., 18 ft., to Nichols Constr. Co., Atlanta, Ga., $135,302.

Fla., Bartow — Polk Co., sheet asphalt paving on Florida limerock base Rd. 1, to West Constr. Co., Bartow, $311,850, Rds. 2 to 5 (inclusive) to McDonald Constr. Co., Lakeland, $244,036; Rds., 6 to 8 (inclusive) to Stidham & Hughes Constr. Co., Bartow, $152,451, all in Special Road and Bridge Dist. 11. Noted Feb. 12.

Alabama—State Hy. Dept., Montgomery, **(e. e. means engrs. est.)** crushed stone and gravel surfacing 15.55 mi. Moulton-Courtland Highway, 18 ft., Lawrence Co., to J. Gwin, Empire Bldg., Birmingham, $145,735, e. e. $150,000; sand clay surfacing 10 mi. Georgiana-McKenzie-Conecuh Co. line Rd., 18 ft., Butler Co., to M. M. Bentley, Marion, $104,049, e. e. $105,000; gravel surfacing 18.86 mi. Fayette-New Lexington Rd., 18 ft., Tuscaloosa Co., to Nixon & Phillips, Lineville, $287,036, e. e. $288,000; bituminous macadam surfacing 2.58 mi. Huntsville-Guntersville Rd., 18 ft., Madison Co., to W. H. Pattie, 1566 North 23rd St., Birmingham, $99,177, e. e. $100,000. Noted Jan. 29.

Ohio—Dept. Highways & Pub. Wks., Columbus, to R. Stone Co., 433 Amer. Bank Bldg., grading, bridging and paving 1.87 mi. Sect. "E-1" Lima-Spencerville Rd., Allen Co., bituminous macadam, tar $38,221, 5.979 mi. Sect. "F" Columbus-Cincinnati Rd., Madison Co., tar macadam $118,280, 4.166 mi. Sect. "I" Columbus-Cincinnati Rd., Warren Co. surface treated waterbound macadam $92,422; to R. L. Harris, Hicksville, 2.585 mi. Sect. "I" Lima-Ottawa Rd., Allen Co., Kentucky rock asphalt, $64,875; to G. A. Gialdini, 15 East Front St., Youngstown, 4.839 mi. Sect. "A" Harrisburg-Westville Rd., Columbia and Mahoning Counties, waterbound macadam, $95,795; to Lewis & Copeland, Lima, 2.077 mi. Sect. "A-2" Lancaster-Logan Rd., Fairfield Co., brick, incl. brick, $85,193. Noted Mar. 5.

Ohio—Dept. Highways & Pub. Wks., Columbus, to Andrews Asphalt Paving Co., Hamilton, grading, bridging and paving Cincinnati-Dayton Rd., Butler Co., 3.636 mi. Sect. "V," sheet asphalt $136,920, 0.329 mi. Sect. "Monroe" $10,844, 3.666 mi. Sect. "W-1" $133,108; to Dorsey Constr. Co., Findlay, 4.544 mi. Sect. "A" Cleveland-West Richfield Rd., Cuyahoga Co., rein.-con., brick, $261,660; to W. C. Brown, Chillicothe, 0.262 mi. Sect. "Harrisburg" Columbus-Washington C. H. Rd., Franklin Co., brick, $13,692; to F. M. Schreckengast, Newark, 0.04 mi. Sect. "L-Bridge" Mt. Vernon-Coshocton Rd., Knox Co., concrete and waterbound gravel, $19,672; to Modern Constr. Co., Fremont, 1.301 mi. Sect. "G" Bono-Port Clinton Rd., Ottawa Co., rein.-con., $41,707; to S. Monroe Co., Portsmouth, Sect. "U-2" Ohio River Rd., Scioto Co., brick $142,143; to Johnson Eng. Co., Napoleon, Buckrus-Upper Sandusky Rd., Wyandot Co., 4.034 mi. Sect. "A-1" brick $142,618, 1.003 mi. Sect. "A-2" $32,629, Sect. "I-2" $50,771. Noted Mar. 5.

O., Cleveland—Asphaltic concrete paving Chardon Rd., to F. B. Stein, Euclid, $111,748. Engrs. est. $142,500. Noted Feb. 26.

O., Massillon—See "Buildings—Industrial."

O., Shaker Heights (Cleveland P. O.) — City, bituminous concrete paving 10 streets, to Rieley Bros., The Arcade, Cleveland, $300,000.

Ill., Galesburg — Grading and vitr. brick surfacing, etc., 3,940 sq.yd., East Berrien St., to Graham-King Constr. Co., 550 South Cedar St., $15,990, engrs. est. $17,145, 6,496 sq.yd., East Knox St., to H. H. Gunther, 600 East Main St., $2,792, engrs. est. $27,533. Noted Feb. 26.

Ill., Lewiston—Concrete surfacing, etc., 4,650 sq.yd. West Euclid Ave., to Sutton & Moore, Lewiston, $17,000. Noted Feb. 19.

Minn., Duluth—W. H. Tischer, city comr., concrete on prepared roadbed of crushed rock on macadam paving, etc., 55,920 sq.yd. Congdon Blvd., to Thornton Bros., c/o City Engineers Office, City Hall, $142,652. Noted Feb. 19.

Minn., Osakis—City, improving various streets, 10,300 sq.yd. paving, 3,248 lin.ft. concrete curbing, 1,080 lin.ft., storm sewer and 1,500 lin.ft. water connections, to Ostrand & Hallet, Crosby, $2.66 per sq.yd. for paving. Noted Feb. 19.

Kan., Kansas City—Wyandotte Co., concrete surfacing Southwest Blvd., with 5 ft. dirt shoulders, to Kaw Constr. Co., Kansas City, $61,096.

Neb., Falls City — Concrete pumphouse, 750 and 500 g.p.m. centrifugal pumps, concrete intake on Nemah River, filtration plant and Keystone filter equipment, etc., to C. Robeck Co., 408 Securities Bldg., Omaha, $36,575. Noted Feb. 12.

Neb., Omaha—Paving 93,000 yd. Lincoln, Bellvue and Turner Blvds., to J. Sherlock, 1805 Dodge St., at $0.218 per yd.

Neb., Tilden—City Clerk, grading, curbing and Johnsonite concrete paving 15,505 sq.yd. various streets, to Booth & Olson, Inc., 120 Virginia St., Sioux City, Ia., $43,776. Noted Dec. 11.

Neb., Weeping Water—Grading, curbing, guttering and 6 in. rein.-con. paving 12,200 sq.yd. various streets, to Yant Constr. Co., Omaha Natl. Bank Bldg., Omaha, at $1.98 per sq.yd. Engrs. est. $35,000.

Mo., Chillicothe — To Harrison Constr. Co., 413 Kraft Bldg., Des Moines, Ia., improving Walnut, Normal and Spring Hill Sts., tarvia paving $2.38 per sq.yd., curbing $0.80, excav. $0.50, Jackson St. from Cherry to Dickens Sts., concrete paving $2.47, excav. $0.50, Jackson St. from Washington to Cherry Sts., paving $2.82, excav. $0.50, Bway. paving $2.77, curbing $0.55, excav. $0.50; to Cook-O'Brien Constr. Co., Kansas City, Vine St. brick on macadam paving $2.49, excav. $0.31, Ann St. paving $3.60, curb $0.60, and excav. $0.50.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Webb-Boone Paving Co., 5927 Fyler Ave., asphalt paving 3,400 sq.yd. Devonshire Ave. $16,555, concrete curbing and asphaltic concrete paving 1,100 sq.yd. Dewey Ave. $9,005, granite curbing and asphalt paving 1,775 sq.yd. Margaretta Ave. $10,912; to Trinidad Asphalt Mfg. Co., Title Guaranty and Trust Bldg., granite curbing and asphalt paving 9,365 sq.yd. Eichelberger St. $60,621, asphalt paving 9,780 sq. yd. Goodfellow Ave. $58,681; to Central Paving & Constr. Co., 6161 Maple St., Willite paving 10,205 sq.yd. Lafayette Ave. $54,684; to Granite Bituminous Paving Co., Railway Exch. Bldg., Warrenite bitulithic paving 2,320 sq.yd. Famous Ave. $16,122, 1,290 sq.yd. Thekla Ave. $9,783; to F. C. Stolle Contg. Co., St. Louis, granite paving 1,920 sq.yd. 11th St. $17,125, brick on concrete paving 1,950 sq.yd. Scott Ave. $19,661; to F. A. Grant, St. Louis, grading 2,365 cu.yd. Nashville Ave. $1,503. Noted Feb. 5.

Mo., St. Louis—Federer Realty Co. & D. A. Livingston, 3612 Kingshighway S. W., improving Holly Hills subdivision, 37,500 ft. concrete curbing, 75,000 sq.ft. concrete and 319,000 sq.ft. asphaltic concrete on concrete paving, to Central Paving & Constr. Co., 6161 Maple Ave., $145,200; also 169,000 sq.ft. concrete paving sidewalks, to Riley Contg. Co., Buder Bldg., $35,490.

Mo., St. Louis — Keck Surveying Co., engrs., 721½ Chestnut St., 23,000 sq.yd. 8 in. concrete paving, 6,000 ft. metal and 760 ft. asphalt expansion joints, etc. in Russell Park, to O'Rielly & Smith Constr. Co., Vivtoria Bldg., for Security Garantor Realty Co., International Life Bldg. Cost plus percentage basis. Noted Feb. 19.

Mo., St. Louis — Keck Surveying Co., engrs., 721½ Chestnut St., improving Winnebago St., 2,018 cu.yd. grading, 2,455 sq.yd. 7 in. rein.-con. paving, 1,185 lin.ft. granite curbing to Skrainka Constr. Co., Security Bldg., for J. Weisert, St. Louis. Noted Feb. 19.

Arkansas—State Hy. Dept., Little Rock, grading and 5 in. concrete surfacing 53,000 sq.yd. Little Rock-Spring Lake Highway, to M. D. L. Cook, Southern Trust Bldg., Little Rock, $98,839. Noted Mar. 5.

Tex., Carrizo Springs—Dimmit Co. permanent paving 14.86 mi. road from Dilley to Dimmit Co. line, 18 ft., to Kelly & Lehr, 2525 Monterey St., San Antonio, $133,973.

Tex., Floresville — Wilson Co., grading, bituminous topping on macadam and bridging 9.06 mi. State Highway 81, Federal Aid Project 440-C, 18 ft., to W. T. Montgomery, 705 Alamo Bank Bldg., San Antonio, $203,191. Engrs. est. $230,622.

Tex., Floresville — Wilson Co., grading, bituminous on macadam surfacing and bridging 14.52 mi. State Highway 16, Federal Aid Project 434-A, 18 ft., to Brammer & Wilder, Stewart Bldg., Houston, $342,087. Engrs. est. $395,096. Noted Mar. 5.

Tex., Snyder—Paving with 2½ in. brick on 5 in. concrete 28,918 yd. various streets, to Smith Bros., Sumpter Bldg., Dallas, $2.94 per sq.yd., total $101,325. Noted Jan. 1.

Tex., Sonora—Sutton Co., grading, bridging and crushed stone surfacing 10.84 mi. State Highway 27, 16 ft., to Armstrong & Armstrong, Melrose, N. M., $76,417; 7.86 mi. and 11.25 mi. State Highway 27, both 16 ft., to W. T. Montgomery, c/o Alamo Nat. Bank Bldg., San Antonio, $75,392 and $112,601 respectively. Noted Mar. 5.

Oklahoma—State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project and e. e. means engineers estimate)**, to I. E. Hansen, Cleveland, grading and surfacing 6.8 mi. Newkirk-Kansas State line Rd., 18 ft., F. A. P. 167, Kay Co., $153,733, e. e. $165,700, and concrete surfacing 5.147 mi. Ocheleta-Ramona Rd., 18 ft., F. A. P. 15-C, Washington Co., $118,741, e. e. $125,000; to M. E. Giloiz, Nowota, grading and gravel top surfacing 5.91 mi. Federal Aid Project 119, 18 ft., Nowota Co. $39,055, e. e. $45,000; to Hamilton Constr. Co., Bartlesville, grading, etc., 7 mi. Verdigris Rd., 30 ft., and macadam surfacing 2 mi. same road, 18 ft., Rogers Co., $42,277; to D. A. Blackburn, Cole Bldg., Tulsa, 9.91 mi. S. A. P. 121-A and B, Rogers Co., $49,587, e. e. $54,000; to H. L. Cannady, 1122 South Lewis St., Tulsa, grading, etc., 3.414 mi. S. A. P. 107, 30 ft., Canadian Co., $26,265, e. e. $30,000, grading, concrete surfacing, etc., 7 mi. F. A. P. 124-A, Garfield Co., $178,638, e. e. $190,000, 6.68 mi. F. A. P. 124-B, 18 ft., Garfield Co., $158,712, e. e. $171,310; to Maney Bros., Empire Bldg., Oklahoma City, grading, etc., 6 mi. Guthrie-Oklahoma Co. line Rd., 30 ft., F. A. P. 130-D, Logan Co., $27,984, grading, structures, etc., on 6.165 mi. Blackwell-Tonkawa Rd., 30 ft., Kay Co., $26,708, e. e. $30,000; to J. J. Harrison, 2100 South High St., Oklahoma City, grading, etc., 13 mi. Guthrie-Oklahoma Co. line Rd., 30 ft., F. A. P. 130-E, Logan Co., $44,569, 7.7 mi. Pershing-Barnsdall Rd., 30 ft., F. A. P. 153-A, Osage Co., $37,977, draining same road $34,369, and gravel surfacing 5.4 mi. Nowota-Watova Rd., 30 ft., S. A. P. 106, Nowata Co., $51,611; to E. G. Fiske, Tulsa, grading, etc., 6.3 mi. Arkansas River Bridge-Ponca City Rd., 30 ft., Project 152-F, Osage Co., $55,387, and bridges on Guthrie-Oklahoma Co. line Rd., F. A. P. 130-F, Logan Co., $14,873; to Green-Beekman Co., 519½ West Main St., Oklahoma City, concrete surfacing 3.414 mi. S. A. P. 107, Canadian Co., $75,367, e. e. $83,000. Noted Feb. 19.

Calif., Compton—Grading, curbing, sidewalks and 5-in. concrete paving, 228,450 sq.yd. Bway., McDevitt and Willow Sts., etc. to G. H. Oswald, 366 East 58th St., Los Angeles, $69,887. Engrs. est. $70,200. Noted Feb. 26.

Calif., Huntington Beach—Improving 7th St. between Main St. and Ocean Ave., 1.5 in Topeka on 3.5 in. asphaltic concrete paving, concrete sidewalks, etc., to G. M. Souter, 410 9th St., $25,361.

Calif., Los Angeles—Curbing, sidewalks, concrete paving, etc., Franklin Ave. between Hillhurst and Oxford Aves., to Curtis Paving Co., 2440 East 26th St., $77,776.

Calif., Los Angeles—To Griffith Co., 502 Ry. Exch. Bldg., improving portions of Judson St. $3,895, New Hampshire Ave. $13,919, 53rd Ave. $9,118, and 54th Ave. $62,260; to G. R. Curtis Paving Co., 2440 East 26th St., Council St. $14,309, and Leighton Ave. $23,053; to H. R. Erdman, 141 West Main St., Alhambra, Clifton St. $7,306; to R. K. Smith, 1124 South St. Andrews Pl., Emmet Terrace, $27,681; to Underground Constr. Co., 517 South Bway., El Contento

Streets and Roads (Continued)

Dr. $88,584; to W. D. McCray, 416 Amer. Bank Bldg., Isleta Dr. $53,161; to W. Liddington, 420 East 60th St., South Park Ave. $134,575; to G. H. Oswald, 366 East 58th St., Rimpau Blvd. $52,780. Noted Feb. 5.

Calif., Newport Beach — City Trustees, curbing, guttering, sidewalks, 4 in. concrete paving, etc., streets in Balboa Island, to Fleming Constr. Co., 105 North Park Ave., Pomona, $183,339. Noted Aug. 7.

Calif., San Francisco—Bd. Pub. Wks. improving Delong St., etc., 11,690 sq.ft. concrete and 62,000 sq.ft. asphaltic concrete paving, also Judah St., 148,141 sq.ft. asphaltic concrete paving, etc., to A. E. Hennessy, 724 Sharon Bldg., $34,092 and $64,779 respectively. Noted Mar. 5.

Calif., Redondo — Improving Catalina Ave., Clifton, to G. R. Curtis, 2440 East 26th St., Los Angeles, $42,852. Engrs. est. $43,000.

Buildings—Industrial

PROPOSED WORK

Mass., Medford — Repair and Service Garage—Owner, c/o M. A. Dyer, archt., 1 Beacon St., Boston, having preliminary plans prepared 1 story, rein.-con. and brick, High St., here. $40,000.

Mass., Newtonville (Ind. br. of Boston) —Repair and Service Garage — Newton Motor Sales Co., West Newton Sq., Newton, plans 1 story, rein.-con., 773 Washington St., here. $50,000. Private plans.

Conn., New Haven—Warehouse—Westcott & Mapes, Inc., engrs. and archts., 207 Orange St., take bids about Mar. 15, 3 story and basement, 33 x 50 ft., cold storage warehouse, rein.-con. and brick, for Durham Storage Co., 35 Olive St. $55,000. Noted Feb. 12.

N. Y., New York—Auto Service Station and Shop—Rotholz & Golden, archts. and engrs., 311 Lenox Ave., preparing plans 4 story, 50 x 100 ft., rein.-con., brick and steel, plain foundation, West 161st St. $150,000. Owner's name withheld.

N. Y., New York — Laundry — Fox Sq. Laundry, c/o J. J. Gloster, archt. and engr., 110 West 40th St., having plans prepared brick, steel and stone, plain foundation, Edgewater Rd. $200,000.

N. Y., New York—Slaughter House—E. S. and J. B. Appleby, Glencove, having plans prepared by Stadler, Levine & Craven, archts. and engrs., 29 Bway., 6 story, rein.-con., brick and steel, plain foundation, 11th Ave. and 40th St. $300,000.

N. Y., New York—Substation—New York Edison Co., 130 East 15th St., having plans prepared by W. Whitehill, 709 6th Ave., 3 story, rein.-con., brick and steel, plain foundation, West 84th St. $150,000.

N. Y., Yonkers—Plant—Otis Elevator Co., 250 11th Ave., New York City, having plans prepared by W. Moyer, archt. and engr., 260 11th Ave., New York City, 4 story, 100 x 350 ft., rein.-con. and steel addition, plain foundation, Atherton St., here.

N. C., High Point—Mill—Hillcrest Silk Co., 517 30th St., North Bergen, N. J., having plans prepared by Lockwood, Green & Co., Piedmont Bldg., Charlotte, large mill incl. 800 ft. spur track, here.

O., Martins Ferry — Foundry — Beans Fdry. Co., plans 1 story, 100 x 100 ft., brick and steel foundry. Private plans.

Ind., Muncie—Factory—Muncie Malleable Fdry. Co., Highland Ave., plans rebuilding 1 story factory buildings recently destroyed by fire. $100,000-$150,000.

Mich., Iron Mountain—Plant—Iron Mountain Gas Co., W. L. Tibbs, pres., 214 West Water St., Milwaukee, Wis., plans 2 story, brick and steel, plain foundation, here. To exceed $40,000. Engineer and architect not selected.

Ill., Belle Rive—Shops, Roundhouse, etc. —Illinois Central R.R. Co., 135 East 11th Pl., Chicago, plans division point building, incl. roundhouse, machine and car repair shops, office building and storage tracks, etc. for new main line between Edgewood, Ill. and Paducah, Ky., near here. F. L. Thompson, ch. engr.

Wis., Milwaukee—Cooler, etc.—Plankington Packing Co., Muskego Ave. and Canal St., had plans prepared by C. H. Kane, archt. and engr., c/o Swift & Co., Union Stock Yards, Chicago, Ill., 4 story and basement, 110 x 152 ft., brick and concrete, plain foundation, Muskego Ave. $250,000.

Kan., Ft. Scott—Factory—Borden Milk Co. plans 2 story, 50 x 60 ft., brick factory. $80,000. D. C. Davidson, local supt. Private plans.

Kan., Hutchinson—Plant—L. Lewis plans 2 story and basement, 66 x 165 ft. cleaning plant. $40,000. Engineer and architect not selected.

Kan., Wichita—Plant—J. Dold Packing Co., 21st and Lawrence Sts., having plans prepared by Henschin & McLaren, 1637 Prairie Ave., Chicago, Ill., 5 story and basement, 50 x 170 ft., packing plant addition.

Mo., Joplin—Mill—Burch Lead & Zinc Co. having preliminary plans prepared new mill and equipment for lead and zinc mine. $100,000. Private plans.

Tex., El Paso—Bag House—El Paso Smelting Wks. having plans prepared by R. S. Moore, archt. and engr., c/o owner, soon takes bids 1 story, 40 x 80 x 200 ft., concrete and brick. $250,000.

Tex., Ft. Worth—Mill—J. R. Griffin, c/o Chamber of Commerce, Ft. Worth, purchased 180 acre site and plans 50,000 spindle cotton mill along Houston & Texas Central R.R. tracks, south of here. $2,500,000. Engineer and architect not selected.

Tex., Houston—Farmers Market—Election Apr. 13, $350,000 bonds farmers market. O. F. Holcombe, mayor. Engineer and architect not announced.

Tex., McKinney—Plant—McKinney Ice & Coal Co. plans plant addition. $45,000. Engineer and architect not announced.

Tex., Palestine—Plant—Palestine Ice & Fuel Co. having plans prepared new ice and cold storage plant. $45,000. S. L. Watts, Tyler, engr.

Tex., Paris—Roundhouse—City and Mt. Pleasant R.R. Co. plan rebuilding roundhouse, recently destroyed by fire. $150,000. N. H. Ragland, Mt. Pleasant R.R. Co., secy. and genl. mgr.

Tex., Spears—Mill—Spears & Co. making plans 40 x 120 ft. cotton oil mill addition, rein.-con. and cement. $75,000. Private plans.

Tex., Victoria — Plant — Election soon $65,000 bonds light plant. $30,000 bonds previously voted for same. Total $95,000. Address Mayor. Engineer not selected.

Calif., Los Angeles—Factory—Albertson Motor Car Co., 1540 South Figueroa St., soon takes bids 2 story, 100 x 300 ft., rein.-con., 50th St. and Long Beach Ave. $175,000 or more. J. M. Cooper, Marsh-Strong Bldg., archt. Noted Feb. 19.

Calif., Redondo — Creamery — Crescent Creamery Co., 237 Winston St., Los Angeles, plans creamery. To exceed $40,000.

Calif., Santa Barbara — Plant — Voted $140,000 bonds for hydro-electric power plant and distribution system. G. Morrison, city engr. Noted Aug. 7.

Calif., Woodland — Plant — Woodland Democrat, had plans prepared by Dean & Dean, City Library Bldg., Sacramento, 2 story, news paper and printing plant, concrete, etc., Court St. $45,000.

Ontario — Power Plants, etc. — Hydro-Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans following improvements and extensions to hydro-electric power systems: Niagara System $13,500,000; developing and improving Queenston - Chippewa Development $7,500,000; transformer stations for Queenston $800,000, Toronto $400,000; high voltage stations in Guelph, Preston, Stratford, Woodstock, Kent and Essex $1,000,000; transmission lines $2,500,000; rural lines $500,000; miscellaneous $500,000; Georgian Bay System $1,130,000; extending South Falls Development $40,000; power development on Muskosh River $550,000; improving Severn, Eugenia and Wasdells Systems $30,000; transformer stations $100,000; transmission lines $230,000; St. Lawrence System, development at Morrisburg $1,500,000; transformer stations $50,000; transmission lines $100,000; Rideau System, general improvements to system and transformer stations $100,000; Thunder Bay System completing 3rd and 4th units, improving 5 and 6 at Camerons Falls, and completing dam at Virgin Falls $1,700,000; transformer stations $250,000; double circuit steel tower lines at Port Arthur and Ft. William $500,000; miscellaneous $100,000; Central Ontario System, Crow River Storage $350,000, Dams 4 and 5 $400,000, transformer stations $100,000, transmission lines $100,000, rural lines $50,000, local systems $200,000, miscellaneous $100,000; Nipissing System Cox's Chute $100,000, transformer stations $25,000, transmission lines $20,000; Ottawa System developments on Ottawa River $750,000, miscellaneous betterments to general works of Comn. incl. service and administration buildings $500,000, additions to plants $50,000. F. Gaby, ch. engr.

Ont., Windsor—Plant—Sterling Products Ltd., 937 Elliott St. plans new plant. $150,000.

BIDS DESIRED

Me., Winthrop—Plant—Winthrop Mills Co., taking bids 4 story and basement, 64x202 ft., brick and timber, concrete foundation. To exceed $40,000. F. P. Sheddon & Son, Hospital Trust Bldg., Providence, R. I., archts.

Mass., North Adams — Plant — North Adams Gas & Electric Co., c/o B. K. Cook, mgr., taking bids for gas plant, here. W. M. Russell, 77 Franklin St., Boston, archt.

Pa., Phila.—Factory—Mar. 16, by C. E. Wunder, archt., 1520 Locust St., 3 story and basement, 74 x 146 ft., brick, plain foundation, for Minter Bros., 5050-61 Lancaster Ave.

Wis., Bonduel—Factory—Mar. 21, by Bonduel Creamery Co., 2 story, 50 x 80 ft., brick and concrete factory, plain foundation. $40,000. J. F. Dreger, Oshkosh, archt.

Wis., Milwaukee—Factory—Mar. 21, by E. G. Schraeder Co., archts., 405 Bway., 1 and 2 story, 82 x 120 ft., brick and concrete, plain foundation, 30th St., for Standard Sheet Metal Wks., 1485 30th St. $50,000.

Wis., Milwaukee—Shop—C. J. Keller & Son, archts., 432 Bway., taking bids and open same about Mar. 18, 2 story, 40 x 82 ft., brick and tile, Van Buren St., for J. M. Hollitz, 445 Jefferson St. $40,000.

CONTRACTS AWARDED

Mass., Boston—Factory—Wright & Ziegler, 70 Spice St., altering and constructing 3 story, brick addition, Spice St., to J. W. Duff, Inc., 146 Summer St., Boston. Archts. est. to exceed $40,000.

Mass., Dorchester (Boston P. O.)—Repair and Service Garage—Green & Shapiro, Old South Bdg., will build 1 story, rein.-con., Wilder Rd., by day labor. $40,000. S. E. Moffie, 51 Cornhill St., Boston, archt.

Mass., Norwood—Plant—Bird & Sons, East Walpole, 2 story, 80 x 100 ft. finishing building, 1 story, 120 x 135 ft. printing building, and 1 story, 80 x 200 ft. oven building additions, all rein.-con. and brick, plain foundations, to Central Eng. & Constr. Co., Slater Bldg., Providence, R. I. Archts. est. $60,000, $65,000 and $60,000 respectively. Noted Feb. 26.

N. Y., Brooklyn — Service — Detroit Motor Car Realty Co., 1881 Bway., New York City, 5 story, 100 x 175 ft., rein.-con., brick and steel, plain foundation, Atlantic Ave., to Thompson & Binger, Inc., 103 Park Ave., New York City. Archts. est. $425,000.

N. Y., Coney Island (Sta. Brooklyn)—Shop—Bd. Transportation, 49 Lafayette St., New York City, structural steel for main repair shop and other buildings at yard, here, to Bethlehem Steel Co., 25 Bway., New York City, $670,005. Noted Feb. 26.

N. Y., Corona (Sta. Flushing)—Shop—Bd. Transportation, 49 Lafayette St., New York City, structural steel for inspection shop, here, to Levering & Garrigues, 552 West 23rd St., New York City, $69,000. Noted Mar. 5.

Tenn., Nashville—Factory and Cold Storage—Noel & Co. Ice and Cold Storage Co., 10th and Harrison Sts., general contract, freezing room, 8 story cold storage building, ice storage and office building to Gould Constr. Co., Independent Life Bldg., approximately $350,000.

O., Massillon—Blast Furnace—Central Steel Co., excavating, grading and concrete work for blast furnace, Columbia Heights, to A. F. Wendling, Massillon, $250,000. Noted Dec. 18.

Ill., Sterling—Factory—Natl. Mfg. Co., 5 story and basement, 75,000 sq.ft. floor space, rein.-con., to Austin Co., 16,112 Euclid Ave., Cleveland, O.

Mo., St. Louis—Factory—St. Louis Ice Cream Co., 517 South Jefferson Ave., will build 2 story and basement, 60 x 130 ft., rein.-con. and brick, 4581-95 Page Blvd., by day labor. $100,000. Private plans.

Tex., Ft. Worth—Laundry—Natatorium Laundry Co., 101 East Belnap St., 2 story, 100 x 200 ft., brick and steel, plain and concrete pile foundation, South Main and Terrell Sts., to Southwell & Abbott, 605 East 2nd St., $44,392. Noted Feb. 26.

Wash., Longview — Power House — See "Buildings—Commercial."

Wash., Millwood—Mill—Inland Empire Paper Co., 2 story, 145 x 255 ft., steel and rein.-con. mill, to Austin Co., Dexter-Horton Bldg., Seattle.

Calif., Los Angeles—Factory—D. and B. Pump & Supply Co., 301 West Avenue 26, general contract 1 story, 50 x 150 ft., concrete and steel, 301 Avenue 26, to Pacific Iron & Steel Co., 2637 Humboldt St., $40,000. Noted Mar. 5.

B. C., New Westminister — Plant — Canada Creosoting Co., Canadian Pacific Ry. Bldg., Toronto, Ont., constructing creosoting plant, incl. two 900,000 gal. tanks built with piping, and small office, here, to R. L. Bonham, Liverpool, company's engr. $250,000.

Buildings—Commercial

PROPOSED WORK

Mass., Arlington (Boston P. O.)—High School—Town, c/o E. H. Barker, chn. Bd. Educ., 79 Milk St., Boston, having plans prepared by Brainard & Leeds, 89 Franklin St., Boston, Eastern Junior High School, Lake St., East Arlington. $200,000. Noted July 17.

Mass., Arlington Heights (Boston P. O.)—Church — St. James Roman Catholic Church having plans prepared by W. B. Colleary, 80 Boylston St., Boston, 1 story and basement, rein.-con., brick and stone church. $150,000.

Mass., Boston — Hospital — Homeopathic Hospital, 82 East Concord St., E. H. Baker, pres., Ames Bldg., plans new hospital. $150,000. Engineer and architect not selected.

Mass., Boston — Parish House and Chapel — Second Congregational Church, V. Dabney, pastor, 6 Melville Ave., having plans prepared by G. F. Newton, 6 Beacon St., 2 story and basement, brick, Codman Sq. $150,000.

Mass., Brookline (Boston P. O.) — Apartment—Roosevelt, Inc., c/o Silverman, Brown & Heenan, archts., 51 Cornhill St., Boston, having preliminary plans prepared 10 story and basement, 150 x 20 ft., brick and steel, plain foundation, Beacon St. $2,000,000.

Mass., Chelmsford — Church — Roman Catholic Archbishop of Boston, c/o J. M. Gray, archt., 175 High St., Boston, having plans prepared 1 story and basement, 60 x 100 ft., rein.-con. and stucco church, here. $150,000.

Mass., Foxboro—High School—B. B. Bristol, chn. Town Building Com., plans new high school. $175,000. Engineer and architect not selected.

Mass., Malden — Convent — Immaculate Conception Church, c/o R. Neagle, pastor, Fellsway East, having plans prepared, 3 story and basement, brick, Fellsway East and West. $100,000. Private plans.

Mass., Medford—Apartment—Brown & Fay, 15 Salem St., plans 3 story and basement, brick and stone, Salem and Washington St. $150,000. Engineer and architect not selected.

Mass., Medford—Apartment—Syndicate, c/o E. C. Farrington, 53 Johnson Ave., West Medford, having plans prepared by Whitten & Gore, 31 Milk St., Boston, 4 story and basement, 40,000 ft. floor space, brick, 520 High St. $300,000.

Mass., Medford—Apartment—M. A. Dyer, archt., 1 Beacon St., Boston, preparing plans 6 story and basement, 160 x 160 ft., rein.-con., brick and limestone, High St. $500,000. Owner's name withheld.

Mass., Milford—Y. M. C. A. plans altering and constructing addition to buildings, Exchange St. $150,000. Private plans.

Mass., New Bedford — Bank—Merchants Natl. Bank, William St., having plans prepared by Adden & Parker, 177 State St., Boston, altering and constructing 2 story and basement, brick and granite addition, William St. $150,000 or more.

Mass., Rockport—High School—Bd. Selectmen plans 2 story high school, on Town Green near Tarr School. $150,000. Engineer and architect not selected.

Mass., Springfield—Office—A. Romano, 29 Locust St., plans rebuilding 4 story and basement, 83 x 148 ft., brick and steel, 184 State St., recently destroyed by fire. $150,000

Mass., Springfield — School — Dept. Pub. Buildings having plans prepared by M. W. Maloney, 23 Pearl St., 2 story and basement, brick and steel, East Springfield Dist. $150,000.

Mass., Ware—Church—East Congregational Church Society, C. B. Weatherby, chn. Building Com., raising $150,000 or more funds for new church replacing one recently destroyed by fire. Engineer and architect not selected.

Mass., Winthrop—School, etc.—Hebrew Assn., c/o L. Rudginsky, having plans prepared by S. E. Moffie, 51 Cornhill St., Boston, 2 story and basement, 60 x 100 ft., brick and stone school, gymnasium and auditorium, Shirley St. $150,000.

Mass., Worcester—Apartment—M. Katz, 29 Pearl St., having plans prepared by E. T. Chapin, 340 Main St., 5 story and basement, 95 x 100 ft. apartment, Boynton St. $300,000.

Mass., Worcester—Dormitory—Assumption College, Assumption Ave., plans dormitory on Assumption Ave. $225,000. O. E. Nault, 48 Hamilton St., archts.

Mass., Worcester—Garage—J. P. Coghlin, of Coghlin Electric Co., 259 Main St., plans 3 or 4 story, rein.-con. and steel garage. $800,000. Engineer and architect not selected.

Mass., Worcester — Warehouse — C. E. Mattson, c/o G. A. Johnson, archts., 405 Main St., having plans prepared 2 story and basement, 100 x 100 ft., rein.-con., brick and steel, plain foundation, Ashmont St. $150,000.

R. I., Providence — High School — City School Com., City Hall, plans Junior High School, Washington Park. To exceed $150,000. Engineer and architect not selected.

R. I., Providence—Hospital and Nurses Home — Bd. Comrs. City Hospital, 150 Eaton St., plans 2 additions and nurses home, etc. $850,000.

R. I., Providence—School—School Com., City Hall, plans school, America St. $1,000,000. Engineer and architect not selected.

R. I., Woonsocket—High School—School Comn. plans high school addition. $150,000.

Conn., Hartford — Garage — J. and T. Long, 52 Market St., plans 60 x 280 ft. garage. $150,000.

Conn., Hartford — Hotel — Hotel Bond, 354 Church St., having plans prepared by A. W. Lewis, 2 East 41st St., New York City, hotel, Church St. $150,000.

Conn., Hartford — Laboratory — Trinity College Corp. plans laboratory, Zion St. Trowbridge & Livingston, 527 5th Ave., New York City, archts.

Conn., New Haven—Apartment—Owner, c/o Ruda Constr. Co., 420 1st Ave., West Haven, having plans prepared by F. Rubino, 113 Hamilton St., 6 story, brick and steel, Wall St. To exceed $150,000.

Conn., New Haven — Hotel — Plans 11 story, 250 room hotel and theatre, George St. $1,000,000. A. W. Sperry, Chapel St., engr. Owner's name withheld.

Conn., New Haven—School—School Dist. Comn., 169 Church St., plans school, Exchange St. To exceed 150,000. Engineer and architect not selected.

Conn., New London — Office — Southern New England Telephone Co., 73 Washington Ave., plans office building, Washington St. $325,000. Engineer and architect not selected.

Conn., Norwich — Office — Southern New England Telephone Co., 114-126 Court St., New Haven, F. M. Dooley, Jr., Commercial Serv., Commercial Serv. Div., plans central office building, Washington St. $330,000.

N. Y., Brooklyn — Apartment — Isab Realty Co., Inc. c/o E. M. Adelsohn, archt. and engr., 1778 Pitkin Ave., having plans prepared brick, steel and stone, plain foundation, Fountain Ave. $200,000.

N. Y., Brooklyn—Clubhouse—B. P. O. E. 22, Brooklyn Lodge, soon takes bids brick, steel and stone, plain foundation, Livingston Ave. $3,000,000. McKim, Mead & White, 101 Park Ave., New York City, archts.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York City, had plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., P. S. 210, brick, steel and stone, plain foundation, Clarkson Ave., here. $1,200,000.

N. Y., Brooklyn—School—Brooklyn Society Ethical Culture, 172 South Oxford St., having plans prepared by E. Roth, 119 West 40th St., New York City, brick, steel and stone, plain foundation, South Oxford Ave. $250,000.

N. Y., Brooklyn—Theatre—Fein Realty Co., Inc., c/o Shampan & Shampan, archts. and engrs., 189 Montague St., having plans prepared brick, steel and stone, plain foundation, 7th Ave. and 81st St. $500,000.

N. Y., New York—Dormitory—Columbia University, Morningside Ave., had plans prepared by McKim, Mead & White, 101 Park Ave., 12 story, brick, steel and stone, plain foundation, 114th St. and Bway. $1,500,000.

N. Y., New York—Loft—Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., preparing plans brick, steel and stone, plain foundation, East 40th St. $750,000. Owner's name withheld.

N. Y., New York — Loft — Kennacoe Realty Corp., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., having plans prepared 16 story, brick, steel and stone, plain foundation, 257 West 39th St. $1,000,000.

N. Y., New York—Office—Natl. Bd. Fire Underwriters, 76 William St., having plans prepared by Clinton & Russell, archts. and engrs., 100 Madison Ave., 14 story, brick, steel and stone, plain foundation, John and Gold Sts. $1,150,000.

N. Y., New York—School—St. Jean the Baptiste Roman Catholic Church, c/o R. J. Reiley, archt. and engr., 50 East 41st St., having revised plans prepared 6 story, brick, steel and stone, plain foundation, 161 East 75th St.

N. J., Newark—Bank and Office—Federal Trust Co., 740 Broad St., having plans prepared by C. G. Jones, Union Bldg., 10 story, brick, steel and stone, plain foundation, Clinton St.

N. J., Ventnor—City Hall—City Council plans city hall. $200,000. C. E. Reppetto, city clk. Engineer and architect not selected.

Pa., Johnstown—Church—First Presbyterian Church, 6th and Luzerne Sts., plans 2 story and basement, 70 x 100 ft., brick and stone, 6th Ave. and Luzerne St. $250,000. Engineer and architect not selected. J. W. Walters, chn. bldg. com.

Pa., Johnstown—High School—Bd. Educ. having plans prepared by J. E. Adams, Nemo Bldg., 4 story and basement, Morrellville St., Sheridan and Decker Aves. $750,000.

Pa., Lewiston—School—Lewiston School Dist. plans 3 story and basement, 30 x 306 ft., steel and brick school. $300,000. C. Coxe, supt. bd. dirs.

Pa., Wescosville — Almshouse — Lehigh Co. Almshouse, c/o A. Sliger, having plans prepared by D. Levy, 929 Hamilton St., Allentown, 3 story and basement, 200 x 300 ft., brick and steel, plain foundation.

N. C., Concord — Hotel — Concord Realty Co., c/o G. L. Patterson, pres., having plans prepared by W. L. Stoddart, 50 East 41st St., New York City, 6 story hotel. $300,000.

Fla., Ft. Myers—Schools—Lee Co. election Mar. 17, 350,000 bonds for school buildings. J. C. English, Supt. Pub. Instruction.

Fla., Miami—Hotel—C. H. Watson, 330 3rd St., having plans prepared by G. L. Preacher & Co., archts. and engrs., Healy Bldg., Atlanta, Ga., 15 story, 50x95 ft. hotel, North East Bay Shore Dr. and 2nd Ave.

Fla., Miami Beach—Hotel—Hotel Floridan Co., J. Cherbino, pres., having plans prepared by A. D. Bullerwoth, Miami Beach, 9 story, 37 x 51 ft., 5th St. and Albon Rd. $750,000.

Fla., Passagrille—Hotel—T. J. Rowe, St. Petersburg, having plans prepared by H. H. Dupont, St. Petersburg, 4 story hotel. $200,000. C. Beard, St. Petersburg, engr.

Fla., Sarasota — Hotel — C. Ringling & associates, Sarasota, having plans prepared by Pringle & Smith, Atlanta Trust Co. Bldg., Atlanta, Ga., 12 story hotel, Taniami Trail and Ringling Blvd. $1,000,000.

Fla., St. Petersburg—City Hall—City plans 8 story city hall. $300,000.

Ala., Gadsden — Church — First Baptist Congregation plans new church. $150,000. Engineer and architect not selected.

Miss., Winona—School—L. E. Townsend, supt. Montgomery Co., having preliminary plans prepared by C. H. Lindsley, Lamar Bldg., Jackson, 3 story, concrete and brick school. $125,000-$150,000.

Tenn., Knoxville — Church — Church of Holy Ghost raising $150,000 funds for church, Central St. and Hinton Ave. $150,000.

Tenn., Knoxville — Dormitories, etc. — State Building Comn., L. Pope, dir. State Institutions, 3533 Richland Ave., plans dormitories and additions to Tennessee School for Deaf, and Eastern State Hospital for the Insane, $175,000, also athletic field for Tennessee School for Deaf, $10,000. A. Peay, governor.

Tenn., Memphis—High School—Bd. Educ. takes bids about Mar. 26, 3 story, T shape, 180 x 250 ft., rein.-con. and brick, Lauderdale St. $200,000. Regan & Weller, 834 Bank of Commerce Bldg., archts.

Tenn., Nashville — Market House — City plans market house, on Public Square. To exceed $150,000. H. E. Howe, mayor.

O., Cleveland — Dormitory — Schauffler Missionary Training School, c/o R. Clapp, pastor, 5111 Fowler Ave., having plans prepared by C. W. Hopkinson, 900 Rose Bldg., 3 story and basement, brick, steel and concrete, Fouber Ave. $175,000.

O., Cleveland — Apartment — L. Duchon, 515 Ulmer Bldg., had plans prepared by A. F. Janowitz, 811 Prospect Ave., 2 story and basement, 38 x 144 ft., brick and timber, Holyoke Ave. $150,000.

O., Lakewood (Cleveland P. O.)—Church—Fifth Church of Christ Scientist, c/o W. C. Jones, 1st Reader, Schofield Bldg., Cleveland, plans brick and steel, West 117th St. $150,000. Engineer and architect not selected.

O., Lakewood (Cleveland P. O.)—Theatre, etc.—H. Robbins, Hippodrome Bldg., and M. Rubin, Ulmer Bldg., Cleveland, having plans prepared by Braverman & Havermaet, 208 Ulmer Bldg., Cleveland, 1, 2 and 3 story, brick, steel and concrete theatre, store and office building and store, office and apartment building, Madison Ave., and Hilliard Rd. $700,000.

O., Mansfield—Home—Richland Co., plans Children's home. $200,000 bonds voted. Noted Oct. 23.

O., Steubenville—Theatre—G. Shafer, 823 Main St., Wheeling, West Va., plans theatre in downtown dist., here. $500,000.

Mich., Detroit—Bank and Office—Detroit Trust Co., Fort and Shelby Sts., plans 2 story and basement, rein.-con. brick and

Buildings—Commercial (Continued)

steel, plain foundation, Fort St. Engineer and architect not selected.

Mich., Mt. Clemens—Hospital—Childrens Orthopedic Hospital, having plans prepared by A. Kahn, 1000 M rquette Bldg., Detroit, 4 story and basement, rein.-con., brick and steel, plain foundation. $150,000.

Ill., La Grange—Church—Emanuel Congregation, E. S. Humphreys, secy., having plans prepared by Marshall & Fox, 721 North Michigan Ave., Chicago, 2 story and basement, concrete, brick and stone church. $250,000. Noted Jan. 22.

Wis., Milwaukee—Orchestra Hall, Office and Store—Group of citizens represented by M. Rice, 414 Milwaukee St., having preliminary plans prepared by Judell & Bogner, 445 Milwaukee St., 11 story and basement, 120 x 200 ft., brick, steel and concrete, plain foundation. $1,750,000.

Ia., Ames — Memorial Union — Ames Alumni Assn., M. J. Riggs, pres., having plans prepared by Pond & Pond, 64 East Van Buren St., Chicago, Ill., 3 story and basement, rein.-con., brick and stone, at Iowa State College. $1,000,000.

Kan., Independence—Temple—York Rite Masonic Lodge, c/o R. Schultz, grand master, making preliminary plans 2 or 3 story, rein.-con., brick and stone temple. $150,000. Engineer and architect not selected.

Kan., Kansas City — Court House — W. Beggs, clk. Wyandotte Co., takes bids about May 1, 6 story, 134 x 222 ft., rein.-con. and stone court house. $1,000,000. Gilham, Cook & White, 409 Interstate Bldg., Kansas City, engrs., Wight & Wight, 1st Natl. Bank Bldg., archts. Noted Mar. 5.

Mo., Kansas City — Hotel — Park Lane Syndicate having plans prepared by G. B. Post & Sons, 318 Bryant Bldg., 5 story and basement, U shaped, 200 ft. front, rein.-con., plain foundation, 46th St. and Mill Creek Parkway. $850,000.

Mo., Kansas City—Mausoleum—Masonic Lodge, Federal Reserve Bank Bldg., having plans prepared by R. Peden, Armour and Troost Sts., 1 story, 134 x 196 ft., rein.-con. and marble, at Mt. Moriah Cemetery. $1,000,000.

Mo., St. Louis — Hospital — City having preliminary plans prepared by L. R. Bowen & E. E. Christopher, 301 City Hall, rein.-con., brick, stone and steel, Cottage, Kennerly, Goode and Whittier Sts. $1,250,000.

Mo., St. Louis—Office—Puritan Oil Corp., 35 West Ferry St., plans 10 story and basement, 125 x 140 ft., rein.-con., brick and stone, Washington and Theresa Aves. $500,000.

Mo., St. Louis — Theatre — Shubert Theatrical Interests, 225 West 44th St., New York City, soon takes bids rein.-con., brick, stone and terra cotta, 13th and St. Charles Sts., here. $500,000. T. P. Barnett & Co., Arcade Bldg., and H. J. Krapp, 116 East 16th St., New York City, archts.

Tex., Austin—Courthouse—Travis Co., c/o S. G. Matthews, judge, plans courthouse. $500,000. Engineer and architect not selected.

Tex., Houston—Office—Neils Esperson Estate, c/o N. Esperson, 1611 2nd Natl. Bldg., having plans prepared by J. Eberson, 212 East Superior St., Chicago, and soon takes bids 24 story and roof garden, 151 x 155 ft., rein.-con., steel, cast stone, terra cotta and brick, Travis St. and Rush Ave. $2,000,000.

Tex., Houston—Terminal Warehouse—Missouri, Kansas & Texas Ry., Scanlan Bldg., having plans prepared by G. B. Post & Son, 1003-7 Pioneer Trust Bldg., Kansas City, Mo., 1 and 6 story, rein.-con., brick and stone, Main St. along Missouri, Kansas and Texas Ry. tracks. $3,000,000.

Tex., Pittsburg—School—J. W. Westbrook, archt., 407½ North Bishop St., Dallas, prepared plans and takes bids latter part of March, rebuilding school recently destroyed by fire, here, for Owner, c/o S. Fleming, secy. $150,000. Noted Jan. 29.

Tex., Waco — Hospital — City and McLennan Co. plan election $200,000 bonds hospital. Engineer and architect not announced.

Tex., Wichita Falls — Warehouse — W. Blair, 411 Magnolia Bldg., Dallas, having plans prepared by J. R. Pelich, 214 W. T. Waggoner Bldg., Ft. Worth, 8 story and basement, rein.-con. and brick, plain foundation, here. $400,000.

Okla., McAlester—Court House—Pittsburg Co. defeated $300,000 bonds for new court house. Noted Jan. 29.

Okla., Oklahoma City—Office and Store—J. W. Mann, Cotton Exch. Bldg., having preliminary plans prepared by Hawk & Marr, Cotton Exch. Bldg., 10 story and basement, 75 x 140 ft., rein.-con., plain foundation, 2nd and Robinson Sts. $350,000.

Okla., Tulsa—Church, etc.—Sacred Heart Roman Catholic Congregation, c/o F. Kelley, bishop, making preliminary plans converting present church into school and constructing 1 and 2 story, concrete, brick and steel addition, parish house, etc. $300,000. Private plans.

Okla., Tulsa—Girls School—Benedictine Sisters, Guthrie Mother Mechtilde, Mother Superior, purchased site and plans girls school, here. $150,000. Engineer and architect not selected.

Wash., Seattle — Apartment — H. G. Hammond, archt., Alaska Bldg., takes bids about Apr. 3, 4 story and basement, 118 x 120 ft. apartment, 1218 Terry Ave., for A. W. Cassells, L. C. Smith Bldg., $160,000.

Ore., Astoria—Hotel, etc.—W. W. Lucas, archt., Portland, making plans and takes bids about Apr. 1, 3 story, 95 x 200 ft., rein.-con. and brick hotel, theatre and store building, plain foundation, Commercial, Bond and 11th Sts., here, for E. P. Hawkins, Astoria. $200,000.

Calif., Berkeley—Store and Office—Central Berkeley Building Co., Inc., c/o W. H. Ratcliffe, Jr., archt., Mercantile Bank Bldg., having preliminary plans prepared, 6 story (ultimately 12 story) and basement, steel, brick and concrete, Center St. and Shattuck Ave. $500,000.

Calif., Beverly Hills—School—G. A. Howard, Jr., archt., Story Bldg., Los Angeles, making preliminary plans group of 1 story, brick school buildings and auditorium with 330 seating capacity. $150,000 or more. Owner's name withheld.

Calif., Bakersfield—School and Rectory—St. Francis Catholic Church, having plans prepared by I. E. Lovelace, 4027 Kansas St., San Diego, rein.-con. and hollow tile school and rectory. $150,000.

Calif., Emeryville—School—Plans election bonds to exceed $150,000 for high school for Emeryville High School Dist.

Calif., Hollywood — Church and Sunday School — Thirteenth Church of Christ Scientist, c/o Allison & Allison, archts., Hibernia Bldg., Los Angeles, having plans prepared, rein.-con., Edgemont Blvd. $350,000.

Calif., Los Angeles — City Hall — City having plans prepared by Curlett & Beelman, Union Bank Bldg., fireproof city hall, on block bounded by Temple, Main, 1st and Spring Sts. $5,000,000 available through bond issue.

Calif., Los Angeles—Loft—B. M. Precita, archt., and E. R. Newcomb, engr., both Pantages Theatre Bldg., soon take bids 12 story and basement, 41 x 58 x 160 ft., rein.-con., Los Angeles St. near 11th St., for A. S. Theberge, 715 Camden Dr., Beverly Hills. Noted Feb. 12.

Calif., Los Angeles—Service Station—City having plans prepared by R. L. Smith, 833 South Spring Sts., altering and constructing 4 story, 28 x 60 ft., rein.-con. and brick, addition to connect service station to garage, 2nd and Hill Sts. $160,000.

Calif., Los Angeles—Store and Office—J. J. Warrick, 2446 Inverness Ave., having plans prepared by J. J. Frauenfelder, Story Bldg., 3 story and basement, approximately 100 x 150 ft., rein.-con., Vermont Ave.

Calif., Los Angeles—Theatre and Store—National Theatres, Inc., c/o F. Stiff, archt., 1251 4th Ave., having plans prepared 1 story, 140 x 200 ft., rein.-con., Mesa Dr. $200,000.

Calif., Los Angeles—Warehouse—Southwestern Harbor Co., c/o Noerenberg & Johnson, archts., Railway Bldg., having plans prepared, 2 story and basement, 80 x 150 ft., rein.-con., Atlantic St.

Calif., San Francisco—Apartment—F. E. Norman, c/o W. F. Gunnison, archt., 57 Post St., having plans prepared 5 story and basement, 100 x 105 ft., rein.-con., 20th and Valencia Sts. $165,000.

Calif., San Francisco—Hotel—Whitcomb Hotel, Market St., having preliminary plans prepared by G. Rushforth, 254 Pine St., 5 story and basement, rein.-con. and steel annex, Market St., near 8th St. To exceed $500,000.

Calif., San Francisco—School—City and San Francisco Co. having plans prepared by J. Reid, Jr., First Natl. Bank Bldg., fireproof annex to Brete Harte School. $150,000 or more.

Calif., San Francisco—Tabernacle—Glad Tidings & Bible Tabernacle, c/o W. F. Gunnison, archt., 57 Post St., having preliminary plans prepared 130 x 137 ft., steel and concrete, Ellis St. $250,000.

Calif., San Jose—Theatre—West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles, plans fireproof theatre, approximately 2,500 seating capacity, 1st and San Carlos Sts. To exceed $150,000.

Calif., Santa Barbara — Auditorium and Administration — State Teachers College, Sacramento, having plans prepared by G. B. McDougall, state archt., Forum Bldg., Sacramento, fireproof auditorium and administration building, here. $150,000.

Calif., Susanville—Hotel—Citizens Com. (being organized) having plans prepared by F. J. DeLongchamps, Gazette Bldg., Reno, Nev., Mt. Lassen Hotel, fireproof construction. $160,000.

Calif., Whittier—School—Whittier College having preliminary plans prepared by Allison & Allison, Hibernian Bldg., Los Angeles, fireproof housing exhibit, music hall, auditorium and club rooms. $300,000.

Que., Baie St. Paul — College — School Comn. having plans prepared by Bergeron & Lemay, Quebec, 4 story, 60 x 170 ft. college. $175,000.

Que., Quebec — Church — H. Laberge, archt., Quebec, preparing plans 62 x 200 ft. church. $150,000. Owner's name withheld.

Que., Quebec—Hotel—Ross & McDonald, Montreal, archts., preparing plans hotel, here. $200,000. Owner's name withheld.

Que., Quebec—Noviciate, Infirmary, etc.—Freres des Ecoles Chretieunes, Brother Olippius, principal, Commercial Academy, plans new noviciate, scholasticate and infirmary. $150,000. Engineer and architect names withheld.

B. C., Vancouver—Hotel—McCarter & Nairne, archts., 509 Richards St., preparing plans and take bids about May 1, 8 or 10 story, rein.-con., plain foundation, Seymour St. $1,000,000. Owner's name withheld.

BIDS DESIRED

Mass., Attleboro—Hospital—Mar. 18, by Strudy Memorial Hospital, 3 story and basement, brick, stone and concrete, plain foundation. $200,000. Kendall, Taylor & Co., 142 Berkeley St., Boston, archts. Noted Jan. 29.

Mass., Brighton (Boston P. O.)—Chapel—St. Gabriels Monastery, 159 Washington St., taking bids 1 story and basement, brick and stone, Washington St. $150,000. Maginnis & Walsh, 100 Boylston St., Boston, archts. Noted Sept. 4.

Mass., Framingham — Store — S. S. Kresge Co., Kresge Bldg., Detroit, Mich., taking bids 2 story and basement, rein.-con. and brick, Irving St., here. To exceed $150,000. Private plans.

Mass., Newton Center (br. of Boston)—Dormitory—Newton Rest Assn., Inc., c/o H. H. Kendall, treas., 876 Beacon St., Boston, taking bids 1 and 2 story and basement, 100 x 200 ft., brick dormitory, here. To exceed $150,000. Kendall, Taylor & Co., 142 Berkley St., Boston, archts. Noted Feb. 26.

Mass., Newtonville—High School—City of Newton, H. Fitts, city chn., City Hall, taking bids 3 story and basement, brick and stone, Elm Rd. and Walnut St., here. $600,000. Haven & Hoyt, 220 Devonshire St., Boston, archts. W. A. Richardson, 80 Boylston St., Boston, engrs. Noted Feb. 26.

Mass., Quincy (Boston P. O.)—Theatre, Store and Office—M. Allen, c/o Tuck & Co., archts., 636 Warren St., Roxbury, taking bids 3 story and basement, 70 x 200 ft., brick and steel, plain foundation. Follaston Sect., here. $200,000. Noted Jan. 15.

R. I., Olneyville (Ind. Sta. Providence)—Club—Providence Boys Club taking bids 2 story and basement, 70 x 170 ft., brick, Atwood St. $160,000. K. C. Richmond, 526 Grosvenor Bldg., Providence, archts. Noted Oct. 30.

Conn., Hartford — Apartment — I. Sherman, 740 Albany St., taking bids 5 story, 80 x 90 ft., brick, Farmington Ave. $150,000. F. C. Walz, 407 Trumbull St., archt.

Conn., Middletown—Business—J. Poliner & Sons, Main St., taking bids 3 story and basement, brick and steel business building. $150,000. Berenson & Moses, 30 Alyn St., archts. Noted Jan. 29.

Conn., New Britain — Business — L. Rafhael, 77 Grove Hill St., taking bids 3 story and basement, 85 x 90 ft., brick, concrete and stone, plain foundation, West Main St. $150,000. W. H. McKay, 87 West Main St., archt.

Conn., New Britain—Store and Office—L. Raphael, 77 Grove Hill, taking bids 3 story and basement, 75 x 90 ft., brick and stone store and office building. $150,000. W. H. McKay, 87 West Main St., archt.

N. Y., Buffalo—School—Mar. 27, by Bd. Educ., 901 Genesee Bldg., 2 story and basement, 110 x 130 ft., rein.-con. and brick, Northland Ave. To exceed $350,000.

N. Y., New York—Store and Office—J. Tishman & Son, Inc., 280 Madison Ave., will build brick, steel and stone, plain foundation, 18 East 34th St. $2,500,000. Work will be done by separate contracts under owners supervision. Buchman & Kahn, 49 West 45th St., engrs. and archts.

N. J., Camden—Lodge—Mar. 16, by J. C. Jefferies, archt., 312 Market St., 3 story and basement, 70 x 150 ft., brick and steel, plain foundation, 7th and Cooper Sts., for

Buildings—Commercial (Continued)

B. P. O. E. 293, Federal and Bway. Sts. Former bids rejected.

Pa., Altoona — Church — Mar. 20, by Mountain City Hebrew Reform. Congregation, c/o Stanley & Scheibel, archts., 1301 Wick Bldg., Youngstown, O., 2 story and basement, 60 x 147 ft., steel, concrete and stone, Chestnut Ave. $150,000.

Pa., Johnstown—City Hall—Mar. 17, by City Council, 4 or 5 story and basement, 75 x 100 ft., steel and brick, Washington St. $200,000. Hersh & Shollar, Commerce Bldg., Altoona, archts. Noted Feb. 19.

Pa., Phila.—Fire House Headquarters—Mar. 16, by Bureau Fire, 215 City Hall, 3 story and basement, 107 x 129 ft., rein.-con. and brick, plain foundation, Broad and Race Sts. $250,000. Private plans.

Pa., Phila.—Store and Apartment—Mar. 17, by Murphy & Talley, archts., Drexel Bldg., 4 story and basement, 185 x 242 ft., brick and steel, plain foundation, Frankford Ave. and Foulkrod St., for W. Freihofer, 20th and Indiana Sts. Noted Jan. 1.

Tenn., Memphis — Store — Hanker & Cairns, Hill Bldg., taking bids brick store building, South Main St. and Calhoun Ave., for Pendergrast Estate, J. C. Pendergrast, agt. $150,000.

O., Canton — School — Mar. 19, by Bd. Educ., 2 story and basement brick, steel and concrete additions to Belden and Stark Schools. $150,000. Richards, McCarthy & Bulford, 594 East Broad St., Columbus, archts.

O., Cincinnati—School—Mar. 23, by Bd. Educ., Denton Bldg., 3 story and basement, 250x350 ft., rein.-con., brick and terra cotta, Cedar Ave. $400,000. Elzner & Anderson, Denton Bldg., archts.

O., Norwood—School—Mar. 23, by Bd. Educ., 1 story and basement, rein.-con., brick and terra cotta addition to Norwood View School, plain foundation, Hannaford St. $200,000. S. Hannaford & Sons, 1024 Dixie Terminal Bldg., Cincinnati, archts. Noted Nov. 27.

Ind., Mt. Vernon—Memorial—Mar. 30, by C. E. Werking & Sons, archts., Richmond, 2 story and basement, 200 x 260 ft., brick memorial building, for Comrs. Posey Co. $200,000. Noted Mar. 5.

Mich., Dearborn—Theatre and Recreation—Stahl & Kingsley, archts., 628 McKerchey Bldg., Detroit, taking bids and open same about Mar. 20, 2 story and basement, 109 x 210 ft., rein.-con., brick and steel, plain foundation, Michigan Ave., for Ford Temple Theatre Mutual Investment Co. $200,000.

Mich., Detroit — Hospital and Nurses' Home—Mar. 23, by H. H. Prenzlauer, secy. Dept. Pub. Welfare, Clinton and Raynor Sts., 5 and 15 story and basement, rein.-con., brick and steel, plain foundation, Antoine St. $900,000. Carey & Esselstyn, 602 Hoffman Bldg., archts. Noted June 12.

Ill., Chicago—Hotel—Mar. 17, by Holabird & Roche, archts., 104 South Michigan Ave., 25 story, basement and sub-basement, 660 x 660 ft., rein.-con., brick and steel, plain foundation, 7th St. and Michigan Ave., for Stevens Hotel Co. $2,000,000. Noted Oct. 25.

Wis., Fond du Lac—Theatre, Store and Office—Mar. 18, by C. W. and G. L. Rapp, archts., 190 North State St., Chicago, Ill., 2 and 3 story, 120 x 190 ft., brick, concrete and terra cotta, plain foundation, Main St., here, for W. Schroeder, 86 Michigan St., Milwaukee. $350,000.

Wis., Milwaukee—Apartment—Mar. 20, by J. Topzant, archt., 144 Oneida St., 3 story and basement, 97 x 105 ft., brick and tile, plain foundation, Oakland Ave., for S. H. Jacobson, 35 South Water St. $150,000.

Wis., Wausau—Bank and Office—Mar. 18, by Childs & Smith, archts., 720 Michigan Blvd., Chicago, Ill., 8 story and basement, 50 x 122 ft., brick, stone, steel and concrete, plain foundation, here, for Amer. Natl. Bank, 3rd and Scott Sts. $350,000. Noted Jan. 29.

Ia., Creston — School — Mar. 25, by Bd. Educ., 2½ story and basement, 154 x 208 ft., rein.-con., brick and stone school. $260,000. Keffer & Jones, Masonic Temple, Des Moines, archts. Noted Jan. 8.

Ia., Sioux City—Lodge—Mar. 17, by Epiphany Council, Knights of Columbus, J. C. Mullaney, chn. building comn., Grain Exch. Bldg., 2 story and basement, 76 x 201 ft., rein.-con., brick and stone, 8th and Douglas Sts. $150,000. W. L. Steele, 502 U. B. Bldg., archt.

Minn., Minneapolis—School—Mar. 16, by Bd. Educ., 305 City Hall, two 2 story and basement, rein.-con., brick, tile and stone schools, one at Oliver and 10th Aves. N., and other at 44th and Girard Aves. N. $125,000 each. G. F. Womrath, business supt.

Minn., St. Paul — Mar. 16, by St. Paul Gas Light Co., F. C. Hoffman, secy., 6th and Cedar Sts., 3 story and basement, 100 x 228 ft., rein.-con., brick and stone, Rice and Atwater Sts. $150,000. Toltz, King & Day, Builders Exchange, archts.

Kan., Hiawatha—Jail and Court House—Mar. 20, by W. E. Hulse & Co., archts., Stamey Hotel Bldg., Hutchinson, 3 story and part basement, 91 x 106 ft., rein.-con. and stone, for Brown Co. $350,000.

Mo., Baltimore—Apartment—Mar. 16, by F. J. and J. H. Thuman, archts., 803 Park Ave., 4 story and basement, brick, plain foundation, Harford Rd. and Parkside Dr., for Arcadia Building Corp., c/o architects. $150,000. Noted Jan. 8.

Mo., Carthage—College—Mar. 18 (extended date) by Bonsack & Pearce, archts., Republic Bldg., St. Louis, and P. K. Simpson, consult. archt., Carthage, 3 story, 55 x 246 ft., stone, steel and concrete, for Ozark Weslyan College, c/o W. W. King, pres. $250,000. Noted Mar. 6.

Mo., Oran—School—Mar. 16, by G. C. Blocker, secy. Bd. Educ., 2 story and basement, brick and concrete school. A. F. Lindsay, Sikeston, archt.

Ark., Little Rock—Church—Mar. 24, by C. L. Thompson, archt., 504 Southern Trust Bldg., 2 story, 125 x 145 ft., rein.-con., brick and hollow tile, 16th and Louisiana Sts., for Winfield Memorial Methodist Episcopal Congregation. Noted Jan. 29.

Tex., Harrisburg—High School—Mar. 17, by L. A. Glover, archt., 604 Binz Bldg., Houston, brick, stone and rein.-con., here, for Owner, c/o J. S. Deady, pres. $200,000. Noted Nov. 6.

Tex., New Braunfels—Hotel—H. Landa, taking bids 6 story and basement, tile brick and stucco, plain foundation. $150,000. H. T. Phelps, Hicks Bldg., San Antonio, archt.

Okla., Wagoner—School—Election Mar. 20, $150,000 bonds, for 2 story and basement, 110 x 190 ft., rein.-con. and brick, plain foundation, Washington St. $150,000. A. J. Love & Co., Lynch Bldg., Tulsa, archts.

Calif., Los Angeles—Store and Office—Curlett & Beelman, archts., Union Bank Bldg., San Francisco, taking bids 12 story and basement, 145 x 175 ft., brick and steel, 7th and Main Sts., for Seventh and Main Building Co., c/o architects.

Calif., Pasadena—Warehouse—Dunford & Brandner, archts., 1017 Lincoln Bldg., Los Angeles, taking bids 3 story, 60 x 100 ft., rein.-con. warehouse, here, for Miller Transfer & Storage Co., 60 West Green St.

Calif., San Francisco—School—Apr. 1, by Pub. Wks., LeConte School, fireproof, Harrison St. near Precita Ave., for City and San Francisco Co. $331,000. J. Reid, Jr., city archt.

BIDS RECEIVED

N. Y., New York—Armory—Armory Bd., Municipal Bldg., reconstructing Squadron A armory, Madison Ave. and 94th St., from M. Miller Constr. Co., 706-6th Ave., A $168,000, B $1,240. Noted Feb. 26.

N. Y., Woodhaven (branch Jamaica)—School—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, Mar. 4, general contract addition to P. S. 65, 77th St., here, for Bd. Educ., 500 Park Ave., New York City, from Eastern Constr. Co., 110 West 40th St., New York City, $310,310; heating, from Alvord & Swift, Inc., Grand Central Terminal, New York City, $47,178. Noted Feb. 19.

Pa., Phila. — Trade and Continuation School—Bd. Educ., general contract 5 story and basement, 148 x 160 ft. trade and continuation school, 13th and Brandywine Sts., from McCloskey Co., 1600 Thompson St., $833,814; plumbing, from Bolman Bros., 5th and Cumberland Sts., $32,986; heating, from Mellon Co., 4415 Ludlow St., $77,977. Noted Jan. 15.

Md., Baltimore—School and Gymnasium—Bd. Awards, 3 story and basement, 211 x 266 ft., rein.-con. and brick, plain foundation, Fait Ave., 1st and Hudson Sts., from J. L. Robinson Constr. Co., 1130 West Lafayette Ave., $574,586. Noted Feb. 19.

O., Cleveland—Infirmary—State Building Comn., c/o J. E. Harper, dir. Pub. Welfare, Columbus, Feb. 27, remodeling and construcing 3 story, 30 x 40 ft., brick, steel and concrete addition, Turney Rd., here, from Reaugh Constr. Co., 2861 East 51st St., $161,400. Noted Feb. 12.

O., Lancaster—School—Bd. Educ. Fairfield Co., P. H. Snyder, clk., 2 story and basement, 80 x 125 ft., rein.-con. and brick in Baltimore and Basil, from Taylor & Linn, 6 South 5th St., Zanesville, $[illegible]. Noted Feb. 19.

Calif., Long Beach—High School—Bd. Educ., general contract Woodrow Wilson High School, rein.-con., from J. D. Sherer & Son, 1865 East Anaheim St., $395,249. Noted Nov. 27.

CONTRACTS AWARDED

Me., Livermore Falls—High School—A. P. Lewis, chn. Town Comn., 2 story and basement, 55 x 160 ft., brick and cast stone, to C. T. Reynolds Co., 46 Stone St., Augusta. Archts. est. $150,000.

Me., Portland—Apartment—Casso & Son, Pine St., will build 5 story, 55 x 120 ft., brick, plain foundation, Pine St., by day labor. $150,000. O. E. Emerson, 58 Sawyer St., archt.

N. H., Berlin—High School—City Council, 2 story and basement, 112x160 ft., brick and stone, plain foundation, to T. F. Moreau Co., 468 Lisbon St., Lewiston, Me. Archts. est. to exceed $200,000. Noted Mar. 5.

N. H., Nashua—Nurses Home—Nashua Memorial Hospital, 3 story and basement, 35 x 100 ft. nurses home, brick and stone, to Nashua Building Co., 95 Temple St. Archts. est. $150,000. Noted Jan. 22.

Mass., Beverly Farms—Post Office—S. Knight & Sons, c/o E. S. Read, archt., 177 State St., Boston, 2 story, brick, here, to Roberts & Hoar, Manchester, N. H. U. S. Government, lessee. Noted Feb. 19.

Mass., Boston—Apartment—L. S. Kaufman, 94 Queensbury St., will build 8 story and basement, 60 x 110 ft., rein.-con., brick and steel, plain foundation, 1802 Commonwealth Ave., by day labor. $350,000. G. N. Jacobs, 4 Park St., archts. Noted Feb. 19.

Mass., Brookline — Apartment—Warwick Inc., 8 story and basement, 93 x 119 ft., rein.-con., brick and limestone, plain foundation, to M. E. Ryan, 2 Central Sq., Cambridge. Archts. est. $425,000.

Mass., Cambridge (Boston P. O.) — Theatre—W. Tufts, c/o Tuck & Co., archts., 636 Warren St., Roxbury, National Theatre, 1 story, 80 x 140 ft., brick and steel, 2408 Massachusetts Ave., here, to J. F. Greenwood, 101 Tremont St., Boston. Archts. est. $150,000. Noted Dec. 25.

Mass., Hyannis — Fire Station — Fire Dept., 2 story and basement, rein.-con. and brick, plain foundation, to Bristol Constr. Co., Granite Bldg., Fall River. Archts. est. $150,000. Noted Feb. 19.

Mass., Lowell — Bank — Union Natl. Bank. 61 Merrimac St., 2 story, brick and stone, Merrimac St., to I. G. Hersey & Sons Co., 75 Wareham St., Boston. Archts. est. $150,000 or more.

Mass., Somerville—Apartment—J. E. Locatelli, 151 Highland Ave., will build 5 story and basement, rein.-con. and timber, plain foundation, 156-158 Summer St., by day labor. $200,000. Private plans.

R. I., Providence—High School—School Com., City Hall, 3 story and basement, 75 x 105 ft., brick and steel addition to Commercial High School, Spring St., to E. Turgeon, 86 Weybosset St., $172,415. Noted Mar. 5.

Conn., Norwalk — Nurses' Home — Norwalk Hospital, Stevens St., 4 story and basement, 54 x 137 ft., brick, stone and steel, to Hewlett Co., 1st Natl. Bank. Bldg., Bridgeport. Archts. est. $150,000.

N. Y., Brooklyn — Apartment — Baltic Building Corp., c/o E. Holmgren, archt. and engr., 371 Fulton St., will build brick, steel and stone, plain foundation, 6th Ave. and 61st St., by day labor. $200,000.

N. Y., Brooklyn—Apartment—Cherry & Moscowitz, 215 Montague St., will build brick, steel and stone, plain foundation, Herkimer St., by day labor. $200,000. M. Morris & Son, 1192 Dean St., archts.

N. Y., Brooklyn—Apartment—S. Cohen, c/o Seelig & Finkelstein, archts. and engrs., 44 Court St., will build brick, steel and stone, plain foundation, East 16th St., by day labor. $150,000.

N. Y., Kings Park—Hospital—State Hospital Comn., Albany, constructing buildings A to R (inclusive), also T, at Soldiers and Sailors Memorial Hospital, here, to M. Kantrowitz, 20½ Market St., Albany, $2,527,000. Noted Jan. 15.

N. Y., New York—Academy—Academy of Medicine, c/o York & Sawyer, archts., 50 East 41st St., 14 story, brick and stone, 5th Ave. and 103rd St., to M. Eidlitz & Son, Inc., 41 East 42nd St. Archts. est. $750,000. Noted May 29.

N. Y., New York—Apartment—G. N. Hal Realty Corp., c/o Rotholz & Golden, archts. and engrs., 311 Lenox Ave., will build 6

Buildings—Commercial (Continued)

story, brick, steel and stone, plain foundation, Townsend Ave. and 174th St., by day labor. $225,000.

N. Y., New York—Apartment—Rosedale Eng. Co., c/o Meisner & Uffner, archts., 505 East Tremont Ave., will build 5 story, brick, steel and stone, plain foundation, St. Lawrence Ave., by day labor. $150,000.

N. Y., New York—Apartment—Samsol Realty Co., c/o H. I. Feldman, archt., 562 5th Ave., will build 6 story, brick, steel and stone, plain foundation, Bryant Ave. and 174th St., by day labor. $200,000.

N. Y., New York — Apartment — Sideo Realty Co., c/o Moore & Landseidel, archts., 148th St. and 3rd Ave., will build 6 story, brick, steel and stone, plain foundation, Sheridan Ave., by day labor. $200,000.

N. Y., New York — Commercial — Two Hundred Madison Ave. Corp., c/o Warren & Wetmore, archts., 16 East 47th St., 25 story, brick, steel and stone, plain foundation, Madison Ave. between 35th and 36th Sts., to Dwight P. Robinson & Co., Inc., 125 East 46th St.

N. Y., New York—Loft—Ralston Realty Co., c/o G. and E. Blum, archts. and engrs., 505 5th Ave., will build brick, steel and stone, plain foundation, 36th St. and 8th Ave., by day labor. $1,500,000.

N. Y., New York—School—Church of Sacred Heart, 1253 Shakespeare Ave., 3 story, brick, steel and stone, plain foundation, Nelson Ave., to J. Mulligan, 2692 Creston Ave. Archts. est. $250,000.

N. Y., New York—School—Church of St. Simon Stock, c/o W. F. Fanning, archt., 522 5th Ave., brick, steel and stone, plain foundation, Valentine Ave. and 182nd St., to W. Kennedy Constr. Co., 215 Montague St., Brooklyn. Archts. est. $200,000. Noted Sept. 11.

N. Y., New York—School—Mary Help of Christians Roman Catholic Church, c/o Salvati & LeQuornick, archts., 371 Fulton St., Brooklyn, 4 story, brick, steel and stone, plain foundation, East 11th St. near Ave. A, to T. O'Reilly & Son, 17 East 49th St.

N. Y., New York—Theatre—S. Brill, 1540 Bway., brick, steel and stone, plain foundation, Dyckman St., to M. Shapiro & Son, 1540 Bway. Archts. est. $250,000.

N. Y., New York — Theatre — L. Silver, c/o Margon & Glaser, archts. and engrs., will build brick, steel and stone, plain foundation, Walton Ave., by day labor. $200,000.

N. Y., Tonawanda—High School—Bd. Educ., high school, Main St., to Braas Bros. Co., 1110 Whitney Ave., Niagara Falls, $517,000. Noted Feb. 12.

Pa., Millvale—School—Bd. Educ. general contract 2 story and basement, 98 x 164 ft., brick on hollow tile, to A. and S. Wilson Co., 541 3rd Ave., Pittsburgh, $121,-660. Noted Feb. 19.

Pa., Phila.—Apartment—Lincoln Drive Apartment Corp., c/o L. H. Cahan, pres., Bankers Trust Bldg., 14 story and basement, 63 x 334 ft., brick and steel, plain foundation, Lincoln Dr. and Johnson St., to Longacre Constr. Co., 345 Madison Ave., New York City. Archts. est. $1,800,000.

Pa., Phila.—Theatre, Store and Office—Equitable Realty & Holding Corp., c/o A. F. Gilbert, archt. and engr., 358 5th Ave., New York City, 22 story, 224 x 230 ft., brick, steel and stone, plain foundation, Broad and Locust Sts., to Lynch Constr. Co., Inc., 1 Pershing Sq., New York City. Archts. est. $6,000,000.

Pa., Pittsburgh — Hospital — Pittsburgh Hospital Assn., Frankstown, general contract 4 story and basement addition, Washington Blvd., to A. and S. Wilson, 541 3rd Ave. Archts. est. $300,000. Noted Feb. 19.

Pa., Pottstown — Theatre — Pottstown Theatre Co., c/o G. E. Bennethan, 1307 Vine St., 3 story and basement, 60 x 163 ft., brick and steel, plain foundation, to F. H. Keiser, Pottstown.

Md., Denton — School — Building Com. Pub. School Bd., 3 story and basement, 65 x 134 ft., brick, plain foundation, to J. R. Dashiell, Princess Anne, $150,000. Noted Feb. 26.

Md., Baltimore — Apartment — Parker, Thomas & Rice, archts., Union Trust Bldg., 4 or 5 story, brick and steel addition, plain foundation, 3404 St. Paul St., to Price Constr. Co., Maryland Trust Bldg. for Fenway Apartment Co., Union Trust Bldg. $150,000. Noted Feb. 19.

W. Va., Parkersburg—School—Bd. Educ., general contract Jefferson Graded School, 2 story and basement, rein.-con. and brick, to Central States Constr. Co., 1107 4th Ave., Huntington, $143,000.

Tenn., Memphis—Professional—Medical Arts Co., Inc., Bank of Commerce Bldg., 8 story, 58 x 150 ft. professional building, and 2 story 90 x 150 ft. garage, both rein.-con., brick and steel, Madison St., to Keeley Bros. Constr. Co., 2100 State St., East St. Louis, Ill. Archts. est. $750,000. Noted Oct. 2.

Tenn., Nashville — Bank and Office — Amer. Trust Co., 235 3rd Ave., P. D. Houston, pres., general contract 14 story, brick and steel, 3rd Ave. and Union Sts., to Hegeman-Harris Co., Nichol Bldg. Archts. est. $800,000. Noted Feb. 12.

Tenn., Nashville—Office—Cotton States Life Insurance Co., Stahlman Bldg., C. Loridans, pres., 10 story and basement, 82 x 194 ft., brick, steel and stone, 6th and Deaderick Sts., to Southern Ferro Concrete Constr. Co., 50 East Ellis St., Atlanta, Ga., approximately $500,000. Noted Mar. 5.

O., Bremen—High School—Bd. Educ., D. S. Miller, clk., 2 story and basement, 148 x 150 ft., rein.-con. and brick, to J. Huston & Co., Lancaster, $95,082. Noted Feb. 5.

O., Cleveland — Store and Office — Superior-Payne Co., c/o G. A. Grieble, archt., Sloan Bldg., 6 story and basement, 66 x 112 ft., brick and rein.-con., 1110 Superior Ave., to Crafts Constr. Co., Sloan Bldg. Archts. est. $300,000.

O., Warren — Bank and Office — Union Savings & Trust Co., R. A. Cobb, chn., 9 story and basement, 53 x 114 ft., brick, steel and concrete, to Selden Breck Co., Fullerton Bldg., St. Louis, Mo., $450,000. Noted Feb. 26.

Mich., Detroit—School—C. A. Gadd, bus. mgr. Bd. Educ., 1354 Bway. Ave., 2 story and part basement, rein.-con., brick and steel, plain foundation, Centerline Ave., to F. N. Cooper, 6370 Gratiot Ave., $558,885. Noted Mar. 5.

Wis., Milwaukee — Apartment — J. Hunholz, 2310 Vliet St., concrete for 8 story and basement, 60 x 75 ft., brick and concrete, plain foundation, Mason St., to Cutler Constr. Co., 886 46th St. Archts. est. $300,000. Noted Feb. 12.

Wis., Milwaukee — School — School Bd., c/o F. Harbach, secy., 2 story and basement, 117 x 172 ft., brick, concrete and tile addition, plain foundation, Oklahoma Ave., concrete and excav., to Kroening Constr. Co., 39th Ave. and Mitchell St., $31,950; masonry, to Jahns & Knuth, 1331 28th St., $59,700; carpentry, to F. Kempinski, 1336 8th Ave., $61,856; structural steel, to Worden-Allen Co., Port Washington Ave., $12,492; heating, to J. E. Robertson Co., Wisconsin Ave., Wauwatosa, $29,768.

Wis., Wauwatosa—Dormitory—W. Coffey, mgr. Bd. Trustees Milwaukee Co. Institutions, general contract 3 story and basement, brick and concrete dormitory addition at asylum for chronic insane, plain foundation, to Immel Constr. Co., Dana Bldg., Fond du Lac, $674,000. Noted Jan. 22.

Ia., Cedar Rapids — Bank and Office — Merchants Natl. Bank, steel frame contract for 12 story and basement, 76 x 140 ft., 2nd Ave. and South 3rd St., to Iowa Steel Wks., 12th Ave. and South 4th St., $100,000. Noted Feb. 19.

Ia., Ottumwa—Hospital, etc.—St. Josephs Hospital, contract for completion 3 story and basement, rein.-con. and brick hospital, to Immel Constr. Co., Dana Bldg., Fond du Lac, Wis. Archts. est. $450,000. Noted Dec. 25.

Minn., Duluth—High School—C. A. Bronson, secy. Bd. Educ., 2nd St. E., general contract Junior High School, 3 story, 72 x 294 ft. academic building, 68 x 270 ft. domestic science building and 82 x 130 ft. gymnasium, rein.-con., brick and stone, 4th St. between 44th and 46th Aves. W., to Pfeffer Constr. Co., 402 Builders Exch. Bldg., $760,000.

Kan., Lawrence—Hotel—W. J. Hutson, c/o Eldridge Hotel, 6 story, 50 x 117 ft., rein.-con., brick and stone, to M. J. Green, Union Natl. Bank Bldg., Manhattan. Archts. est. $200,000. Noted Sept. 4.

Kan., Topeka—Home—Methodist Episcopal Congregation, general contract 3 story and basement, 42 x 88 ft. and 42 x 150 ft., concrete, brick and stone, Manson and College Sts., to A. W. Whitsett, 205 Western Ave., Topeka, $150,000 cost plus basis. Noted Mar. 5.

Mo., Kansas City—Auditorium—Kansas City Stock Yards Co., Live Stock Exch. Bldg., will build 3 story, 220 x 452 ft., and 220 x 260 ft., rein.-con. and steel, 23rd and Wyoming Sts., by day labor. C. E. Smith & Co., Ry. Exch. Bldg., St. Louis, engrs. and archts.

Mo., Kansas City—Hotel and Lodge—Gates City Lodge 522 A. F. and A. M., general contract 7 story and basement, 92 x 100 ft. hotel and lodge building, 3030 36 Troots Ave., to B. L. Elmer, 1004 West 33rd St. Archts. est. $300,000. Noted Jan. 1.

Mo., Kansas City—Hotel—J. N. McConnell, c/o R. Gornall, archt., 203 Bruening Bldg., 8 story and basement, 60 x 150 ft., rein.-con. and brick, 36th St. and Bway., to Collins Bros., 1600 Grand Ave. Archts. est. $500,000. Noted Dec. 11.

Mo., North Kansas City—High School—General contract 2 story and basement, 133 x 174 ft., rein.-con. and brick, plain foundation, to Fritzlen & Hufford, Liberty, $121,965; heating, plumbing and ventilating, to G. Foley Heating & Plumbing Co., 1002 East 19th St., Kansas City, $27,380. Noted Nov. 13.

Mo., St. Louis—Bank and Office—Cytron Mortgage Co., Title Guaranty Bldg., 2 story and basement, 42 x 127 ft., brick, concrete, stone and tile, 9th St., to A. H. Steil Constr. Co., 813 Chestnut St. Archts. est. $150,000.

Mo., St. Louis—Bank and Office—Security Natl. Bank, 310 North 8th St., altering and remodeling 6 story and basement bank and office building, for enlarged banking quarters, etc., 8th St., to Wimmer Constr. Co., Victoria Bldg.

Mo., St. Louis—Office and Store—F. J. and T. P. Saum, 713½ Chestnut St., will build 2 and 3 story and basement, brick, concrete and terra cotta, Grand St. and Franklin Ave., by day labor. 150,000. Private plans.

Tex., San Antonio—Hotel—Odd Fellows Lodge, c/o Crockett Hotel, 5 story and part basement, 48 x 72 ft., rein.-con., brick and stone addition, plain foundation, Crockett and Nacogdoches Sts., to W. C. Thrailkill, Moore Bldg., $159,025. Noted Jan. 8.

Okla., Muskogee — Temple — Masonic Building Assn., general contract 2 story and basement, 120 x 132 ft., stone, to Dougherty & Nichols Constr. Co., 416 Equity Bldg., 202,785. Noted Mar. 5.

Wash., Everett—Office—C. Williams and W. R. Svensson, 6 story and basement, 48 x 120 ft., brick and terra cotta, to Everett Building Co., Everett, $150,000.

Wash., Longview — Hospital — Directors Longview Memorial Hospital, 4 story and basement, 42 x 175 ft., masonry and steel hospital, incl. detached 1 story power house, Douglas St. and Oregon Way., to J. E. Bonnell & Son, 827 North Tacoma St., Tacoma. Archts. est. $300,000. Noted Jan. 15.

Wash., Seattle—Apartment—Owner, Horton Bldg., 6 story and basement, 60 x 104 ft., rein.-con. and timber, Pine and Boren Aves., to D. Nygren, Dexter-Horton Bldg. Archts. est. $155,000.

Ore., Portland—Hospital—City, general contract 5 story and tower, 94 x 129 ft., rein.-con., plain foundation, Portland Heights, to T. Muir, Henry Bldg., $157,353; plumbing, to J. F. Shea, 6 North 2nd St., $25,511; heating and ventilating, to Alaska Plumbing & Heating Co., 363 East Morrison St., $29,516.

Ore., Portland—School—Dist. 1, general contract 3 story and basement, 100 x 200 ft. school, Ainsworth St. and Interstate Ave., to Parker & Bamfield, 62 East 3rd St., $187,900; heating and ventilating, to Rushlight-Hastorff-Lord, Inc., 371 Hawthorne St., $38,800. Archts. est. $242,000.

Calif., Indio—Hotel—C. B. Stanford, 1808 West Main St., Alhambra, 2 story and basement, approximately 50 x 285 ft., brick hotel, to D. R. Stanford, 1808 West Main St.

Calif., Long Beach—Apartment—D. B. Carlin, 359 East 4th St., 4 story and basement, 90 x 115 ft., rein.-con., East 1st St., to C. A. Reed & Son, 359 East 9th St., $153,500.

Calif., Los Angeles—Hospital—California Lutheran Hospital Assn., 1414 South Hope St., general contract, 3 story, 100 x 250 ft., concrete, plain foundation, Hope St., near 15th St., to Los Angeles Planing Mill Co., 1815 Industrial St., $1,030,000. Noted Feb. 5.

Calif., Los Angeles — Store, Office and Theatre — Figueroa & Santa Barbara Realty Co., c/o W. S. Hebbard, archt., 534 I. W. Hellman Bldg., 1 and 3 story, 90 x 145 ft., rein.-con. and brick, Figueroa St. and Santa Barbara Ave., to Winter Constr. Co., 2400 West 7th St., approximately $200,000.

Calif., Los Angeles—Theatre—A. McSwain and associates, Los Angeles, 2 story, 114 x 150 ft., concrete, plain foundation, to Reed & Ritchie, 163 South Pacific Blvd., Huntington Park, $150,000. West Coast Theatres, Inc., Knickerbocker Bldg., lessee.

Calif., Los Angeles—Warehouse—Davies Warehouse Co., 413 East 2nd St., 4 story and part basement, 135 x 175 ft., rein.-con.,

Buildings—Commercial (Continued)

2nd St. and Central Ave., to W. E. Warne, Marsh - Strong Bldg., approximately $175,000.

Calif., Oakland — Apartment — E. Smith, 1636 Franklin St., 3 story and basement, brick, Foothill Blvd., to California Builders, 1636 Franklin St., $155,000.

Calif., Pasadena — High School — Bd. Educ., general contract Washington Junior High School, 2 story, brick, to W. T. Loesch, 110 North Euclid Ave., $139,500. Noted Mar. 5.

Calif., San Francisco—Apartment—Stock & Jose, c/o Baumann & Jose, archts., 251 Kearny St., will build 6 story and basement, brick and steel, Octavia and Sacramento Sts., by day labor. $165,000.

Calif., San Francisco—Apartment—Two Thousand One Hundred Ten Pacific Ave., Inc., 12 story and basement, rein.-con., Pacific Ave., to Bos & Quandt, Humboldt Bank Bldg. To exceed $300,000.

Calif., San Francisco — Exchange — Pacific Telephone & Telegraph Co., 333 Grant Ave., 4 story and basement, fireproof annex, Capp St., to Monson Bros., 251 Kearny St., approximately $153,000.

Calif., Wilmington — Theatre—A. M. Lupie, Canal and I Sts., 150 x 150 ft., rein.-con., Canal and I Sts., to L. A. Smith, Lily Fletcher Bldg., Los Angeles, $150,000.

Federal Government Work

BIDS DESIRED

Mass., Fort Warren — Substation Equipment—Mar. 22, by Quartermaster Boston Harbor, installing and alternating current substation equipment, here, and at Ft. Strong (Boston P. O.).

N. Y., Fort Wright (Fishers Island P. O.)—Repairs—Mar. 31, at office Quartermaster, repairs to wharf and rack; adv. E. N.-R. Mar. 12.

N. Y., New York—Dredging—Apr. 9, by U. S. Engineer Office, 2nd Dist., Room 616 Army Bldg., dredging and rock removal in New York and New Jersey Channels; adv. E. N.-R. Mar. 12.

Md., Baltimore—Drainage—Mar. 27, by Treas. Dept. at office Supervising Archt., Wash., D. C., separating drainage systems at U. S. Marine Hospital, here; adv. E. N.-R. Mar. 12.

D. C., Wash.—Power Cable, Chain Blocks, etc.—Mar. 17, at office A. L. Flint, Genl. purch. officer of Panama Canal, Wash., D. C., furnishing power cable, chain blocks, snatch blocks, twist drills, monel metal, brass, etc., by steamer free of all charges, on dock at either Cristobal (Atlantic port) or Balboa (Pacific port), Canal Zone, Isthmus of Panama.

Va., Norfolk—Alterations—Spec. 5074—Apr. 1, by Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to Building 36, at Naval Hospital, Noted Mar. 5.

La., Thibodaux—Post Office—Mar. 30, by Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office, here; adv. E. N.-R. Mar. 12.

Tenn., Memphis—Earthwork—Mar. 31, by Mississippi River Comn., 1st and 2nd Dists., 1006 McCall Bldg., 6,000,000 cu.yd. earthwork in Upper and Lower St. Francis, Reelfoot and White River Levee Dists.; adv. E. N.-R. Mar. 12.

Ky., Louisville — Cement — Apr. 10, by U. S. Engineer Office, P. O. Box 72, 160,000 bbl. Portland cement for Dams 45, 46, 49, 50 and 52, Ohio River; adv. E. N.-R. Mar. 12.

Cuba, Guantanamo—Bay—Water Tank —Apr. 15, by Bureau Yards & Docks, Navy Dept., Wash., D. C., erecting steel water tank. Noted Mar. 5.

BIDS RECEIVED

Mont., Great Falls — Earthwork, etc. — U. S. Bureau Reclamation, Browning, Feb. 12, earthwork and concrete piers for St. Marys River and Halls Coulee crossing on St. Marys Canal, Blackfoot Indian Irrigation Project, from V. Dostert, Nashua, $19,293.

Mo., Jefferson Barracks (Ind. Br. St. Louis)—Storehouse—U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., storehouse, here, from W. MacDonald Constr. Co., Odd Fellows Bldg., St. Louis, $26,394 (90 days). Noted Feb. 5.

Calif., San Diego—Paving, etc.—Spec. 5071—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete roads, curbs, etc., here, from D. H. Ryan, San Diego, (1) $37,058, from Pioneer Truck Co., 964 3rd St. (2) $16,956, from R. E. Burgund, (3) $16,600. Noted Feb. 5.

CONTRACTS AWARDED

Mass., Boston — Seawall and Breakwater—Treas. Dept. at office Supervising Archt., Wash., D. C., rebuilding seawall, breakwater, etc. to Rendle Corp., 271 Marginal St., Chelsea, $32,328. Noted Feb. 19.

Pa., Pittsburgh — Deck Barges — U. S. Engineer Office, Wash., D. C., three 80 ft. steel deck barges to Amer. Bridge Co., Frick Bldg., $34,235. Noted Jan. 22.

Del., Wilmington—Dredging—U. S. Engineer Office, War Dept., Wash., D. C., dredging in Tuckerton and Absecon Creeks and Toms River, N. J., to Delaware Dredging Co., 139 S. 3rd St., Phila. Pa. $26,932. Noted Jan. 22.

Del., Wilmington — Stone — U. S. Engineer Office, War Dept., Wash., D. C., stone for jetty construction at Delaware River, to Standard Lime & Stone Co. Equitable Bldg., Baltimore, Md., $56,-000.

Md., Baltimore—Dredging—U. S. Engineer Office, Wash., D. C., 1,750,000 cu.yd. removal from cut-off channel and cut-off Craighill angle, sections of Baltimore ship channels, here, to Arundel Corp., Pier 2, Pratt St., $0.1139 per cu.yd. Noted Mar. 5.

Va., Quantico — Pier — Spec. 5098 — Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to pier to Potomac Constr. Co., 229 9th St. N. E. Wash., D. C., $3,456 (60 days).

Ala., Andalusia — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story post office, to W. L. Frazier, 16 River Falls St., $38,305 (10 months).

Tex., Galveston — Dredging — U. S. Engineer Office, War Dept., Wash., D. C., redredging Turning Basin, Port Aransas, to J. Jacobson, 2311½ C St., $21,576.

Unclassified

PROPOSED WORK

Coaling Station, etc.—Maine—Bangor & Aroostook R.R. Co., Graham Bldg., Bangor, plans coaling station, incl. sheds, approaches, loading facilities and 900 ft. pier at Stockton Springs or Searsport. $500,000. M. Bupree, Houlton, ch. engr.

Playground—Dorchester (Boston P. O.), Mass.—City of Boston, Street Laying Out Dept., plans developing land for school playground on Oak Ave., Claremont and Delmont Sts., here. $25,000. J. F. Sullivan, secy.

Playground—Hudson, Mass.—Bd. Selectmen, F. P. Glazier, chn., plans devleoping Riverside Park and nearby land and tracts on Morrison and Cherry Sts. for playground. $25,000. Engineer not selected.

Park Improvement — Medford, Mass. — Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, plans to purchase about 265 acres in southerly section of Middlesex Fells, here, for park and highway improvement. $160,000. J. R. Rablin, c/o owner, engr.

Playground — Roxbury (Boston P. O.), Mass.—City of Boston, Street Laying Out Dept., plans developing land for school playground at Glen Rd. and Day St., here. $30,000. J. F. Sullivan, secy.

Athletic Field — Scituate, Mass. — Dept. Pub. Wks., plans athletic field at Civic Center. $30,000. Engineer not selected.

Sea Wall—South Boston (Boston P. O.), **Mass.**—City of Boston, Park Dept., plans sea wall along Strandway Beach from Columbus Park to Mosquito Fleet Yacht Club, here. $25,000.

Coal Handling Plant—Springfield, Mass. —Home City Fuel Co., 288 Main St., having sketches made by G. P. Carver Inc., 201 Franklin St., Boston, coal handling, engrs. and archts plant. $40,000.

Coal Trestle, etc.—Middletown, Conn.—State Hospital for Insane plans coal trestle and coal handling equipment. $45,000.

Grain Elevator—Buffalo, N. Y.—General Milling Corp., 18 Letchworth St., plans reconstructing elevator recently destroyed by fire. To exceed $150,000.

Park and Golf Courses—Bartow, Fla.—Plans park and golf course. $50,000. R. B. Huffaker, mayor.

Athletic Field — Knoxville, Tenn. — See "Buildings—Commercial."

Power Lines — Nashville, Tenn. — Nashville Railway & Light Co., Watkins Bldg., will expend during 1925, approximately $1,000,000 for power line extensions, replacing street railway tracks, etc.

Telephone Line Extensions, etc.—Nashville, Tenn.—Cumberland Telephone & Telegraph Co., 136 3rd Ave. N., D. F. Turnbull, mgr., purchased properties of Sun Telephone & Telegraph Co. and Stantonville Telephone Co. and will improve same by addition of new lines, equipment, switchboards stations, etc. $175,000.

Gas Mains, Equipment, etc.—Knoxville, Tenn.—Knoxville Gas Co., 715 South Gay St., plans 3 mi. gas mains, meters, driveway, equipment, etc. for improving plant. $60,000. A. W. Young, genl. mgr.

Safety Zones — Detroit, Mich. — Dept. Pub. Wks., City Hall, made plans 744 protected and lighted safety zones on Woodward, Jefferson, Grand River, Michigan, East and West Warren Aves., Forest Ave. W. and Fort St. W. $483,600. G. Jerome, city engr.

Asphalt Plant—Milwaukee, Wis.—R. E. Stoelting, comr. Pub. Wks., soon takes bids asphalt plant for street repair work. $40,000.

Grain Elevator — Council Bluffs, Ia. — Chicago, Rock Island & Pacific R.R. Co., 179 West Jackson Blvd., Chicago, Ill., plans rein.-con. grain elevator, here. $200,000. C. A. Morse, ch. engr.

Subways — Arkansas City, Kan. — Plans election $175,000 bonds for subways under the Atchison, Topeka & Santa Fe R.R. tracks, Madison and Chester Aves. G. R. McIntosh, mayor.

Street Lighting System—Geneva, Neb.—Election Apr. 7, $40,000 bonds for street lighting system.

Steel Pipeline—Texas—Houston Oil Co., Scanlon Bldg., Houston, soon takes bids 250 mi. steel pipe line with pumping equipment, etc., from Live Oak fields to Houston. $7,000,000.

Seawall—Aransas Pass, Tex.—Election Mar. 21, $100,000 bonds constructing seawall. J. A. Zimmerman, mayor.

Park Improvements — Houston, Tex. — Election Apr. 13, $300,000 bonds general park improvements. O. F. Holcombe, mayor.

Transmission Line—Oklahoma—City of Butler voted $10,000 bonds for transmission line from Butler to Hammon, and distribution system in Butler. J. D. Bomford, Elk City, engr. Noted Feb. 19.

Lighting System — Leedy, Okla. — Voted $25,000 bonds for electric lighting system.

Gas System — Mangum, Okla. — City making preliminary plans new gas system, securing gas from Sayre. $70,000. J. T. Tomme Mangum, engr.

Aerial Tramway — Arden, Nev. — Blue Diamond Co., 2200 East 16th St., Los Angeles, Calif., plans 3,000 ft. aerial tramway in connection with gypsum plant.

Power Development — Washington — Washington Irrigation & Development Co. (a holding for General Electric Co., 120 Bway., New York City) plans $100,000,000 Priest Rapids hydro-electric power project on Columbia River, 200 mi. east of Seattle, to develop 400,000 hp. at all stages of Columbia River, which will be spanned by $28,000,000 dam, 2½ mi. long, 90 ft. high, to create power reservoir.

Power Development — Yale, Wash. — L. T. Merwin, genl. mgr. Northwestern Electric Co., Pittock Blk., Portland, Ore., takes bids about May 1, developing 40,000 hp. on Lewis River near here. Will spend $1,500,000 during 1925. Total $5,-000,000. Private plans.

Tunnels—California—See "Railways."

Subway — Martinez, Calif. — Supervs. Contra Costa Co., received no bids Mar. 3, constructing Christie Crossing subway, steel and concrete, at Santa Fe R.R. tracks in Franklin Corners. Noted Feb. 19.

Park Improvements — Santa Barbara, Calif. — Voted $125,000 bonds "Carillo" Park improvements. G. Morrison, city engr.

Harbor Improvements, etc.—Canada—Dominion Government, Ottawa, Ont., plans harbor improvements at Port Arthur and Fort William, Ont. $129,000, Toronto, Ont. $100,000, Champlain Dock, Quebec, Que. $68,000, and St. John, N. B. $150,000; breakwater at Gullivers Cove, N. S. $15,-000; reconstructing breakwater at Port Greville, N. S. $20,000; harbor improvements at Parrsboro, N. S. $39,000. Sheet Harbor, N. S. $20,000; wharf at Windsor $24,000; harbor at New London, P. E. I. $20,000; breakwater repairs at Souris, P. E. I. $36,500; harbor work at Escuminac, N. B. $50,000, wharf repairs at Mills Point, N. B. $25,000, Shediac, N. B. $17,000; wharves at Bagotville, Que. $22,000, Baie St. Paul $25,000, Desjardins $16,000, Father Point $23,000, Grandines $37,000, Lachine $18,000, Point aux Esquimaux $19,300, Pointe au Pic $15,000, St. Antoine de Tilly $20,000, St. Petronville $15,000, and Sorel $75,000; shed on wharf at Trois Rivieres $45,000, all foregoing in Quebec; piers, etc.,

Unclassified (Continued)

Burlington Channel, Ont. $40,000, Goderich $150,000, Kincardine $25,000, Midland $15,000, Oshawa $100,000, Pelee Island $28,000, Port Burwell $97,100, Port Maitland $195,000, Port Stanley $90,000, and Thessalon $16,000, all foregoing in Ontario; improvements on Fraser River, B. C. $60,000; telegraph and telephone lines in Vancouver Island Dist., and renewal of submarine cable between Denman and Hornby Islands, $2,000, shifting lines, renewals $10,500, and installing metallic circuit in Yank-Creston line $8,000.

Monument — Three Rivers, Que. — Committee, L. P. Normand, pres., plans Lafleche Monument, 26 ft. high. $30,000. E. Soney, 253 Bleury St., Montreal, archt. and sculptor.

BIDS DESIRED

Station Finish—New York—Mar. 20, by Bd. Transportation, 49 Lafayette St., New York City, station finish work for Vernon-Jackson Aves. station on Queensboro Subway Rapid Transit R.R. in Queens Boro., and for Montrose Ave. Station of 14th St.-Eastern Rapid Transit R.R., Brooklyn Boro. J. H. Delaney, chn.

Heating and Ventilating, etc. — Ithaca, N. Y.—Mar. 31, by Cornell University, heating, ventilating and sanitary works at New York State College of Agriculture. S. W. Jones, Albany, state archt.; adv. E. N.-R. Mar. 12.

Fire Protection—Newark, N. Y.—Apr. 16, by Superintendent Purchase, Capitol, Albany, sanitary work, water supply, etc., for fire protection at Newark State School for Mental Defectives, here. S. W. Jones, state archt.; adv. E. N.-R. Mar. 12.

Fire Protection—Utica, N. Y.—Mar. 25, by State Hospital Comn., Capitol, Albany, construction, fire protection, etc., for Utica State Hospital, here. S. W. Jones, state archt.; adv. E. N.-R. Mar. 12.

Storage Tank — Topeka, Kan. — Homer & Wyatt, engrs., 300 Bd. Trade Bldg., Kansas City, Mo., taking bids eight rein.-con. storage tanks, 90 ft. high, 18 ft. diam., 180,000 bu. capacity, here for Topeka Flour Mills Co., 126 North Jefferson St.

Guard Rail—South Dakota—Mar. 24, by State Hy. Comn., Pierre, 17,160 lin.ft. wood or wire limb guard rail in Hand, Brookings-Moody, Butte-Lawrence, Davison and Pennington Counties.

Fish Hatchery—Heavener, Okla.—State Bd. of Affairs, Capitol Bldg., Oklahoma City, taking bids 40 fish ponds, gravity supply lines, small tenement houses, etc., 65,000 cu.yd. excav., 75,000 cu.yd. earth fill, 118 cu.yd. mass concrete, 900 ft. 12 in. tile, etc. $40,000 funds appropriated. J. M. Page, Capitol Bldg., Oklahoma City, engr.

Pier Extension—San Francisco, Calif.—State Bd. Harbor Commissioners, Ferry Bldg., taking bids 200 ft. creosoted pile, shed and 646 ft. track extensions on north and south sides of Pier 40. Owner furnishes creosoted piles, steel rails, fittings and cement. F. G. White, Ferry Bldg., ch. engr.

BIDS RECEIVED

Plumbing, etc.—Phila., Pa.—See "Buildings—Commercial."

Subway—Nevada, Mo.—City, Missouri Pacific Ry., St. Louis and Liberty Sts., Kansas City, and Missouri, Kansas & Texas Ry. Co., 713 Walnut St., Kansas City, 900 ft. rein.-con. and steel subway, from T. H. Johnson, Sedalia, $94,915. Noted June 26.

Ornamental Street Lighting System — Glendale, Calif.—See "Streets and Roads."

CONTRACTS AWARDED

Piers—New Haven, Conn.—Beach Front Amusement Co., Beach St., Savin Rock, N. H., 2 piers, one 1,420 ft. long, 44 ft. wide, and other 420 ft. long, 100 ft. wide, Beach St., to Travers Eng. Co., Beaver Falls, Pa. Engrs. est. $125,000.

Athletic Field—Long Island City, N. Y.—Park Bd., 5th Ave. and 64th St., New York City, athletic field in Forest Park, here, to L. DeMinna, 2366 Lorrilard Pl., New York City, $92,683. Noted Feb. 26.

Sanitary Work, etc.—New York, N. Y.—State Hospital Comn., Capitol, Albany, sanitary work and piping in Manhattan State Hospital, Wards Island, to S. L. Snyder, 260 West 41st St., $52,800.

Boring—Phila., Pa. — Core borings in Schuylkill River for Penrose Ave. and University Bridges, to Ridpath & Potter Co., 22nd and Cambria Sts., $12,420. Noted Jan. 15.

Shelter House, etc.—Evansville, Ind.—Bd. Park Comrs., shelter house, locker building, and club house brick and rein.-con., for municipal parks, general contract, to Scarborough-Davies Constr. Co., Natl. Bank Bldg., approximately $45,700.

Subway—Nevada, Mo. — City, Missouri Pacific Ry., St. Louis and Liberty Sts., Kansas City, and Missouri, Kansas & Texas Ry., 713 Walnut St., Kansas City, 900 ft. rein.-con. and steel subway, to T. H. Johnson, Sedalia, $94,915. Noted June 26.

Heating, etc.—North Kansas City, Mo.—See "Buildings-Commercial."

Swimming Pool — St. Louis, Mo. — See "Buildings—Commercial."

Grain Elevator, etc.—Houston, Tex.—Owner, c/o B. E. Calwell, secy., grain elevator and storage bins, rein.-con., 500 bu. capacity, to Jones Hettelsater Constr. Co., 706 Mutual Bldg., Kansas City, Mo., $150,000.

Pier, etc.—Houston, Tex.—See "Railways" under Missouri.

Heating and Ventilating—Portland, Ore.—See "Buildings—Commercial."

Underway—Aptos, Calif.—Supervs. Santa Cruz Co. (Santa Cruz), underway under Southern Pacific R.R. tracks, here, 13,000 cu.yd. roadway, and 2,600 cu.yd. structural excav., 478 ft. 12, 18 and 24 in. corrugated iron pipe culverts, 2,600 lb. reinforcing, etc., to Lord & Bishop, Box 334, Napa, $23,862. Noted Feb. 12.

Dock—Walkerville, Ont.—H. Walker, 50 x 600 ft. rein.-con. dock slab on wood piles with concrete caps, to Detroit River Constr. Co., Walkerville.

Material and Equipment

PROPOSED WORK

Street Roller—Hudson, Mass.—Bd. Selectmen, F. P. Glazier, chn., plans to purchase street roller. $5,000.

Street Sweeper — Melrose, Mass. — Bd. Alderman plans to purchase power driven street sweeper. $7,500 bonds voted.

Trucks—West New Brighton, N. Y.—J. A. Lynch, pres. Richmond Boro, Boro Hall, St. George, rejected bids Feb. 18, auto trucks. Will readvertise. Noted Feb. 12.

Paving Plant—Ventura, Calif.—Ventura Co. plans to purchase paving plant for road repairs.

BIDS DESIRED

Cable, etc.—Boston, Mass.—Mar. 17, by Supply Dept., lead covered cable, also engine, machine and cylinder oils, and grease to various City Depts. F. P. Rock, supt.

Cement—Boston, Mass.—Mar. 19, by Supply Dept., Portland cement as per specifications, to various City Depts. F. P. Rock, supt.

Gravel and Sand, etc.—Boston, Mass.—Mar. 16, by Supply Dept., bank gravel, sand and crushed stone, to various City Depts., until Dec. 31. F. P. Rock, supt.

Patching, etc.—Boston, Mass.—Mar. 18, by Supply Dept., 500 tons Taric patching compound to various City Depts.; 500 tons road asphalt for construction, deliveries on streets as designated by Commissioner; and 500 tons emulsified asphalt for cold patching. F. P. Rock, supt.

Roofing Materials, etc.—New York, N. Y.—Mar. 16, by J. E. Bowe, comr. Purchase, Municipal Bldg., roofing, highway and building materials.

Asphaltic Cement, etc.—St. George, N. Y.—Mar. 18, by J. A. Lynch, pres. Richmond Boro, Boro Hall, 365 tons asphaltic cement, 90,000 gal. bituminous surfacing material, 235,000 gal. asphaltic macadam binder, 950 cu.yd. concrete and paving sand, broken stone and 2,100 cu.yd. trap rock screenings, pea gravel, etc.

Snow Plows — Delaware — Mar. 30, by State Hy. Dept., Dover, 3 snow plows; adv. E. N.-R. Mar. 12.

Segment Block Pipe, etc.—Richmond, Va.—See "Sewers."

Tandem Roller—Cincinnati, O.—Mar. 19 at office City Purch. Agt., one tandem roller to Street & Sewer Repair Dept. F. Krug, City Hall, engr.

Gas Crane, etc.—Cleveland, O.—A. K. Hoare, comr. Purchases & Supplies, in market for 1 gas crane, and 1 trailer for division of streets and 2 rotary steam tube dryers for garbage disposal plant.

Loading Machinery — Zanesville, O.—Worstall Bros., in market for heavy loading machinery to equip new yard. F. W. Worstall, purch. agt.

Paving Blocks and Cement—Milwaukee, Wis.—Mar. 17, by D. W. Hoan, chn. Central Bd. Purchases, 14 cars (more or less) 3.5 in. rectangular creosoted wood blocks, 16 lb. treatment, to Dept. Pub. Wks.; also 20,000 bbls. (more or less) Portland cement delivered on job to various departments as ordered, and 10,000 bbls. (more or less) Portland cement to Metropolitan Sewerage Comn., f.o.b. Jones Island, Illinois Steel Co. siding.

Street Flusher and Truck—Wauwatosa, Wis.—Apr. 3, by A. Brigham, secy. Bd. Pub. Wks., 1 street sweeper or flusher, and 1 motor truck for hauling garbage and ashes. Noted Feb. 5.

Street Sprinkler—West Milwaukee (Milwaukee P. O.), **Wis.**—Mar. 16, by S. Brew, village clk., motor driven or horse drawn street sprinkler.

Street Roller—Sioux City, Ia.—Western Asphalt Paving Corp., in market for 3 wheel 10 ton street roller.

Tractor—Minneapolis, Minn.—Mar. 17, by G. S. Gram, city purch. agt., one 10 ton caterpillar type tractor, and one combined scarifier-grader of not less than 9,000 lbs. N. W. Elsberg, city engr.

Graders—Montevideo, Minn.—Mar. 24, by A. E. Swenson, aud. Chippewa Co., eight 2 horse patrol graders, 6 or 8 ft. blades.

Road Oil—St. Paul, Minn.—Mar. 17 (extended date), by H. W. Austin, city purch. agt., 500,000 gal. road oil for Dept. Pub. Wks. G. M. Shepard, city engr. Noted Mar. 5.

Boom Back Filler—Kansas City, Mo.—Hackenberry Constr. Co., 709 Railway Exch. Bldg., taking bids boom back filler.

Shell—Houston, Tex.—C. H. Byan, judge Harris Co., taking bids 25,000 yd. shell, f.o.b. here. $25,000. Howe & Wise, 1st Natl. Bank, engrs.

Pump and Engine—Chino, Calif.—Soper Bros. in market for 20- to 24-in. centrifugal pump, one 100-150-200 hp. and one 200 hp. or two 100 to 125 hp. steam engines, all first class condition, prices quoted f.o.b. cars or boat San Francisco.

Road Oil — Riverside, Calif. — Riverside Co., c/o W. L. Carlson, purch. agt., in market for 75,000 gal. road oil having 55% asphalt content.

BIDS RECEIVED

Tar—Minneapolis, Minn.—F. S. Gram, city purch. agt., 500,000 gal. refined tar for Park Bd., from Barrett Co., 1 19th Ave. S., $0.1095 to $0.1495 per gal. Noted Feb. 19.

CONTRACTS AWARDED

Coal Tar Road Binding Material, etc.—Cincinnati, O.—Director Pub. Serv., City Hall, 1,250 tons coal tar road binding material to Div. Street Repairs, to Byrnes & Conway Co., Bodman Bldg., $42,438, engrs. est. $43,750; 400 tons coal tar pitch filler, to Barrett Co., 517 Carr St., $11,960, engrs. est. $12,000. Noted Feb. 12.

Gravel and Sand—Racine, Wis.—Racine Co., 7,000 cu.yd. gravel and 3,500 cu.yd. sand for road work, to J. Donahue & Sons, 318 Bradford Ave., Milwaukee, $5,250.

Road Oil, etc.—Wausau, Wis.—Bd. Pub. Wks., 50,000 gal. tar product road oil, to Amer. Tar Products Co., 208 South La Salle St., Chicago, Ill., at $0.1036 per gal.; 1 car calcium chloride, to Dow Chemical Co., Midland, Mich., $30 per ton; and 1 car load calcium chloride to O'Neil Oil & Paint Co., 297 East Water St., Milwaukee, at $33.30 per ton. Noted Feb. 26.

Road Tar and Asphalt—Whitehall, Wis.—Trempealeau Co., 40,000 gal. road tar, to F. J. Lewis Co., 2513 South Robey St., Chicago, Ill., at $0.103 per gal.; 10,000 gal. road asphalt to Standard Oil Co., 68 Wisconsin St., Milwaukee, $0.0675; 20,000 gal. road asphalt, to Camden Petroleum Co., 232 South Clark St., Chicago, Ill., $0.105.

Cast Iron Pipe — Duluth, Minn. — City, 2,000 tons c.i. pipe for Water & Light Dept., to J. B. Clow & Sons, 534 South Franklin St., Chicago, Ill.

Cement, etc.—Minneapolis, Minn.—F. S. Gram, city purch. agt., to New Orleans Refining Co., Maison Blanche Annex, New Orleans, La., 2,000 tons asphalt cement $26.10 per ton; to Barrett Co., 1 19th Ave. S., 600 tons pitch, $23.02 per ton, and 50,000 gal. refined tar, range of prices. Noted Feb. 19.

Oil Distributor—Minneapolis, Minn.—F. S. Gram, city purch. agt., one oil distributor mounted on truck, to Etnyre Co., Oregon, Ill., $3,575. Noted Feb. 19.

Road Oil, etc.—Minneapolis, Minn.—F. S. Gram, city purch. agt., 2,000,000 gal. road oil, to W. H. Barber Co., 1501 Franklin Ave. S. E., $0.064 per gal. f.o.b. Minneapolis; 11,000 tons trap rock, to Trap Rock Co., Bway. and K Sts., $1.25 per ton for ¾ in., $2.55 per ton for ¼ to ⅜ in. and $2.[illegible] per ton for ⅜ to ¾ in.; 5,000,000 vitr. paving brick, to Purlington Paving Brick Co., Galesburg, Ill., $39.95 per M; 20,000 sq.yd. 3½ in. creosoted wood blocks, to Indiana Wood Preserving Co., 111 West Washington St., Chicago, Ill., $2.25 per sq. yd., f.o.b. Minneapolis. Noted Mar. 5.

OFFICIAL PROPOSALS

Bids: March 26.

Roads and Bridges

STATE HIGHWAY COMMISSION
Richmond, Va., March 5, 1925.

Sealed bids will be received at the office of the State Highway Commission, State Office Building, Capitol Square, Richmond, Va., until 10:30 a. m. Thursday, March 26th, 1925, for the construction of:

1.—RT. 33—PROJ. F118A: 0.93 Mi. So. Roanoke—6.16 Mi. So. Roanoke, in Roanoke County. Station 299+35 to 330+35 only. 0.586 of a mile of 18' x 8" Bit. Mac. Surfacing.

2.—RT. 33—PROJ. F118B: 6.16 Mi. So. Roanoke—10.13 Mi. So. Roanoke. Station 330+35 to 533+00, except bet. Sta. 488+95 and Sta. 513. 3.244 miles of 18' x 18" Bit. Mac. surfacing, in Roanoke and Franklin Counties.

3.—RT. 33—PROJ. F118C: 10.13 Mi. So. Roanoke—14.51 Mi. So. of Roanoke, Station 533+00 to Sta. 764, in Franklin County. 4.376 Mi. of 18' x 8" Bit. Mac. Surfacing.

4.—RT. 35—PROJ. F145D: 1.42 Mi. No. Homeville — 3.78 Mi. No. Homeville, in Sussex County. Station 462+00 to Sta. 587+00. 2.366 Miles of 18' x 8"-6"-8" concrete. Approx. 6 Ac. Cl. & Grub., 10,-792 Cu.Yds. Excav., 5,472 Cu.Yds. Borrow, 280 Lin.Ft. Pipe, 45 Cu.Yds. "A" Conc., 12 Cu.Yds. "B" Conc., 2,989 lbs. steel, 24,982 Sq.Yds. Conc. Surf., 464 Lin.Ft. Gd. Rail, 26 R/W Monuments.

INCLUSIVE OF BRIDGE at Mevlett's Mill, 54'-3½" long. Roadway: 24'. Approx. 73 Cu.Yds. "A" Conc., 69 Cu.Yds. "B" Conc., 13,300 lbs. steel, 560 Lin.Ft. Piles.

5.—RT. 35—PROJ. F145F: 0.27 Mi. No. Homeville—1.42 Mi. No. Homeville, in Sussex County. Station 401+40 to Station 587+00. Approx. 1.35 Ac. Cl. & Grub., 3,097 Cu.Yds. Uncl. Excav., 306 Cu.Yds. Borrow, 140 Lin.Ft. Pipe, 6 Cu.Yds. "B" Conc., 12,120 Sq.Yds. Conc. Pavement, 14 R/W Monuments.

6.—RT. 33—PROJ. F169A: 3.17 Mi. So. Buchanan—7.25 Mi. So. Buchanan in Botetourt Co. 4.089 Mi. of 18' x 8" Bit. Mac. Approx. 21 Ac. Cl. & Grub., 26,760 Cu.Yds. Excav., 6,083 Cu.Yds. Borrow, 710 Lin.Ft. Pipe, 114 Cu.Yds. "A" Conc., 618 Cu.Yds. "B" Conc., 43,811 Sq.Yds. surfacing 3,008 Lin.Ft. Gd. Rail, 220 Cu.Yds. Dry Rubble Masonry, 86 R/W Monuments INCLUSIVE OF BRIDGE, 6.8 Mi. East of Troutville, Sta. 432. Length: 42'-11". Roadway: 24'. 7,570 lbs. steel, 68 Cu.Yds. "A" Conc., 59 Cu.Yds. "B" Conc., 181 Cu.Yds. Cement rubble masonry.

7.—RT. 14—PROJ. F259A: Gretna—North, in Pittsylvania County 3 Mi. 22' x 0"-10"-0" Soil Rd. Approx. 6.5 Ac. Cl. & Grub., 17,000 Cu.Yds. Excav., 1300 Cu.Yds. Borrow, 53 Cu.Yds. "A" Conc., 61 Cu.Yds. "B" Conc., 3,649 lbs., steel, 485 Lin.Ft. Pipe.

8.—RT. 20—PROJ. S323C: Sugar Hill—Intersection soil Rd. near Phoenix, in Charlotte County. 7.111 Mi. of 22' x 0"-10"-0" Soil Rd. Approx. 20 Ac. Cl. & Grub., 105,-657 Cu.Yds. Excav., 235 Cu.Yds. Borrow, 1960 Lin.Ft. Pipe, 475 Cu.Yds. "A" Conc., 78 Cu.Yds. "B" Conc., 44,359 lbs. reinf. Steel, 9384 Lin.Ft. Gd. Rail, 126 R/W Monuments.

INCLUSIVE OF BRIDGE (concrete) over Turnip Creek, 65' long, Roadway: 24'. 84 Cu.Yds. "A" Conc., 153 Cu.Yds. "B" Conc., 16,450 lbs. steel.

9.—RT. 31—PROJ. F347: 3.80 Mi. No. Stafford C. H.—Stafford C. H. in Stafford County. 3.801 Mi. of 18' x 8"-6"-8" Conc. Approx. 10.6 Ac. Cl. & Grub., 38,025 Cu.Yds. Excav., 175 Cu.Yds. Borrow, 1394 Lin.Ft. Pipe 61 Cu.Yds. "A" Conc. 50 Cu.Yds. "B" Conc., 4300 lbs. reinf. steel,—40,596 Sq.Yds. Conc. Paymt, 1200 Lin.Ft. Gd. Rail, 68 R/W Monuments.

INCLUSIVE OF BRIDGE (Concrete) over Austins Run, 43' long, 24' Roadway. 65 Cu.Yds. "A" Conc., 187 Cu.Yds. "B" Conc., 12,040 lbs., steel.

10.—RT. 24—PROJ. S385; Bridge and approaches over Meherrin River at Emporia in Greenesville Co. Length: 288'-9". Width of roadway; 24' and two 5' sidewalks. One 110' reinf. conc. arch span and 5-30' reinf. conc. beam spans, Approx. 1083 Cu.Yds. "A" Conc., 188,500 lbs. reinf. steel, 8,600 Cu.Yds. Excav. APPROACHES: 0.17 Mile of 3" sheet asphalt top on 5" concrete base. Roadway: 18'-24'. 3510 Cu.Yds. Excav., 5589 Cu.Yds. Borrow, 108 Lin.Ft. Pipe, 928 Lin.Ft. Gd. Rail, 3.2 Cu.Yds. "B" Conc., 1253 Sq.Yds. Surfacing, 1217 Lin.Ft. curb and gutter, 676 Sq.Yds. Concrete sidewalks.

11.—RT. 17—PROJ. S391: 0.5 Mi. W. Goshen—6.79 Mi. W. Goshen in Rockbridge County & Bath County. 6.318 Mi. 24'-26' Sr. & Drainage only. Approx. 17 Ac. Clear. & Grub., 67,455 Cu.Yds. Excav., 4,240 Cu.Yds. borrow, 2198 Lin.Ft. Pipe, 55 Cu.Yds. "A" Conc., 79 Cu.Yds. "B" Conc., 3180 lbs. steel, 15,371 Lin.Ft. Gd. Rail, 160 R/W Monuments, 1524 Cu.Yds. Dry Rubble Masonry.

INCLUSIVE OF BRIDGE OVER MILL CREEK, 82'-6" long. 24' Roadway. 98 Cu.Yds. "A" Conc., 104 Cu.Yds. "B" Conc., 19,890 Lbs. steel.

Proposal guaranty to be cert. check, cashier's check, or cert. of deposit, to the amount of $500 for bids less than $100,-000 and $1,000 for bids more than $100,-000. Proposal bonds 20% in excess of the above amount may be used.

Plans and specifications are on file at the Richmond office, State Highway Commission and at the offices of the following Dist. Engrs. Projs. 118 A, B, & C, and 169A, Salem, Va., 145D, F and 385, Suffolk, Va. 259A Lynchburg, Va., 323C Richmond, Va., 347 Fredericksburg, Va., and 391 Staunton, Va.

Additional plans for bidders on the above projects may be obtained upon application to the State Highway Dept., upon receipt of $5.00 payable to H. G. Shirley, $2.50 of which will be refunded if plans are returned in good condition within two weeks after bids are opened.

Engineers will be at the following places to show prospective bidders over the work:

Projs. 118A, B, & C: 2 p. m. Thurs. March 12th, Roanoke Hotel, Roanoke, Va. Projs. 145D & F: 12:30 p. m. Wed. March 18th, Homeville, Va. 169A — 10 a. m. Thurs. March 12th, at Buchanan, Va. Proj. 11 a. m. Tues. March 17th, at Gretna, Va. Proj. 323C 10:30 a. m. Wed. March 18, Brookneal Hotel, Brookneal, Va. Proj. 347—10:30 a. m. Tues. March 17th, Stafford C. H., Va. Proj. 385—11 a. m. Thurs. March 19th, Hotel Emporia, Emporia, Va. Proj. 391 2:15 p. m. Friday, March 13th, C. & O. R.R. Station, Goshen, Va.

The State Highway Commission reserves the right to reject any or all bids.

C. S. MULLEN, Chief Engineer, H. G. SHIRLEY, Chairman.

Bids: April 7.

Holland Tunnel Work

CONTRACT NO. 7
New York, N. Y.

Sealed bids will be received by the New York State Bridge and Tunnel Commission and New Jersey Interstate Bridge and Tunnel Commission at the office of the Commissions, Room 3004, Woolworth Building, New York City, until 2:00 o'clock p.m. (Eastern Standard Time), Tuesday, April 7th, 1925.

For furnishing and setting white glazed wall tile and enamels, painting the concrete ceiling, furnishings and setting slides and screws, frames and doors and furnishing and erecting hand rail and other items of interior finish of the Holland Tunnel, known as Contract No. 7.

A statement of the quantities of the various items of work and further information are given in the invitation to bid, forming part of the contract. At the above place and time the bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Commissions as soon thereafter as practicable. The Commissions reserve the right to reject any and all bids.

Bonds is the sum of One Hundred Fifty Thousand ($150,000) Dollars each to the State of New York and to the State of New Jersey will be required for the faithful performance of the contract.

No bids will be received or considered unless accompanied by two certified checks upon a National or State Bank or Trust Company, satisfactory to the Commissions and located in New York City or the cities of Newark or Jersey City in the sum of Twenty-five Thousand ($25,000) Dollars each, one payable to the order of the "Comptroller of the State of New York," and the other payable to the order of "The New Jersey Interstate Bridge and Tunnel Commission."

The time allowed for the completion of the work is 16 months after the date of the delivery of the contract.

Books containing forms of invitation to bid, proposals, contract, specifications and bond and contract drawings, etc., can be obtained at the office of the Commissions for the sum of $5.00 per set.

New Jersey Interstate Bridge and Tunnel Commission.
THEODORE BOETTGER, Chairman.

New York State Bridge and Tunnel Commission.
GEORGE R. DYER, Chairman.

Bids: March 17.

Construction of Cross Keys-Williamstown Road, Sect. No. 1

Woodbury, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Gloucester for the construction of Cross Keys-Williamstown Road, Sect. No. 1, in the Township of Monroe, in the County of Gloucester, with a concrete pavement; estimated amount of concrete pavement required is Forty thousand one hundred fifty-eight (40,158) square yards, and opened and read in public at Court House, Woodbury, N. J., on Tuesday, March 17th, 1925, at 11.00 o'clock a.m.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by William C. Cattell, County Engineer, have been filed in the office of the said engineer at Merritt Building, Woodbury, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to The Board of Chosen Freeholders of the County of Gloucester and must be accompanied by a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and on the hour above named. The standard proposal forms is attached to the specifications, copies of which will be furnished on application to engineer.

By order of The Board of Chosen Freeholders of the County of Gloucester.
CHESTER N. STEELMAN, Clerk.

WILLIAM C. CATTELL, County Engineer.

Bids: March 24.

Foundation Construction

OFFICE OF THE DIRECTOR,
DEPARTMENT OF PUBLIC WORKS
Philadelphia, Pa.

Sealed proposals will be received at Room 216, City Hall, until 12 o'clock noon on Tuesday, March 24, 1925 and opened at that time in Room 216, City Hall, for Foundation Construction comprising Excavation, Concrete Piling, Pile Capping and Bracing for A Municipal Stadium upon City-owned property east of Broad street and south of Pattison avenue, known as East League Island Park.

Plans and proposal forms may be obtained by bidders from the architects, Simon and Simon, at 249 S. Juniper Street, upon the payment of Fifty (50) Dollars, which sum will be refunded upon the return of the said specifications and plans in an undamaged condition and within one week after the opening of bids.

All proposals must be accompanied by a certified check in the amount of five (5) per cent of the bid, in accordance with the ordinance of March 7, 1924 and amendment of July 2, 1924.
GEORGE H. BILES, Director.

Bids: April 27.

Dredging

Leesburg, Fla.

Sealed proposals on blank forms furnished by the City and addressed to the "Mayor and Commissioners, Leesburg, Florida," will be received until 12 o'clock, noon, April 27, 1925, at Leesburg, Florida, for furnishing all equipment and labor and doing the following work:

Approximately 46,500 cu.yds. sand and muck fill.

Each bid shall be accompanied by a certified check for not less than two hundred and fifty dollars ($250.00), made payable to the City Manager.

Plans and specifications can be seen at the office of the City Manager, and bidding blanks may be obtained from him.

The right is reserved to reject any or all bids.

DR. W. A. MACKENZIE, Mayor Commissioner.
D. E. BIVINS, City Manager.
W. E. HARKNESS, City Clerk.

S. H. JAUDON ENGINEERING CO., Engineers.
Leesburg, Florida.

CONSTRUCTION NEWS

Engineering News-Record, March 19, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Irrigation work, Grass Valley, Calif., Nevada Irrigation Dist. voted $7,250,000 bonds for irrigation work.

Store and Theater, A. G. Candler, Jr., having plans prepared, $6,000,000.

Sewers, Los Angeles, Calif., Metropolitan Sewerage Dist. voted $3,600,000 bonds for sewers in dist. 1; $3,520,000 for dist 2; $1,200,000 for dist. 5.

Hotel and Garage, Indianapolis, Ind., E. G. Spink having plans prepared, 8 story and basement, $3,500,000.

Dam, Leeper, Mo., Black River Power & Development Co. plan large power dam to generate power and to protect farm land, $3,500,000.

Church, Dallas, Tex., City Temple Presbyterian Church having plans prepared, $2,000,000.

Hotel, Portland, Ore., L. A. Phillips plans hotel, $2,000,000.

Bridge, Oregon and Washington, State Highway Engineer plans interstate bridge, $2,000,000.

Water works improvement, Amarillo, Tex., $1,750,000 bonds voted for improvement of water works.

Roads and bridges, Gulfport, Miss., Harrison Co. voted $1,500,000 bonds for roads and bridges.

Orphanage, Cleveland Heights, O., Jewish Orphans' Home having plans prepared, $1,500,000.

Bridge, Wilmington, N. C., New Hanover Co. has been authorized to borrow $1,500,000 for bridge.

Roads and bridge, Wilson, N. C., Wilson Co. voted $1,250,000 bonds for roads and bridge.

Office, St. Louis, Mo., Local Syndicate making preliminary plans for hotel, $1,000,000.

Roads, Statesville, N. C., voted $1,000,000 bonds for roads.

Bids Wanted On Big Jobs

Auditorium, Minneapolis, Minn., City Council Auditorium Com., $2,500,000.

High School, Cleveland Heights, O., Bd. of Educ., $1,500,000.

Garage, Boston, Mass., J. M. Howe, $1,500,000.

High School, Harrisburg, Pa., Bd. of Directors, $1,000,000.

Large Contracts Let During Week

Business School, Brighton, Mass., Harvard University to Hegeman Harris Co., $5,000,000.

High School, Jamaica, N. Y., Bd. of Educ., gen. contract to Lustbader Constr. Co., $2,083,980; plumbing to T. E. OBrien, Inc., $123,480.

Club, Chicago, Ill., Standard Club to Mellon-Stuart Co., $1,500,000.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
Mar. 23	St. Augustine, Fla.	Feb. 19
Mar. 23	New Holstein, Wis.	Mar. 19
Mar. 23	Menomonee Falls, Wis.	Mar. 19
Mar. 24	Cincinnati, O.	Mar. 19
Mar. 25	Minneapolis, Minn.	Mar. 19
Mar. 25	New York, N. Y.	Mar. 19
Mar. 25	St. George, N. Y.	Mar. 19
Mar. 27	Cleveland, O.	Mar. 19
Mar. 27	Brooklyn, N. Y.	Mar. 19
Mar. 30	Bridgewater, Mass.	Mar. 12
Mar. 31	Hagerstown, Md. Adv. Mar. 12 and 19.	Mar. 12
Mar. 31	Mayville, Wis.	Mar. 19
Apr. 2	Oneida, N. Y. Adv. Mar. 12 and 19.	Mar. 12
Apr. 6	Anderson, Ind.	Mar. 12
Apr. 8	Winona, Minn. Adv. Mar. 19.	Mar. 19
Apr. 13	Bellingham, Wash.	Mar. 12
Apr. 14	Spartanburg, S. C. Adv. Mar. 5 to 19.	Mar. 5
Apr. 14	Wisconsin Rapids, Wis. Adv. Mar. 19.	Mar. 19
Apr. 15	Apex, N. C. Adv. Mar. 19.	Mar. 19
	SEWERS	
Mar. 23	Garfield Heights, (Cleveland P. O.), O.	Mar. 19
Mar. 24	Milwaukee, Wis.	Mar. 19
Mar. 25	Baltimore, Md.	Mar. 19
Mar. 25	Toronto, Ont.	Mar. 19
Mar. 26	New York, N. Y.	Mar. 19
Mar. 30	Wilson, N. C.	Mar. 19
Mar. 30	San Diego, Calif.	Mar. 19
Mar. 31	Juniata (branch of Altoona), Pa.	Mar. 19
Mar. 31	Burbank, Calif.	Mar. 19
Apr. 2	Rome, N. Y.	Mar. 5
	WASTE DISPOSAL	
Apr. 2	Buffalo, N. Y.	Mar. 19
	BRIDGES	
Mar. 23	St. Augustine, Fla.	Feb. 19
Mar. 23	Northampton, Mass.	Mar. 12
Mar. 24	Hughesville, Pa.	Mar. 12
Mar. 25	West Virginia	Mar. 5
Mar. 27	Tennessee	Mar. 19
Mar. 27	Wyoming	Mar. 19
Mar. 28	Missouri	Mar. 19
Mar. 30	Karnes City, Tex.	Mar. 12
Mar. 30	New Jersey Adv. Mar. 12 and 19.	Mar. 12
Mar. 31	Louisiana	Feb. 26
Mar. 31	Georgetown, S. C.	Mar. 12
Mar. 31	Louisiana	Mar. 19
Apr. 1	Huntington, W. Va. Adv. Mar. 5 to 19.	Mar. 5
Apr. 2	Pennsylvania	Mar. 19
Apr. 2	Perth Amboy, N. J. Adv. Mar. 12 and 19.	Mar. 12
Apr. 2	Hamburg, N. Y. Adv. Mar. 12 and 19.	Mar. 12
	DAM	
Apr. 7	Burton, B. C.	Mar. 19
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
Apr. 1	Clewiston, Fla.	Mar. 5
Apr. 6	Buffalo, N. Y. Adv. Mar. 19.	Mar. 19
Apr. 27	Leesburg, Fla. Adv. Mar. 12 and 19.	Mar. 12
	STREETS AND ROADS	
Mar. 21	Toronto, Ont.	Mar. 19
Mar. 23	Clarksburg, W. Va.	Mar. 12
Mar. 23	Ontario	Mar. 12
Mar. 23	Indianola, Ia.	Mar. 12
Mar. 23	Sioux Falls, S. D.	Mar. 12
Mar. 23	Galesburg, Ill.	Mar. 19
Mar. 23	East Providence, R. I.	Mar. 19
Mar. 23	Long Island City, N. Y.	Mar. 19
Mar. 23	Oakmont, Pa.	Mar. 19
Mar. 23	Ottumwa, Ia.	Mar. 19
Mar. 24	Canton, O.	Mar. 19
Mar. 24	South Dakota	Mar. 19
Mar. 24	New Brunswick, N. J.	Mar. 19
Mar. 24	North Dakota	Feb. 26
Mar. 24	New Orleans, La.	Mar. 5
Mar. 24	West Virginia	Mar. 5
Mar. 24	Appleton, Wis.	Mar. 5
Mar. 24	North Carolina	Mar. 5
Mar. 24	St. Louis, Mo.	Mar. 5
Mar. 24	Henrietta, Tex.	Mar. 5
Mar. 24	El Paso, Tex.	Mar. 12
Mar. 24	South Dakota	Mar. 12
Mar. 24	Louisville, Miss.	Mar. 12
Mar. 24	Maryland Adv. Mar. 12 and 19.	Mar. 12
Mar. 24	Walterboro, S. C.	Mar. 12
Mar. 24	Elkhorn, Wis.	Mar. 19
Mar. 24	Roxbury (Boston P. O.), Mass.	Mar. 19
Mar. 24	Bastrop, La.	Mar. 19
Mar. 24	Michigan	Mar. 19
Mar. 25	Rhode Island Adv. Mar. 12 and 19.	Mar. 12
Mar. 25	Shadyside, O.	Mar. 19
Mar. 25	Nevada	Mar. 19
Mar. 25	Cleveland, O.	Mar. 19
Mar. 25	Alabama	Mar. 19
Mar. 25	Salisbury, Mo.	Mar. 19
Mar. 25	Lisbon, O.	Mar. 19
Mar. 26	West Virginia	Mar. 5
Mar. 26	Virginia	Mar. 12
Mar. 26	Janesville, Wis.	Mar. 19
Mar. 26	Kenosha, Wis.	Mar. 19
Mar. 26	Michigan	Mar. 19
Mar. 26	New York, N. Y.	Mar. 19
Mar. 26	Baltimore, Md.	Mar. 19
Mar. 27	Sweetwater, Tex.	Mar. 5
Mar. 27	Sinton, Tex.	Mar. 12
Mar. 27	Pennsylvania Adv. Mar. 12 and 19.	Mar. 12
Mar. 27	Deal, N. J. Adv. Mar. 12 and 19.	Mar. 12
Mar. 27	Tennessee	Mar. 19
Mar. 27	Wyoming	Mar. 19
Mar. 27	North Beach Haven, N. J.	Mar. 19
Mar. 27	Michigan	Mar. 19
Mar. 27	Quebec	Mar. 19
Mar. 28	Missouri	Mar. 19
Mar. 29	California	Feb. 19
Mar. 30	Duluth, Minn.	Feb. 12
Mar. 30	Kingston, Pa.	Mar. 12
Mar. 30	Akron, O.	Mar. 12
Mar. 30	Central Falls, R. I. Adv. Mar. 19.	Mar. 19
Mar. 30	Millersburg, O. Adv. Mar. 19.	Mar. 19
Mar. 30	San Diego, Calif.	Mar. 19
Mar. 31	Water Valley, Miss.	Mar. 19
Mar. 31	Pennington, N. J.	Mar. 19
Mar. 31	Louisiana	Mar. 19
Mar. 31	Albany, Tex.	Mar. 19
Mar. 31	Quebec	Mar. 19
Mar. 31	Michigan	Mar. 19
Mar. 31	Trenton, N. J. Adv. Mar 19.	Mar. 19
Apr. 1	Birmingham, Ala.	Feb. 19
Apr. 1	Tuscaloosa, Ala.	Mar. 19
Apr. 1	Cape May, N. J. Adv. Mar. 12 and 19.	Mar. 12
Apr. 1	Nevada	Mar. 19
Apr. 2	Michigan	Mar. 19
Apr. 2	Louisiana	Mar. 19
Apr. 3	New York Adv. Mar. 19.	Mar. 19
Apr. 3	North Dakota	Mar. 5
Apr. 4	Quakertown, N. J.	Mar. 19
Apr. 6	Sardis, Minn.	Mar. 19
Apr. 6	New Jersey	Mar. 19
Apr. 6	Sedalia, Mo.	Mar. 12
Apr. 7	North Dakota	Mar. 5
Apr. 14	Marion, Ia.	Mar. 19
June 1	Duluth, Minn.	Mar. 12
	BUILDINGS—COMMERCIAL	
Mar. 20	Altoona, Pa.	Mar. 12
Mar. 20	Milwaukee, Wis.	Mar. 12
Mar. 20	Kingston, Ont.	Mar. 19
Mar. 23	Cincinnati, O.	Mar. 12

Bids Close		See Eng. News-Record
Mar. 23	Norwood, O.	Mar. 12
Mar. 23	Detroit, Mich.	Mar. 12
Mar. 23	Chester, Pa.	Mar. 19
Mar. 23	Milwaukee, Wis.	Mar. 19
Mar. 23	Columbus, O.	Mar. 19
Mar. 24	Cumberland, Md.	Mar. 5
Mar. 24	Little Rock, Ark.	Mar. 12
Mar. 24	Oakland, Calif.	Mar. 19
Mar. 25	New Bedford, Mass.	Mar. 5
Mar. 25	Mechanicsville, N. Y.	Mar. 5
Mar. 25	Creston, Ia.	Mar. 12
Mar. 25	Stonington, Conn.	Mar. 19
Mar. 25	Corpus Christi, Tex.	Mar. 19
Mar. 26	Milwaukee, Wis.	Mar. 19
Mar. 27	Buffalo, N. Y.	Mar. 12
Mar. 28	Bowling Green, O.	Mar. 19
Mar. 30	Mt. Vernon, Ind.	Mar. 12
Mar. 31	Washington	Mar. 12
Mar. 31	Urbana, Ill.	Mar. 19
Mar. 31	Toronto, Ont.	Mar. 19
Apr. 1	Zanesville, O.	Feb. 19
Apr. 1	San Francisco, Calif.	Mar. 12
Apr. 1	Wichita Falls, Tex.	Mar. 19
Apr. 1	Williamstown, Mass.	Mar. 19
Apr. 6	Cleveland Heights (Warrensville P. O.), O.	Mar. 19
Apr. 7	San Antonio, Tex.	Mar. 19
Apr. 8	Brooklyn, N. Y.	Mar. 19
Apr. 11	Euclid, O.	Mar. 19
Apr. 13	Harrisburg, Pa.	Mar. 19
Apr. 20	Minneapolis, Minn.	Mar. 19
May 1	Johnstown, Pa.	Mar. 19
July 14	Phila., Pa.	Feb. 19

FEDERAL GOVERNMENT WORK

Bids Close		See Eng. News-Record
Mar. 20	Steel—Louisville, Ky. Adv. Mar. 5 to 19.	Mar. 5
Mar. 20	Bridges — Wilmington, Del. Adv. Mar. 5 to 19.	Mar. 5
Mar. 20	Dredging—Providence, R. I.	Feb. 19
Mar. 22	Substation Equipment — Ft. Warren, Mass.	Mar. 12
Mar. 25	Extension—San Francisco, Calif.	Mar. 5
Mar. 25	Cement—Milwaukee, Wis.	Mar. 19
Mar. 27	Dredging—Providence, R. I. Adv. Feb. 26 to Mar. 19.	Feb. 26
Mar. 27	Drainage—Baltimore, Md. Adv. Mar. 19.	Mar. 12
Mar. 27	Roofing—Florence, Ala.	Mar. 19
Mar. 27	Gravel and Sand—Milwaukee, Wis.	Mar. 19
Mar. 28	Dredging—Charleston, S. C. Adv. Feb. 26 to Mar. 19.	Feb. 26
Mar. 30	Post Office—Thibodaux, La.	Mar. 12
Mar. 31	Sheet Piling—Louisville, Ky. Adv. Mar. 5 to 19.	Mar. 5
Mar. 31	Earthwork—Memphis, Tenn. Adv. Mar. 12 and 19.	Mar. 12
Mar. 31	Repairs—Fort Wright (Fishers Island P. O.), N. Y. Adv. Mar. 12 and 19.	Mar. 12
Apr. 1	Alterations—Norfolk, Va.	Mar. 12
Apr. 2	Breakwater Repairs—Burlington, Va. Adv. Mar. 19.	Mar. 19
Apr. 4	Dredging—Galveston, Tex. Adv. Mar. 5 to 19.	Mar. 5
Apr. 6	Dredging—Brooklyn, N. Y. Adv. Mar. 19.	Mar. 19
Apr. 8	Hangars—Pearl Harbors, H. T.	Feb. 19
Apr. 9	Dredging — New York, N. Y. Adv. Mar. 12 and 19.	Mar. 12
Apr. 10	Cement—Louisville, Ky. Adv. Mar. 12 and 19.	Mar. 12
Apr. 14	Tug—Milwaukee, Wis. Adv. Mar. 19.	Mar. 19
Apr. 15	Water Tank—Guantanamo Bay, Cuba Adv. Mar. 19.	Mar. 12
Apr. 15	Removing Wreck—Norfolk, Va. Adv. Mar. 19.	Mar. 19
Apr. 16	Lime—Louisville, Ky. Adv. Mar. 19.	Mar. 19

UNCLASSIFIED

Bids Close		See Eng. News-Record
Mar. 23	Harbor Improvements—Port Stanley, Ont.	Mar. 5
Mar. 24	Guard Rail — South Dakota	Mar. 12
Mar. 25	Subway—Rochester, N. Y.	Mar. 5
Mar. 25	Fire Alarm System—Willard, N. Y. Adv. Mar. 19.	Feb. 26
Mar. 25	Fire Sprinklers—Buffalo, N. Y.	Feb. 26
Mar. 25	Heating Work—Utica, N. Y.	Mar. 5
Mar. 25	Fire Protection—Utica, N. Y.	Mar. 12
Mar. 26	Culvert—Dorchester (Boston P. O.), Mass.	Mar. 19
Mar. 27	Ornamental Street Lighting System—Dallas, Tex.	Mar. 19
Mar. 27	Subway—Brooklyn, N. Y.	Mar. 19
Mar. 27	Station Finish—Long Island City, N. Y.	Mar. 19
Mar. 30	Park Improvements—Minneapolis, Minn.	Mar. 19
Mar. 31	Heating, Ventilating, etc., Ithaca, N. Y. Adv. Mar. 5 to 19.	Mar. 12
Mar. 31	Police and Fire Alarm — Mobile, Ala.	Mar. 5
Apr. 1	Underpass—Nevada	Mar. 19
Apr. 16	Fire Protection — Newark, N. Y. Adv. Mar. 19.	Mar. 12
May 8	Tunnel—New York, N. Y. Adv. Mar. 5 to 19.	Mar. 5

MATERIAL AND EQUIPMENT

Bids Close		See Eng. News-Record
Mar. 19	Sand Gravel, etc.—Everett, Mass.	Mar. 19
Mar. 20	Oil—Somerville, N. J.	Mar. 19
Mar. 20	Sand, etc.—Medford, Mass.	Mar. 19
Mar. 20	Fuel Oil—Long Island City, N. Y.	Mar. 19
Mar. 20	Sewer Bricks, etc.—Boston, Mass.	Mar. 19
Mar. 23	Road Machinery—Stevens Point, Wis.	Mar. 19
Mar. 23	Lime, Steam Roller, etc.—Long Island City, N. Y.	Mar. 19
Mar. 24	Street Sweeper—Appleton, Wis.	Mar. 5
Mar. 24	Graders — Montevideo, Minn.	Mar. 12
Mar. 24	Paving Material—St. Paul, Minn.	Mar. 19
Mar. 24	Street Flusher—Minneapolis, Minn.	Mar. 19
Mar. 24	Road Oil, etc.—Boston, Mass.	Mar. 19
Mar. 25	Tar—Augusta, Me.	Mar. 19
Mar. 25	Asphalt Roller, etc.—Hamilton, Ont.	Mar. 19
Mar. 26	Sand, Gravel, etc.—Everett, Mass.	Mar. 19
Mar. 26	Oil, Asphalt, etc.—Brantford, Ont.	Mar. 19
Mar. 26	Pipe, etc.—Baltimore, Md.	Mar. 19
Mar. 27	Tar—Cincinnati, O.	Mar. 19
Mar. 30	Snow Plows—Delaware	Mar. 12
Apr. 1	Crane — Melbourne, Australia	Feb. 19
Apr. 3	Street Flusher and Truck — Wauwatosa, Wis.	Mar. 12
Apr. 8	Road Machinery—Fargo, N. D.	Mar. 19

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Andover — Bd. Selectmen plans extending mains in various streets. $17,000 appropriated. Engineer not selected.

Mass., Braintree—Plans extending present mains and additional mains through various streets. $15,000. Engineer not selected.

Mass., Milford—Voted $19,000 bonds extending water mains and sewers in various streets. Engineer not selected.

Mass., Townsend—Plans to issue $150,000 bonds for water system, also votes to borrow $65,000 additional for same. Engineer not selected.

N. Y., Canandaigua — Plans to issue bonds for purchasing and installing 1 duplicate or auxiliary electric motor and pump, and removing old water pumps and steam boilers, etc., at waterworks pumping station. B. T. Cappon, city clk.

N. Y., Port Ewen—Making plans water supply and distribution system. H. J. Harder, 129 Market St., Paterson, N. J., engr.

Kan., Arkansas City — Election Apr. 7, $65,000 bonds for replacing flow lines from city wells along Arkansas River to city pumping station and reservoir. C. A. Snyder, city clk.

Kan., Aurora—Election Apr. 6, $27,000 bonds new waterworks.

Missouri — Raytown Water Co., Raytown making plans about 3½ mi. 8 in. main from Kansas City mains at Leeds to Raytown and 6 in. mains to outlying districts. $50,000. Henrici-Lowry Eng. Co., 402 Security Bldg., Kansas City, engrs.

Mo., St. Louis—Water Dept. making preliminary plans removing and replacing four 350 hp. boilers with four 500 hp. boilers and appurtenances for Boiler House 2 at Bissell's Point Waterworks Pumping Station. E. E. Wall, City Hall. comr.

Tex., Amarillo—Voted $1,750,000 bonds, waterworks improvement, incl. 3 m.g. storage reservoir, 27 in. concrete pipe flow line, 5 m.g. distributing reservoir, 6 shallow wells, combined capacity 5,500,000 gal., six 1,000 g.p.m. deep well and two 2,000 g.p.m. horizontal pumps, Chicago or Des Moines 500,000 gal. tank on 150 ft. tower. H. B. Jones, city engr. Noted Jan. 29.

Tex., Dilley—Soon takes bids pumping machinery, distribution system, tank and tower, also ice plant in connection with waterworks system. $30,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Mar. 5.

Tex., Donna—Making plans waterworks improvement, incl. mains, pumping equipment, tank and tower, etc. $50,000. H. J. Wilson, San Juan, engr. Noted Mar. 5.

Tex., Magnolia Park — Voted $50,000 bonds waterworks improvement. H. Culpepper, Box 234, Central Park Sta., Houston, engr. Noted Feb. 12.

Tex., Temple — Election Apr. 6, $50,000 bonds additional mains and new pumping equipment, etc. H. G. Graeser, city mgr.

Okla., Chandler—Made preliminary plans rebuilding waterworks system, incl. mains, pumps, new wells and new elevated tank on tower. D. D. Landsaw, city clk., Engineer and architect not selected.

Okla., Lawton—Voted $80,000 bonds for filtration plant. H. G. Olmsted & Co., 2230 West 18th St., Oklahoma City, engrs. Noted Feb. 12.

Ont., London—Utilities Bd. making plans extending 12 in. mains in northern part of city. $100,000. E. W. Buchanan, Hydro Officers, engr.

Okla., Newkirk—Election Apr. 7, $115,000 bonds for new wells, Triplex pumps, motors, reservoir, supply mains, and 2,600 ft. 10 in. c.i. pipe, etc. F. B. King, Grain Exch. Bldg., Oklahoma City, engr. Noted Sept. 18.

Wash., Olympia — Making surveys 10 mg. reservoir and system. $150,000. N. W. Avery, Olympia, engr.

BIDS DESIRED

N. Y., Brooklyn — Mar. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Montauk, P. T and X Aves., Rockaway Parkway, Crescent, West, Marsh, 89th, East 1st, 2nd, 28th, 36th and 95th Sts., here.

N. Y., New York — Mar. 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bway., Riverside Dr., Ave. A, 1st, 2nd, 3rd, Lexington, Park, Madion, 5th, Lenox, St. Nicholas, 7th, 8th, Columbus, Amsterdam, and West End Ave., Bedford, Broome, Charlton, Christopher, Greenwich, Hudson, King, Washington, East 82nd, 99th 101st, 107th, 122nd, 123rd, West 57th, 72nd, 118th, 123rd and 139th Sts.

N. Y., St. George — Mar. 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Richmond Turnpike, Clove and Manor Rds., Clinton, Forrest, Henderson and Westervelt Aves., here.

N. C., Apex—Apr. 15, by E. C. Sinclair, mayor and Bd. Town Comrs. waterworks and sewerage. G. C. White Co., Durham engrs.; adv. E. N.-R. Mar. 19.

N. C., Goldsboro—Taking bids 9,000 ft. 8 in. c.i. pipe 11,860 ft. 6 in., and 13,200 ft. 1½ in. pipe 1,240 ft. 12 in., 5,265 ft. 10 in. and 24,870 ft. 8 in. sewer pipe, 100 gal. steel tank, 1 drilled well, 35 fire hydrants, necessary engines, pumps, tanks and valves. J. B. McCrary Co., Citizens & Savings Bank Bldg., Atlanta, Ga., engrs.

O., Cincinnati—Mar. 24, by Comrs. Hamilton Co., 3,650 ft. 16 in. c.i. mains in Water Supply Line 7, Dist. 1 (Silverton), Contr. 2, $25,606; 10,288 ft. 6 and 8 in. c.i. mains in Water Supply Line 8 (White Oaks), Contr. 1, $28,495; and 7,778 ft. 6 and 8 in. c.i. mains in Water Supply Line 9, Dist. 1 (Montgomery Rd.), $18,837. L. C. Boyatt, Court House, engr. Noted Jan. 29 and Feb. 19.

O., Cleveland—Mar. 27, by City, 48 in. steel mains in North Raw Water Main at Kirkland Pumping Station. To exceed $150,000. A. V. Hamlin, City Hall, engr.

Ill., Shelbyville—Mar. 31, by City Clerk, 100,000 gal. steel tank on tower, foundations for pumping equipment, one 500 g.p.m. and one 700 g.p.m. motor driven centrifugal pump, and 4,200 ft. transmission line. $40,000. City has option to take over plant of City Water Co. of Shelbyville for $120,000, and bids are being taken on basis that city shall take over old plant and operate same. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, Mo., engrs.

Wis., Mayville—Mar. 31, by A. Dreger, secy. Pub. Wks., drilling 1,000 ft. artesian well.

Waterworks (Continued)

Wis., Menomonee Falls—Mar. 23, by W. J. Connell, village clk., drilling artesian well, furnishing and installing pumping equipment. W. F. Reichardt, North Main St., Watertown, engr. Noted Oct. 9.

Wis., New Holstein—Mar. 23, by L. W. Hipke, village clerk, pneumatic pumping system, incl. pumps, motors, pipe, concrete reservoir and deep well with motor driven double action pump; also 1 turbine deep well pump and concrete reservoir, etc. J. Donahue Engr. Co., North 8th St., Sheboygan, engrs.

Wis., Wisconsin Rapids — Apr. 14, by C. P. Gross, mgr., filtration plant to remove iron from water supply, Contrs. 1 to 8 (inclusive). W. G. Kirchoffer, 22 North Carroll St., Madison, engr.; adv. E. N.-R. Mar. 19.

Minn., Minneapolis—Mar. 25, by F. S. Gram, city purch. agt., 2 Venturi meters for Water Dept. N. W. Elsberg, city engr.

Minn., Winona—Apr. 8, by Bd. Municipal Wks., City Hall, pumping station, Contr. B, rein.-con. reservoir, Contr. C, c.i. pipes and fittings, Contr. D, valves and sluice gates, Contr. E, air compressors and air lift pumping plant, Contr. F. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., engrs.; adv. E. N.-R. Mar. 19.

Okla., Blackwell — City in market for new motor driven booster pump, 1,000 g.p.m. capacity. W. H. Clark, comr. Pub. Utilities.

BIDS RECEIVED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Mar. 11, mains in Narrows Ave., etc., here, from Grippo Contg. Co., 85 Webster Ave., Long Island City, $10,500. Noted Mar. 5.

Minn., St. Paul—For (1) 90 in. circular butterfly valve (2) 60 in. circular butterfly valve (3) 90 in. circular sluice gate (4) two 60 in. circular sluice gates (5) 48 in. circular sluice gate (6) two 48 x 60 in. rectangular sluice gates, from Michigan Valve & Fdry. Co., Amer. Trust Bldg., Detroit, Mich., (1) $3,200 (3) $2,500 (4) $1,290 each (5) $900 (6) $1,150 each; from Chapman Valve Mfg. Co., Indian Orchard, Mass., (2) $1,395. Noted Feb. 26.

CONTRACTS AWARDED

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Carolin St., etc., to Stanhey Constr. Co., Steinway Ave., $21,945. Noted Mar. 12 under New York City.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Barker, Barnes, Byron Aves., etc., to C. De Blasio, 339 7th Ave., Mt. Vernon, $10,765. Noted Mar. 12.

N. Y., St. George — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Arden, Bismarck, Bowles, Fitzgerald, Hammersley and Kissam Aves., etc., here, to G. V. Cornell, Rosebank, $27,500. Noted Mar. 12.

S. C., Clinton — For 8 x 100 x 100 ft. rein.-con. raw water settling basin, to G. C. Odioene, Clinton, $7,465. Noted Feb. 5.

O., Barberton—J. T. Mentzer, dir. Pub. Serv., improving waterworks incl. 400 ft., dam, 35 ft. high Amhwisen type concrete with steel reinforcments, impounding 600 m.g. water, to Tibbets & Pleasant, West of City, Oklahoma City, Okla. $130,000. Engrs. est. $140,000. Note Jan. 29.

O., Cleveland — City, North Raw Water Main, 11,700 ft. 36 in. steel pipe, to Great Lakes Constr. Co., 2000 B. F. Keith Bldg., $308,295; West Side High Service main 5,000 ft. 36 in. steel pipe and 15,750 lin.ft. 36 in. steel main in Edgewater Dr., to Joseph, Kalill & Jackson, Erie Bldg., $94,858 and $280,060 respectively. Noted Mar. 12.

O., Columbus—See "Sewers."

Wis., Marshfield—City will lay approximately 6,500 lin.ft. 6 in. mains in various streets, with own forces. $25,000. A. Westenborg, City Hall, engr.

Ia., Glenwood—Drilling and casing well 1,040 ft. deep with guaranteed flow of 200 g.p.m., to Layne-Bowler Co., 37 West Van Buren St., Chicago, Ill., $18,900. Noted Jan. 15.

Minn., Minneapolis — F. S. Gram, city purch. agt., for three 30 in., four 24 in., two 36 in., and two 12 in. low pressure check valves, and three 16 in. low pressure gate valves, to Chapman Valve Mfg. Co., Indian Orchard, Mass., 5,119; four 48 in., two 16 in., and one 42 in. high pressure check valves, to Rensselaer Valve Co., Monadnock Bldg., Chicago, Ill., $12,071; and four 5 x 6 ft. sluice gates, to J. B. Clow & Son, 534 South Franklin St., Chicago, $4,860.

Minn., St. Paul — City, Vadnais — Lake McCarron Station conduit, concrete, intake and terminal chambers to D. W. Moore & Moline Bros., 894 Esmund St., for Water Dept., $768,173. Noted Mar. 5.

Mo., Fredericktown — City Clerk, 750 cu.yd. rock trenching, 1,500 cu.yd. hardpan, 4,980 ft. 8 in. 12,015 ft. 6 in. 35,645 ft. 4 and 16 in. and 125 ft. 2 in. c.i. pipe, 32,500 lb. special castings, 75 fire hydrants, 115 valves and boxes, one 75,000 gal. tank on tower and 100,000 gal. rein.-con. reservoir, one pumping station, to Hill & Lamb, Fredericktown, $84,020.

Okla., Quinton—For 250,000 gal. filtration plant, 2 motor driven pumps, elevated tank and coagulation basin, to Case & Brower, Quinton, $20,790. Engrs. est. $16,000. Noted Feb. 19.

Sewers

PROPOSED WORK

Mass., Marblehead—Voted $300,000 bonds extending and improving sewerage system. Engineer not selected.

Conn., New Britain — State Legislature authorized $750,000 bond issue for sewers and subway.

Md., Salisbury—City Council takes bids in April completing sewerage system, $100,000. F. Dryden, Salisbury, engr

Tenn., Knoxville—Plans Lonsdale trunk sewer. $25,000. L. Brownlow, city mgr.

O., Niles—Bd. Control soon takes bids sanitary sewer in streets in Eastern Heights. $100,000.

Mich., Ferndale (Detroit P. O.)—Making plans 56 vitr. or concrete lateral sewers, in various streets and alleys. $100,000. G. Jerome, 1312 Majestic Bldg., Detroit engr.

Ill., East St. Louis—Soon takes bids 8- to 27-in. sanitary sewers in Gertrude Pl. Sewer Dist., $30,000; also grading, hard-surfacing, etc., North 44th St. from Caseyville Rd. to Van Buren. $20,700. Noted Jan. 1. W. McK. Brown, City Hall, engr.

Ill., Streator—Making preliminary plans sanitary sewerage system and disposal plant. $750,000. F. Rey, City Hall, engr.

Ia., Delmar — Making plans sanitary sewerage system. $30,000. H. R. Green, Bever Bldg., Cedar Rapids, engr.

Minn., White Bear — Plans sanitary sewerage system. $35,000. D. Merrick, city mgr.

Neb., Columbus — City, c/o W. Becker, city clk., soon takes bids storm sewer with outlet to Loup River. $45,000. J. M. Cunz, city engr. Noted Mar. 12.

Tex., Dallas—Election Apr. 7, $300,000 bonds sanitary sewers and $100,000 bonds storm sewers in various streets. E. A. Kingsley, city engr.

Tex., Magnolia Park — Making plans sanitary and storm sewers. $50,000 and $350,000 bonds voted respectively. H. Culpepper, Box 234, Central Park Sta., Houston, engr. Noted Feb. 12.

Tex., Rosebud — Voted $38,000 bonds sewerage system. G. W. Lehman, mayor. Engineer not announced.

Okla., Sand Springs—Defeated $180,000 bonds for 10,500 ft. 36- to 60-in. segmental block sewers in various streets. Holway Eng. Co., Wright Bldg., Tulsa, engrs. Noted Mar. 5.

Calif., Los Angeles—Metropolitan Sewage Disposal Dist. of Los Angeles Co. voted $3,600,000 bonds for sewers in Dist. 1, $3,520,000 bonds in Dist. 2, and $2,000,000 bonds in Dist. 5. A. K. Warren, co. sanitation and drainage engr. Noted July 31.

Calif., Palo Alto—Making plans storm and sanitary sewers in Embarcadero Rd. $40,000. J. F. Bxybee, Jr., city engr.

BIDS DESIRED

N. Y., New York — Mar. 26, by H. Bruckner, pres. Bronx Boro., sewers in White Plains Rd., Exterior St., Edison, Hammersley and Seymour Aves.

Pa., Juniata (branch Altoona)—Mar. 31, by Boro Council, W. H. Baird, secy., Boro Hall, 2,370 lin.ft. 15 and 18 in. vitr. clay and 24 in. rein.-con. sewers, etc., in Six Alley through to Twin Culverts. $25,000. D. W. Dillman, Altoona Trust Bldg., Altoona, engr.

Md., Baltimore — Mar. 26, by Bd. Awards, storm and sanitary sewers in Dists. G-14 and J-1, Storm Water Contr. 81. B. L. Crozier, City Hall, highways engr.

N. C., Apex—See "Waterworks."

N. C., Goldsboro—See "Waterworks."

N. C., Wilson—Mar. 30, by S. L. Lucas, mayor, and Bd. City Comrs. sanitary sewerage system, incl. 9,500 cu.yd. trench excav., 2,000 ft. 12 in. and 2,600 ft. 15 in. clay, shale or fire clay pipe, also 200 ft. 12 in. and 150 ft. 15 in. Class A c.i. pipe, etc. R. D. Gladding, Wilson, engr.

O., Garfield Heights (Cleveland P. O.)—Mar. 23, by sewers in Garfield Blvd. To exceed $25,000. R. Munz, Town Hall, engr.

O., Millersburg — See "Streets and Roads."

Wis., Milwaukee — Mar. 24, by J. H. Fowles, secy., Metropolitan Sewerage Comn., 508 Market St., 7,310 ft. 30 in. concrete, 2,620 ft. 24 in. terra cotta sewers, 664 vertical ft. standard and 48 vertical ft. drop manholes, etc., in 1st Ave. extension. T. C. Hatton, engr.

Ark., Arkadelphia — See "Streets and Roads."

Tex., Galveston—City, c/o E. M. Owens, street comr., taking bids 2,724 ft. 2½ x 2 ft., 2,350 ft. 2½ x 3 ft. and 2,130 ft. 2½ x 3½ ft. rein.-con. drains, 2,400 ft. 10 in. vitr. laterals, 96 concrete catch basins, and concrete surface drains, 2 ft. x 70 ft. x 9 in. each, etc. C. A. Holt, Jr., city engr.

Calif., Burbank — Mar. 31, by City Trustees, sewers in various streets, 101,740 ft. 8 in. vitr. pipe, 2,516 ft. 10 in. pipe, 3,228 ft. 8 x 6 in. vitr. and 40 ft. 6 in. pipe wye or tee branches, 7,200 ft. house sewers, etc. A. J. Rose, city engr.

Calif., San Diego — Mar. 30, by A. H. Wright, city clk., 18,083 lin.ft. 6 in. cement and 72 lin.ft. 8 in. concrete sewer, etc., in South LaJolla St. F. A. Rhodes, city engr. Noted Feb. 12.

Ont., Toronto—Mar. 25, by F. B. Goedike, engr., 40 Jarvis St., 25,000 ft. 8 and 10 in. vitr. tile sewers in Hanson Rd., Mulberry Crescent, Jesmond, Ashbury, Amherst, Earlsdale, Holland Park, Cedric, Robina and Ossington Aves., for York Twp. $60,000.

BIDS RECEIVED

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, Mar. 12, **(e. e. means engineers estimate)** from S. Ajazranzo, sewers in East 46th St. 73.5% e.e. $3,101; Argyle Rd. 73.73% e. e. $2,695, from Standard Constr. Co., 705 Park Ave., storm and sanitary sewer in East 18th St., 67% e. e. $8,219, 40th St., 72% e. e. $5,690, 73rd St., 78% e. e. $3,997, from Tomassetti & Co., 1133 60th St. Georgia Ave. 65.75% e. e. $4,391. Noted Mar. 5.

CONTRACTS AWARDED

Md., Baltimore—Bd. Awards, 1,850 ft. 48 and 54 in., 760 ft. 36 in. concrete and 1,270 ft. 15 in. vitr. sanitary sewers in Storm Water Contr. 82, to F. D. Carozza, Govans, $39,540. Noted Mar. 12.

O., Cleveland—Sewers in Oak Park and Kildeer Aves., to Salem & George Co., Erie Bldg., $8,469 and $17,130 respectively; Chickasaw Ave., to Hadded & Kariel Constr. Co., 415 Eagle Ave., $15,132. Work involves 9,905 ft. 12 to 24-in. vitr. clay pipe. Noted Mar. 12.

O., Columbus—Franklin Co., 8,930 ft. 8 in. vitr. sewers etc., in Sewer Dist. Clinton 2, Contr. 52, to W. D. Sullivan, 951 Mt. Pleasant Ave., $20,456; 2,525 ft. 6 and 8 in. ci. mains, etc., in Sewer Dist. Clinton 2, Contr. 54, to Riley Constr. Co., Columbus; $6,273, 1,150 ft. 6 in. ci. mains, etc., in Sewer Dist. Franklin 4, Contr. 55, to B. Canini, 1705 Shawnee Ave., $1,822. Noted Feb. 26.

Ill., Elgin—Bd. Trustees Sanitary Dist. 12, pumping and electric equipment, for sewage pumping stations, to Amer. Well Wks., 112 North Bway., Aurora, $20,538. Noted Feb. 5.

Wis., Menasha—Extending vitrified clay sewerage system in various streets, to E. A. Yahr, c/o Milwaukee Athletic Club, Milwaukee, $26,856.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 market St., 10,950 ft. 30 in. concrete sewer etc., in Lincoln Ave., Sect. 1, to H. Hohensee, Ludington Ave., Wauwatosa, $409,800. Noted Mar. 5.

Ark., Rogers—Sanitary sewerage system and disposal plant, to J. S. Terry, Poteau, Okla., $33,220.

Calif., Los Angeles—Constructing sewers in Lakewood Ave. between Glendale Blvd. and Armstrong Ave., known as Lakewood Ave. and Ivanhoe Dr. Sewer Dist., to T. Haverty, 316 East 8th St., $10,790.

Waste Disposal

PROPOSED WORK

Tex., Dallas—Election Apr. 7, $100,000 bonds for incinerators. E. A. Kingsley, city engr.

Waste Disposal (Continued)

BIDS DESIRED

N. Y., Buffalo—Apr. 2, by Commissioner Pub. Wks., Municipal Bldg., constructing garbage disposal plant. To exceed $200,000. W. F. Schwartz, comr. Address Metcalfe & Eddy, 14 Beacon St., Boston, Mass., consult. engrs.

Bridges

PROPOSED WORK

Me., Bath — State Hy. Comn., State House, Augusta, plans bridge over Kennebec River, here. J. A. L. Waddell, 150 Bway., New York City, engr.

Vt., Plymouth—See "Streets and Roads."

Mass., Barnstable — See "Streets and Roads."

Mass., Concord — See "Streets and Roads."

Mass., Easthampton—See "Streets and Roads."

N. Y., Buffalo—Plans to issue $200,000 bonds for Cazenovia and Buffalo River bridges.

N. J., Newark—Bd. Freeholders Essex Co., making plans two 50 ft. spans plate girder bridge, at Lower Chatham, $45,000, also rebuilding counterweight of bascule bridge at Bellville, $20,000. W. A. Stickel, Court House, engr.

Va., Lynchburg—Plans 906 ft. bridge, 120 ft. high, iron, concrete encasement and reinforcements. $400,000. A. C. Janni, 13 Park Row, New York City, and A. J. Saville, City Hall, Richmond, engrs.

N. C., Statesville — See "Streets and Roads."

N. C., Wilmington — New Hanover Co. has been authorized by State Legislature to borrow $1,500,000 for 500 ft. span, elevator type bridge across Cape Fear, foot of Ann St.

N. C., Wilson—See "Streets and Roads."

Wisconsin—See "Railways."

Wis., Muscoda—Plans 1,050 ft. steel and concrete bridge, 20 ft. roadway. State appropriates $60,000, Village of Muscoda $30,000, Town of Eagle $30,000, Grant Co. (Lancaster) $30,000, and Richland Co. (Richland Center) $30,000 toward cost. J. H. Donaghey, Madison, state highway engr.

Kan., Kansas City — Missouri Pacific R.R. Co., St. Louis and Liberty Sts., plans two 60 ft. rein.-con. bridges one at Chelsea trafficway, and other at 18th St. $25,000 each. E. A. Hadley, ch. engr. R. L. McAlpine, city engr.

North Dakota — State Hy. Dept., Bismarck, plans bridge over Des Lacs Lake, in Ward Co., not to exceed $100,000; 4 span, about 1,200 ft. steel bridge in Sanish between Mountrail and McKenzie Counties, $400,000, 1 span, about 200 ft. steel and concrete bridge in Fargo, N. D., and Moorehead, Minn., not to exceed $200,000; probably 4 span, 1,200 ft. steel and concrete bridge in Williston between Williams and McKenzie Counties, $500,000. W. G. Black, state engr.

Tex., Albany—See "Streets and Roads."

Tex., Beaumont—City defeated $300,000 bonds (its portion toward cost) viaduct across Southern Pacific Ry. tracks, which was to be built by city and railroad. R. C. Black, city engr. Noted Mar. 12.

Washington—See "Streets and Roads."

Oregon and Washington — H. S. Nunn, state highway engr., Portland, Ore., submitted preliminary report on Interstate Bridge, to have 1,000 ft. channel span, elevation of 120 ft. above highwater across Columbia River between Ranier, Ore., and Longview, Wash. $2,000,000. W. Vandercook, ch. engr. for Long Bell Lumber Co., Longview, Wash., made application to Congress for permit to build such a bridge.

Ont., Toronto—Plans reconstructing 500 ft. concrete bridge, 66 ft. over South Glen Rd $450,000. R. C. Harris, City Hall, engr.

BIDS DESIRED

Pa., Masontown — Apr. 2, at office E. Huston, controller Fayette Co., Court House, Uniontown, and at office Comrs. Greene Co., Court House, Waynesburg, substructure, superstructure and approaches of 3,858 ft. intercounty bridge over Monongahela River, here. J. Farris, of Farris Eng. Co., Empire Bldg., Pittsburgh, consult. engr.

Miss., Water Valley—See "Streets and Roads."

Louisiana—Mar. 31, by State Hy. Dept., Reymond Bldg., Baton Rouge, repairing Alexandria traffic bridge Project 433, between Alexandria and Pineville, Rapides Parish, 147,000 ft. creosoted and 25,000 ft. untreated lumber, 50,000 lb. structural steel traffic treads, etc. W. B. Roberts, ch. engr.

Tennessee—See "Streets and Roads."

Tennessee—Mar. 27, by State Dept. Hys. & Pub. Wks., Nashville, 5 rein.-con. bridges on road between Sta. 399 and Savannah, State Aid Project 187-B, Hardin Co.; and 7 concrete bridges each over 20 ft. span on Milan-Weakley Co. line Rd., State Aid Project 193, Gibson Co. J. G. Creveling, highway comr.

Michigan—See "Streets and Roads."

Missouri—Mar. 28, by State Hy. Comn., Jefferson City, five 40 ft. rein.-con. deck girder spans, etc. over Niaugua River, two 20 ft. rein.-con. slab spans, etc., over Tunas Branch, two 20 ft. rein.-con. deck girder spans, etc. over Coatney Branch, all Dallas Co.; one 90 ft. steel truss span, etc. over Little Sniabar Creek, one 45 ft., one 40 ft., and six 12 ft. rein.-con. deck girder spans, etc. over stream, all Lafayette Co.; one 200 ft. steel truss, fourteen 20 ft. rein.-con. slab and two 45 ft. rein.-con. deck girder spans, etc. over Spring River, one 80 ft. steel truss and four 24 ft. rein.-con. slab spans, etc. over White Oak Creek, two 18 ft. and three 20 ft. rein.-con. slab spans, etc. over stream, all Jasper Co.; four 40 ft. rein.-con. deck girder spans, etc. over Second Creek, three 30 ft. rein.-con. deck girder spans, etc. over Schulte Creek, both Gasconade Co.; one 130 ft. and two 60 ft. steel truss spans, etc. over Auxoasse River, one 140 ft., one 80 ft. and one 50 ft. steel truss span, etc. over Saline River, both St. Genevieve Co.; two 70 ft. steel truss spans, etc. over Whetstone Creek, Wright Co.; one 24 ft. two 20 ft. rein.-con. slab spans, etc. over Missouri and Illinois R.R. tracks, St. Francois Co.; 130 ft. steel truss span, etc. over Blue River, Jackson Co.; one 30 ft. and one 25 ft. rein.-con. deck girder spans, etc. over Mississippi River and Bonne Terre R.R. tracks, Jefferson Co.; one 30 ft. rein.-con. deck girder span, etc. over Kochs Creek, Perry Co.; two 10 ft. rein.-con. slab spans, etc. over stream, Vernon Co. B. H. Piepmeier, ch. engr.

Wyoming—Mar. 27, by State Hy. Comn., Cheyenne, for 8 creosoted timber bridges near Alaova, Lander-Rawlins Rd., Federal Aid Project 162-B, Fremont Co., involv. 3,264 wooden piles to be furnished by state, $25,000; 380 ft. steel truss bridge over Shoshone River, Federal Aid Project 176-A, Bighorn Co., $75,000; two span I beam bridge over Pole Creek and three span I beam bridge over Boulders Creek, all spans 37.5 ft. long, Federal Aid Project 140-A, Sublette Co., $35,000. J. F. Seiler, state highway engr.

BIDS RECEIVED

Massachusetts—Metropolitan Dist. Comn. 1 Ashburton Pl., Boston, three arch rein.-con. bridge and approaches over Charles River at Cambridge, Boston and River Sts., from L. S. White, 25 Huntington Ave., Boston, $238,518. Noted Mar. 5.

Pa., Williamsport — Comrs. Lycoming Co., Mar. 10, (a) Bridge 2 (b) Bridge 3, both 3 span, 180 ft. long, 24 ft. wide, rein.-con. and steel over Lycoming Creek, from Wolfe, Eisenhower & Sheffer, Jersey Shore (a) $44,416 (b) $48,324, for both $87,745; from R. R. Myers, Lewistown, (a) $44,900 (b) $45,300 both $89,700. Noted Feb. 19.

Tex., Henrietta — See "Streets and Roads."

CONTRACTS AWARDED

Va., Roanoke — Bridge over Roanoke River at 13th St., to W. W. Boxley & Co., Roanoke, $285,044.

Ga., Savannah—Chatham Co. additional bridge openings and 550 ft. additional bridge, over Savannah River, on Project 286, to G. S. Wright, Athens, $34,936.

Illinois—Dept. Pub. Wks. Building, Div. Highways, Springfield, bridges on Route 36, Sect. 14-B, Pike Co., to Herrick Constr. Co., Carlinville, $23,639; on Route 22, Sect. 20-B, Lake Co., to J. E. Hinman & Son, Glenwood City, Wis., $41,588; on Route 31, Sect. 156, Schuyler Co., to Illinois Steel Bridge Co., Jacksonville, $13,589. Noted Dec. 11 and 26.

Ill., Urbana—Champaign Co. Hy. Dept., one 26 ft. span rein.-con. slab bridge, and 2 span 55 ft. rein.-con. girder bridge, Route 16, Sect. 50-B, Pesotum and Crittenden Twps., to V. L. Peters, Homer, $15,937; two 24 ft. rein.-con. slab, one 30 ft. and two 50 ft. rein.-con. girder bridges, Route 11, Sects. 53-B-15-D, Rantoul and Compromise Twps., to Nelson Constr. Co., Champaign, $19,910; one 22 ft. rein.-con. slab and one 35 ft. rein.-con. girder bridges, Route 10, Sect. 69-B-15-D, East Bend and Condit Twps., to C. Athey, Paris, $8,897.

Ia., Bloomfield — Davis Co., two 90 ft. pony truss bridges with 20 ft. roadways, to Snyder & Johnson, Humbolt, $28,350; one 40 ft. deck girder bridge and 46 box culverts and extensions, to A. F. Johnson, Lockbridge, $47,414.

Neb., Plattsmouth—King of Trails Bridge Co., c/o S. S. Davis, secy., Omaha, 1,250 ft. steel bridge over Platte River, south of here, connecting Sarpy and Cass Counties, to Economic Bridge Co., Lincoln, $104,130.

Tex., Boston—See "Streets and Roads."

Tex., Pearsall—See "Streets and Roads."

Oklahoma—State Hy. Dept., Oklahoma City, 60 ft. steel truss bridge on concrete piers, incl. 8.3 tons steel piling, etc., at Ollton, Creek Co., to T. Collins, Cushing, $23,641, e. e. $25,000; 82 new rein.-con. culverts in Garfield Co., to M. Butterman, Edmond, $28,639, e. e. $30,000. Noted Feb. 19.

Oklahoma—State Hy. Dept., Oklahoma City, 2 span 80 ft. steel bridge with concrete piers and abutments, incl. 2,180 ft. wooden piling, at Pharoah, Okmulgee Co., to Ellis & Lewis, Muskogee, $28,816, engrs. est. $30,000; 2 span 160 ft. steel bridge with concrete piers, incl. 5,240 ft. wooden piling, etc., at Tussing, Canadian Co., to T. Evans, Oklahoma City, $24,916, engrs. est. $25,000.

Okla., Davidson — H. Bovay, Stuttgart, will build 300 span, 6,000 ft. untreated timber pile trestle bridge with timber deck, by day labor. $300,000. Engineer not selected.

Oregon—State Hy. Comn., Portland, 3 span, 265 ft. steel and concrete bridge over Willow Creek on Roosevelt Highway, Curry Co., to C. J. Montague, Portland, $47,046.

Dams

PROPOSED WORK

Wis., Kaukauna — See "Buildings—Industrial."

Mo., Leeper — Black River Power & Development Co. plans large power dam, generating power and protecting farm lands in Butler and adjoining counties from flood waters, on Black River, above here. $3,500,000. W. H. Meredith, Poplar Bluff, heads syndicate. R. I. Randolph, 38 South Dearborn St., Chicago, Ill., engrs.

BIDS DESIRED

B. C., Burton—Apr. 7, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., constructing rock mound, submerged dams, rock weighting of existing mattress work, and removing portion of Deer Rock, in Columbia River Narrows, West Kootenay Dist., below here. $50,000.

Railways

PROPOSED WORK

Wisconsin—Milwaukee Electric Railway & Light Co., Pub. Serv. Bldg., South Bway., plans extending street car and interurban lines from 35th and Clybourn Sts., in Milwaukee, across Menomonee Valley on a viaduct to West Allis. $700,000.

Texas — Atchison, Topeka & Santa Fe Ry., 80 East Jackson St., Chicago, Ill., plans 60 mi. standard gauge railroad extension from Doud in Lubbock Co. to middle Cochran Co. $350,000. Private plans.

Texas — Gulf Coast Lines, Union Sta., Houston, soon takes bids 25 mi. road bed and standard trackage, grades, bridges, etc. between Raymondville and Edinburg. $200,000. C. S. Kirkpatrick, ch. engr.

CONTRACTS AWARDED

North Carolina — Snow Hill R.R. Co., Snow Hill, grading and constructing 6 mi. railroad from Snow Hill to Hookerton, to N. L. Teer, Durham.

Louisiana—Missouri—Pacific R.R., Ry. Exch. Bldg., St. Louis, Mo., 10.8 mi. extension of standard gage railroad from Epps to connect with Vicksburg, Shreveport, and Pacific R.R. at Delhi, to L. M. Wimbley Constr. Co., Arcadia. Engrs. est. $350,000.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

N. Y., Buffalo—Plans to issue $100,000 bonds improving Buffalo River and $500,000 bonds improving Scajaquada Creek.

Iowa—Greene Co. (Jefferson) and Guthrie Co. (Guthrie Center) plan drainage ditches to empty into Mosquito Creek north of Bagley, Guthrie Co., also drain about

Excavation, Drainage, Irrigation, Levees (Continued)

1,300 acres in Greene Co. and 400 acres in Guthrie Co. $21,000.

Ia., Marengo — Iowa Co. rejected bids 6,900 ft. levee work, 25,000 cu.yd. levee fill and 4,400 cu.yd. channel excav. F. A. Peterson, Court House, engr. Noted Feb. 26.

Kan., Wichita — Plans walls, levees and riprap on West bank of Little Arkansas River from Griffensteni Bridge to Woodman Bridge. $25,000. P. L. Brockway, City Bldg., engr.

Washington — King Co. (Seattle and Pierce Co. Tacoma) approved expenditure $116,000 for inter-county river improvement for 1925, incl. $55,000 for levee along Puyallup River. H. F. Gronen, Tacoma, intercounty engr. R. H. Thomson, Seaboard Bldg., Seattle, consult. engr.

Wash., Seattle—See "Industrial Works."

Calif., Grass Valley—Nevada Irrigation Dist. voted $7,250,000 bonds for irrigation work. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr. Noted Feb. 12.

BIDS DESIRED

N. Y., Buffalo — Apr. 6, at office Dept. Pub. Wks., Municipal Bldg., completing Part 1, Sect. 4 of Buffalo River and Cazenovia Creek improvement; adv. E. N.-R. Mar. 19.

CONTRACTS AWARDED

Ill., Jacksonville — Willow Creek D. D., Morgan Co., enlarging main ditch and laterals, approximately 115,543 cu.yd. excav., three 30 in. corrugated iron sluiceways, etc., to McWilliams Dredging Co., 1537 McCormick Bldg., Chicago, $17,354. Noted Feb. 26.

Wis., Fond du Lac—Fischer Paramount Theatres, 36 South State St., Chicago, Ill., excavation for 3 story and basement 75 x 150 ft., brick, concrete and terra cotta theatre and business building, plain foundation, to Immel Constr. Co., Dana Bldg.

Ark., Jonesboro—Bohanan Slough D. D. 5, Green and Craighead Counties, 5 mi. drainage ditch, 63,000 cu.yd. excav., to J. S. Kochtitzky, Jr., England.

Wash., Olympia — Fourth Ave. fill, to Tacoma Dredging Co., Tacoma, 200,000 yd. fill $0.18 per cu.yd. 11,000 piles $11,500, 316 ft. timber $11,060, etc., total $62,390. Engrs. est. $59,868.

Streets and Roads

PROPOSED WORK

Vt., Plymouth—State Hy. Dept., State House, Montpelier, plans highway improvements and bridge repairs, here. $30,000.

Mass., Andover — Bd. Selectmen plans constructing new roads. $26,000 appropriated. Engineer not selected.

Mass., Barnstable—Bd. Selectmen plans highway and bridge improvements. $125,000 appropriated. Engineer not selected.

Mass., Boston — Plans asphalt and bituminous macadam paving 4,000 ft. various streets, 40 ft. To exceed $25,000. J. J. Murphy, 33 Beacon St., engr.

Mass., Bridgewater—Bd. Selectmen plans new roads, highway and bridge improvements. $25,900 appropriated. Engineer not selected.

Mass., Cohasset—Bd. Selectmen appropriates $44,500 for highway and bridge improvements. Engineer not selected.

Mass., Concord—Bd. Selectmen plans reconstructing roads and bridges here. $67,600 appropriated. Engineer not selected.

Mass., Easthampton—Bd. Selectmen appropriates $42,280 constructing new roads, and $37,000 for highway and bridge improvements. Engineer not selected.

Mass., Hamilton — Bd. Selectmen plans highway and bridge improvements. $30,000. Engineer not selected.

Mass., Hull—Town Bd. Selectmen plans reconstructing and improving various streets. $25,000. Engineer not selected.

Mass., Hyannis — Bd. Selectmen plans reconstructing and repairing Lewis Bay Rd., South Bay and Center Sts. $41,000 bonds voted. Engineer not selected.

Mass., Lexington—Bd. Selectmen plans improving and constructing new highways. $65,500 appropriated. Engineer not selected.

Mass., Marshfield—Bd. Selectmen plans highway and bridge improvements. $46,200 appropriated. Engineer not selected.

Mass., Milford—Voted $57,500 bonds reconstructing and improving various highways. Engineer not selected.

Mass., Rockland — Voted $25,600 bonds rebuilding and improving various streets. Engineer not selected.

Mass., Winchendon—Bd. Selectmen plans highway improvements. $25,000 appropriated.

Mass., Winthrop—Town and State Hy. Dept., Boston, plan widening and reconstructing Revere St. $25,000. W. F. Williams, Dept. Pub. Wks., Boston, comr.

Conn., New Britain—Plans widening and sheet asphalt on concrete paving Myrtle St. from Main to Grove Sts., also South Main St.; sheet asphalt on concrete paving North St. from Main St. to Hartford Ave., and Hartford Ave. from East Main to North Stanley Sts. $70,000. J. D. Williams, city engr.

Conn., Westport — Plans 7.1 mi. bituminous macadam Danbury Rd., Cross Highway, Long Lots Highway. $250,000. J. A. McDonald, c/o State Highway Comn., State House, Hartford, engr.

N. Y., Buffalo—Plans to issue $200,000 bonds widening various streets.

N. J., Monmouth Beach—Monmouth Co. (Freehold) plans paving Riverside Ave., Beach Rd. and Wesley St., here. $90,000. A. O. Johnson, mayor. Engineer not selected.

Pa., Connellsville—Plans election $300,000 bonds widening and surfacing Arch St., etc. T. E. Hoensher, Connellsville, engr.

W. Va., Philippi — Barbour Co. election Mar. 24, $225,000 bonds in Pleasant Dist. T. Hewitt, co. clk.

W. Va., Pineville—Wyoming Co. election Apr. 11, $175,000 bonds for improving Indian Creek and other roads. I. E. Basham, Pineville, engr.

North Carolina — State Hy. Comn., Raleigh, plans grading, etc., 5 mi. State Project 583, Randolph Co. $35,000. C. M. Upham, Raleigh, ch. engr.

N. C., Nashville—Nash Co. plans 50 mi. soil roads in several sections. $200,000. M. S. Davis, Louisburg, engr.

N. C., Statesville — Bd. Comrs. Iredell Co. authorized sale $1,000,000 bonds for road and bridge construction. H. L. Gilbert. chn.

N. C., Wilson—Wilson Co. voted $1,250,000 bonds roads and bridge construction. H. B. Lane, chn. bd. comrs.

Fla., Sarasota—Soon takes bids improving various streets, 25,000 asphalt blocks or equivalent paving, 14,860 lin.ft. 5 x 12 in. concrete curb, and resetting 9,600 ft. curb and gutter. J. R. Brumby, Jr., comr. Pub. Wks.

Fla., Tampa—Hillsborough Co. election Mar. 24, $165,000 bonds, improving 5 mi. Palm River Rd., 18 ft., 2½ in. or more bituminous concrete on 5 in. compacted Florida lime rock base, 4 x 12 in. concrete curb, and concrete bridges. $165,000. A. B. Pimm, Court House, engr.

Ala., Tuscumbia — Making plans paving various streets. $375,000.

Miss., Canton—Madison Co. voted $25,000 bonds, repairing roads and bridges on Pickens Pike and Jeff Davis Highway. Noted Jan. 29.

Miss., Gulfport — Harrison Co. voted $1,500,000 bonds for roads and bridges. Engineer not selected. Noted Feb. 12.

Miss., Jackson—Soon takes bids improving approximately 10 mi. sidewalks, curbing and guttering various streets. M. L. Culley, Jackson, engr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 18 mi. Memphis-Fayette Co. line Rd. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 10 mi. Selma-Hardin Co. line Rd., McNairy Co. J. G. Creveling, highway engr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashvile, making surveys improving 20 mi. Crossville-Roane Co. line Rd., Cumberland Co., 10 mi. Clinton-Cook Creek Rd., Anderson Co., and approximately 15 mi. Wartburg-Scott Co. line Rd., Morgan Co. J. G. Creveling, highway comr.

Tenn., Dyersburg—Dyer Co. and State Dept. Hys. & Pub. Wks., Nashville, having surveys made improving 18 mi. Dyersburg-Obion Co. line Rd. J. G. Creveling, highway comr. Noted Mar. 12.

O., Canton — Stark Co. takes bids in spring improving 2.75 mi. Paris-Maximo Rd., 14 ft. $50,000 or more. A. M. Wise, Canton, co. engr.

O., Columbus—Making plans widening 2,100 ft. Grant Ave., 44 ft., by setting back curb, improving widened portion with brick gutters and resurfacing remainder with asphalt. $40,000. R. H. Simpson, city engr.

O., Niles—City takes bids in spring brick or asphalt paving Wilson Ave. $30,000.

O., Parma—Takes bids in spring stone or cement sidewalks on 13 various streets. To exceed $25,000. Engineer not selected.

O., Warren—Bd. Control soon takes bids improving Highland Blvd. and Woodland Ave. $75,000.

Mich., Detroit—Making plans 3½ in. sheet asphalt on 8 in. concrete paving 2,490 sq. yd. Petoskey Ave., Sect. 1, $12,480, 1,600 sq.yd. Buena Vista Ave. $8,010, 12,850 sq. yd. Flanders Ave. $64,250, 6,220 sq.yd. August Ave. $31,110, 5,800 sq.yd. Lawton Ave., Sect. 4, $29,000, 9,210 sq.yd. Newport Ave. $46,060, 7,900 sq.yd. Mackay Ave. $39,530, 7,640 sq.yd. Burnside Ave. $38,210, 4,730 sq.yd. Evanston Ave. $23,660, 1,950 sq.yd. Kolb Ave. $9,740, 5,860 sq.yd. Manistique Ave. $29,800, 14,930 sq.yd. Three Mile Dr. Sect. 1, $74,650, 10,810 sq.yd. Three Mile Dr., Sect. 2, $54,050, 4,700 sq.yd. Buena Vista Ave., Sect. 2 $23,500, 3,660 sq.yd. Girardin Ave. $18,330, 2,040 sq.yd. Petoskey Ave., Sect. 2 $10,220, 22,100 sq.yd. Six Mile Rd. $110,520, 5,410 sq.yd. Springfield Ave. $27,070, 5,180 sq.yd. Philip Ave., Sect. 1 $25,900, 5,490 sq.yd. Chesterfield Ave. $27,410, 4,560 sq.yd. Idaho Ave. $22,800, 605 sq.yd. Brown Ave. $3,025, 11,050 sq.yd. Jane Ave. $55,270, 8,600 sq.yd. Traverse Ave. $43,190, 9,420 sq.yd. Ironwood Ave. $27,120, 8,790 sq.yd. Kilbourne Ave. $43,970, 3,590 sq.yd. Orangelawn Ave. $17,950, 3,690 sq.yd. Fournier Ave. $18,480, 3,620 sq.yd. Ashland Ave. $18,130, 1,800 sq.yd. Walden Ave. $9,000, 1,030 sq.yd. Indiana Ave. $5,150, 1,030 sq.yd. Kentucky Ave. $5,150, 3,980 sq.yd. Pilgrim Ave. $18,910, 3,830 sq.yd. Riopelle St. $19,170, 8,570 sq. yd. Moran Ave. $42,860, and 3,890 sq.yd. Greeley Ave. $19,490. J. Jerome, city engr.

Ill., Avon — Plans brick paving 12,100 sq.yd. Main St. F. M. Connolly, 432-33 Peoples Trust & Savings Bank Bldg., Galesburg, engr.

Ill., Batavia—Making preliminary plans grading, vibrolithic or rein.-con. surfacing, etc. 21,000 sq.yd. various streets. $100,000. Wells Eng. Co., Geneva, engrs.

Ill., Colchester—Plans brick paving 8,260 sq.yd. Macomb St. F. M. Connolly, 432-33 Peoples Trust & Savings Bank Bldg., Galesburg, engr.

Ill., East St. Louis—See "Sewers."

Wisconsin — State Hy. Comn., Madison, plans bituminous macadam paving 4 mi. Sparta-La Crosse Rd., Project 397-A, La Crosse Co., $100,000; crushed stone surfacing 8.5 mi. Richland Center-Viroqua Rd., Project 239, Richland Co., $168,000; gravel surfacing 2.57 mi. Prentice-Glidden-Mellen-Ashland-White River Hill Rd., Project 405-A, Ashland Co., $70,000, also grading and gravel surfacing Frederic-Grantsburg Rd., Polk Co., $25,000; concrete surfacing Janesville-Evansville-Madison Rd., Projects 388-A, Rock Co., $135,000, and 388-B, Dane Co., $150,000, Rosendale-Ripon Rd., Project 365-B, Fond du Lac Co., $75,000, Kewaunee-Two Rivers Rd., Project 367-A, Kewaunee Co., $100,000, Project located between Manitowoc Co. line north and Trunk Highway 17, Manitowoc Co., $215,000, Green Bay-Oconto-Marinette Rd., Project 392-A, Oconto Co., $75,000; constructing Frederic Rd., Burnett Co., $50,000, Fairchild-Neillsville cut, Clark Co., $100,000, Shawano-Bonduel Rd., Project 345-A, Shawano Co., $150,000, and Project located in Sauk Co., $100,000. J. T. Donaghey, state highway engr.

Ia., Marshalltown—Plans surfacing North 3rd St. from Marion St. to city limits, 2,308 ft. rein.-con. 34 ft. wide, and 3,012 ft. 18 in. wide. $44,550. A. McMahon, city clk.

Ia., Sioux City—Woodbury Co. making plans grading and 12 bridges, etc., on 3.5 mi. road between Liston Twp. and Danbury Rd., $32,000. W. L. Egan, co. aud.

Kan., Erie—Neosho Co. soon takes bids grading, etc., 9.06 mi. road between Chanute and Morehead, 28 ft., Federal Aid Project 308 A. O. T. Reece, Erie, engr.

Kan., Kansas City—Wyandotte Co. plans concrete surfacing 7 mi. Golden Belt Highway from Muncie to Bonner Sts., 18 ft.; and 4.5 mi. Bonner-Piper Rd., from Victory Highway to city limits, 18 ft. $150,000. O. K. Williamson, Court House, engr.

Kan., Kingman — City Clerk takes bids about Apr. 1, grading, concrete, brick, asphaltic concrete or asphalt surfacing 16,000 sq.yd. various streets. C. A. Haskins, 822 Finance Bldg., Kansas City, engr.

Neb., Hebron—Making preliminary plans grading, curbing, brick or concrete paving, etc., 18 blocks Lincoln St. between 1st and 13th Sts. and 4th St. between Rock Island R.R. tracks and Union Ave., etc. $140,000. Grant, Fulton & Letton, 525 South 13th St., Lincoln, engrs.

Streets and Roads (Continued)

S. D., Sioux Falls — Plans paving 10 blocks Prairie Ave. $40,000. W. C. Leyse, city aud.

Mo., Kansas City—Making plans, changing grade and paving 2.16 mi. Washington Park Blvd. from Hardesty Ave. to city limits, 100 ft. W. H. Dunn, City Hall, engr.

Mo., Kansas City — Jackson Co. plans completing grading and paving 1½ mi. Washington Park Blvd. east from city limits, 100 ft. L. Koehler, Courthouse, co. engr.

Mo., St. Louis—Soon takes bids grading, draining and paving with sheet asphalt, Willite or Warrenite 28,560 sq.yd. Kingshighway; Warrenite on concrete paving 4,950 sq.yd. Rosedale St. $100,400. W. W. Horner, 300 City Hall, engr.

Arkansas—State Hy. Dept., Little Rock, soon takes bids grading, Bates type concrete surfacing, etc., 11 mi. Arkansas-Missouri Rd. Impvt. Dist., north of Little Rock, 18 ft. Ford & MacCrea, Gazette Bldg., Little Rock, engrs.

Ark., Little Rock—City Clerk takes bids in May or June, grading hard-surfacing, etc. 14,000 sq.yd. West 4th St. in Dist. 400. $60,900. M. M. Martin, 931 Southern Trust Bldg., atty. for Dist. Noted Jan. 29.

Ark., Philadelphia—Making preliminary plans grading, curbing and concrete, asphaltic concrete or asphalt on concrete surfacing 18 blocks Dist. 1. E. F. Peterson, Texarkana, engr.

Tex., Albany — Shackelford Co. making plans grading and bridging 8.4 mi. State Highway 1-A, Albany-Abilene Rd. $40,070. J. E. Pirie, Albany, co. engr.

Tex., Angleton—Brazoria Co. soon takes bids surfacing 10.88 mi. State Highway 19, Federal Aid Project 367-B, $92,500; and 6.59 mi. State Highway 19, Federal Aid Project 367-A, $52,500, both 18 ft. H. W. Munson, Jr., Angleton, engr.

Tex., Beaumont — Voted $150,000 bonds paving various streets. R. C. Black, city engr. Noted Feb. 29.

Tex., Dallas—Election Apr. 7, $250,000 bonds, paving various streets. E. A. Kingsley, city engr.

Tex., Donna—Voted $35,000 bonds paving various streets. W. Whigham, mayor.

Tex., Midland — Making plans paving various streets. J. Winborne, city secy. Engineer not selected.

Tex., Temple—Election Apr. 6, $26,000 bonds permanent paving various streets. H. J. Graesser, city mgr.

Oklahoma—State Hy. Dept., Oklahoma City, made surveys grading and concrete surfacing 160,000 sq.yd. Bankhead Highway, Stephens Co. $300,000. J. M. Page, highway engr.

Okla., Blackwell — Plans grading, concrete curbing, guttering and vertical fibre brick surfacing 6,480 sq.yd. 2 alleys South 8th and South B Sts. $32,500. W. Ritzhaupt, Blackwell, engr.

Okla., Chandler—Plans sheet asphalt resurfacing 20,000 sq.yd. Manvel Ave. $40,000. D. D. Landsaw, city clk. Engineer and architect not selected.

Okla., Hennessey — Plans grading and concrete surfacing 17,800 sq.yd. Meridian Highway, Main St. $68,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Oklahoma City—Plans widening 8 blocks Robinson St., 5 ft. on each side and sheet asphalt resurfacing entire street from Reno to Central Aves., $35,000. B. M. Hart, City Hall, engr.

Okla., Sapulpa—Plans grading and concrete surfacing 9,600 sq.yd. Cedar and West McKinley Sts. $35,000. F. E. Lawrence, Sapulpa, engr.

Okla., Weleetka—Plans grading, concrete curbing, guttering and gravel surfacing 18,000 sq.yd. Creek, 7th, 9th and 10th Sts. $30,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Wilburton—Postponed opening bids Mar. 2, concrete surfacing 10,450 sq.yd. Main St., Paving Dist. 1. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 19.

Washington—State Hy. Dept., Olympia, plans 44.67 mi. paving, 6 mi. surfacing, 48.9 mi. grading, and 56.2 mi. grading and surfacing various highways throughout state; 12 bridges, one a ½ mi. long, and 3 totaling 1 mi. long, also 1,500 ft. bridge at Vantage Ferry. R. H. Hartley, governor, signed bill providing $14,827,000 for highway work, etc. J. Allen, state highway engr.

Wash., Aberdeen — Making plans 6 in. concrete paving present graveled streets 60 blocks Bway. Hill Dist. $200,000. E. G. Hunt, Aberdeen, engr.

Calif., Berkeley—Plans paving Arlington St. between The Circle and city limits. To exceed $25,000. J. A. Eddy, city engr.

Calif., Chico—Making plans improving various streets, 372,640 sq.ft. 5 in. asphaltic concrete, 16,804 sq.ft. 5 in. concrete paving, 16,430 sq.ft. 4 in. concrete gutters, etc. R. H. Witt, city engr.

Calif., Hermosa Beach—Plans guttering, curbing, sidewalks, and National on 4 in. asphaltic concrete, etc., Hermosa Ave. between 14th and 27th Sts., etc. To exceed $25,000.

Calif., Salinas — Made plans improving Church St., 202,414 sq.ft. grading, 667 tons base rock, 200,157 sq.ft. 2 in. Warrenite bituminous paving, 5,783 lin.ft. concrete curb, and 7,542 sq.ft. concrete gutters; Central Ave., etc., 101,152 sq.ft. grading, 101,152 sq.ft. 2 in. Warrenite bituminous surface, 237 tons base rock, 3,735 lin.ft. concrete curb, 6,207 sq.ft. concrete gutters. H. Cozzens, city engr.

Calif., San Jose—Santa Clara Co. made plans paving Alviso and Milpitas Rds., 157,320 sq.ft. macadam and 22,680 sq.ft. asphaltic concrete. R. Chandler, San Jose, co. surv.

Calif., Taft — Made plans improving Kern St., 151,700 sq.ft. 1.5 in. Warrenite-bituminous on 3.5 in. asphaltic concrete paving, 22,000 sq.ft. sidewalks, 4,450 lin.ft. concrete curb and gutter, etc.; 3rd St., 25,900 sq.ft. paving, 7,000 sq.ft. sidewalks, 1,400 lin.ft. curb and gutter, etc.; and North St., 17,600 sq.ft. 1.5 in. Warrenite-bituminous on 3.5 in. asphaltic concrete paving 800 lin.ft. curb and gutter, etc. O. R. Boyd, city engr.

Ont., Amherstburg — Plans asphalt resurfacing Sandwich St. $30,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Barrie—Takes bids about May 1, cement paving Essa, Blake and Burton Aves., prices wanted on materials. A. Craig, chn. com.

BIDS DESIRED

R. I., East Providence (Providence P. O.)—Mar. 23, by Council, Town Hall, bituminous macadam paving and curbing, John, James, Purchase and 5th Sts., and portion of Roger Williams Ave. Noted Feb. 26.

R. I., Central Falls—Mar. 30, at office of Board Street, Water & Sewer Commissioners, City Hall, granite block on concrete paving about 7,000 sq.yd., Broad St.; adv. E. N.-R. Mar. 19.

Mass., Roxbury (Boston P. O.)—Mar. 24, by Dept. Pub. Wks., City Hall, Boston, recut granite block paving Tremont St. from Terrace St. to Huntington Ave., here. $25,000. J. A. Rourke, comr.

New York—Apr. 3, by A. W. Brandt, comr. Highways, Albany, improving highway in Cattaraugus Co.; also reconstructing highways in Allegany, Cattaraugus, Cayuga, Chautauqua, Clinton, Erie, Genesee, Jefferson, Lewis, Livingston, Madison, Monroe, Niagara, Ontario, Rensselaer and Tompkins Counties, for State Dept. Pub. Wks., Albany, adv. E. N.-R. Mar. 19.

N. Y., Long Island City — Mar. 23, by M. E. Connolly, boro. pres., Queens Sub-

STATION FINISH—BROOKLYN, N. Y.

Following are lowest three bids opened by Bd. Transportation, Municipal Bldg., New York City, Feb. 27, for station finish for 95th St. Station, Rapid Transit R.R., Route No. 111-B, Sect. No. 3, (A) Suffolk Building Corp., 7 East 42nd St., New York City (awarded contract); (B) Werner-Mitchell Co., Inc., 1 De Kalb Ave.; (C) Norman A. Deiser, 280 Madison Ave., New York City. The unit bids are as follows:

		A	B	C
5,500 sq.ft. white glazed tile 3 x 6 in.				
	(a) straight	$1.15	$1.45	$1.30
100 sq.ft.	(c) 2½ in. radius (combination)	2.50	2.90	2.75
10 sq.ft.	(d) 20 in. radius (curved and combination)	1.15	3.00	2.75
19,000 sq.ft. white glazed tile 3 x 6 and 6 x 6 in.				
	(a) straight	1.00	1.35	1.30
10 sq.ft.	(b) 1 in. radius (combination)	1.00	2.90	2.75
600 sq.ft.	(c) 2½ in. radius (combination)	2.50	2.85	2.75
20 sq.ft.	(d) 20 in. radius (curved and combination)	1.00	2.85	2.75
10 lin.ft. white glazed tile bead (a) 1 in. radius		.25	1.20	.20
7,700 sq.ft. weather-proof vitreous or semi-vitreous colored tile hand-made				
	(a) straight	1.50	2.30	2.20
250 sq.ft.	(c) 2½ in. radius (combination)	2.00	3.80	3.50
40 sq.ft.	(d) 20 in. radius (curved and combination)	1.50	3.80	3.50
4,000 sq.ft. Mosaic and tile bands, in colors		2.75	3.25	3.00
170 sq.ft. Mosaic and tile tablets in colors indicating names of stations		3.00	4.45	5.00
30 sq.ft. Mosaic and tile tablets in colors indicating train destinations and toilets		3.00	4.45	5.00
900 sq.yd. plastering on flat surfaces except on change booths				
	(a) on brick or hollow tile	1.00	1.25	1.50
20 sq.yd.	(b) on concrete	1.00	1.70	1.50
10 sq.yd.	(c) on metal lath	1.00	1.75	2.20
350 sq.ft. cement floors, wainscots, bases, etc.				
	(a) wainscots or bases	.20	.30	.35
250 sq.ft.	(cc) special 3 in. floor finish as required sect. No. 87	.25	.30	.35
10 sq.ft.	(d) finish on concrete brick or hollow tile	.50	.35	.35
400 sq.ft.	(f) 1 in. floor finish	.15	.16	.12
40,000 sq.ft.	(h) 3 in. floor finish	.20	.19	.20
10 cu.yd. concrete work (b) concrete foundation		30.00	17.00	15.00
500 cu.ft.	(c) rein. conc. (other than copings, stairs and landings)	2.00	.95	1.50
20 cu.ft.	(d) protective concrete for columns, beams and girders	5.00	.85	1.10
110 cu.ft.	(i) concrete copings and landings at street level	1.50	1.25	2.75
60 cu.ft.	(j) concrete copings other than at street level	1.25	1.25	2.75
12 cu.ft. cutting openings in concrete walls of circuit breaker room, sec. No. 62.2		5.00	2.00	2.50
680 lin.ft. of tread concrete stairs, stairway landings, etc.				
	(a) self-supporting stairs	1.75	2.78	1.80
1,500 cu.ft.	(c) supported stairs	1.25	1.60	1.25
700 sq.ft.	(d) supported stairway landings	.25	.42	.30
400 lin.ft.	(g) cement bases or wall strings	.25	.65	.33
230 lin.ft.	(h) cement finish on exposed sides of stairs and landings	.20	.30	.33
1,200 sq.ft. non-slip tile treads		1.75	1.50	2.00
2,500 cu.ft. brick masonry (except in walls of change booths) (c) common brick		1.50	1.25	1.25
6,500 cu ft. hollow T.C. tile masonry (except in walls of change booths)				
	(b) 3 in. hollow tile	1.00	1.00	1.21
2,500 cu.ft.	(c) 4 in. hollow tile	1.50	.85	1.10
300 weepholes in hollow tile sidewalls		.50	.20	.25
50 galvanized strap anchors		2.00	.90	.50
10 sq.yd. metal lath (except in ceilings of change booths) (a) without furring		1.25	.80	1.25
2 masonry change booths except roofs (l) type "MPb"		1,875.00	1,150.00	1,300.00
2 metal toilet stall partitions and access				
	(a) partitions in men's toilet	100.00	75.00	60.00
2	(b) partitions in women's toilet	100.00	81.00	65.00
1	(c) posts	25.00	18.00	30.00
2 steel doors (c) type "Ja"		300.00	275.00	310.00
2 pair kalamein doors, except for change booths				
	(a) type "A"	150.00	74.50	110.00
10	(d) type "D"	80.00	63.50	70.00
1	(dd) type "Da"	80.00	57.50	55.00
1	(e) type "E"	80.00	45.50	60.00
2	(g) type "G"	75.00	95.00	60.00
5	(m) type "M"	80.00	62.60	60.00
1	(p) type "P"	50.00	30.00	50.00
200 sq.ft. kalamein windows, except for change booths				
	(a) double hung	4.00	3.50	3.00
15 sq.ft.	(d) windows with stationary sash	4.00	3.00	3.00
40 sq.ft.	(g) windows with hinged sash	4.00	3.25	3.00
3 additional hardware	(a) door checks	10.00	8.00	8.00
20	(d) swing door stops (except for toilet stall doors)	4.75	4.75	4.75
2	(e) rubber covered chains	4.00	3.75	3.75

		A	B	C
3	(d) push plates	7.00	6.00	6.00
3	(e) door pulls	10.00	7.75	8.00
3 pair	(f) kick plates	20.00	17.25	18.00
3	(i) heavy mortise dead locks, complete	5.75	5.75	5.50
6	(j) heavy mortise locks, complete	20.00	13.50	13.50
3	(k) heavy mortise knobs latches, complete	15.00	11.75	12.00
1	(n) pin tumbler cabinet locks, combined	5.00	4.25	4.00
5	(o) hasps and staples or pair of padlock eyes	1.00	.75	.70
	(u) heavy mortise cylinder lock with dead bolt	25.00	27.50	26.50
8	(y) coat hooks	1.00	.50	.50
230 lin.ft.	(a) low straight type "FS" including posts	9.50	5.75	9.00
4,200 sq.ft.	(c) high straight type "GS" including posts	1.35	1.15	1.20
100 lin.ft.	(e) bevel type "LS" including posts	10.00	6.50	9.50
100 sq.ft.	(f) grille type "BS" including posts	2.55	2.20	2.40
120 lin.ft.	(g) pipe	4.00	3.65	3.50
6 lin.ft. gates and appurtenances				
	(b) high sliding gates	18.00	19.50	18.00
3 lin.ft.	(c) folding gates	15.00	16.50	14.50
5	(e) exit turnstiles	450.00	475.00	450.00
1	(a) additional high posts	15.00	15.00	18.00
1 per gate opening	(r) steel gate posts, cross frame and oppurtenances	60.00	61.00	50.00
300 sq.ft. signs, etc.	(g) enameled sign plates	1.50	1.50	1.75
9	(mm) frames for station name signs	40.00	32.00	30.00
110 lin.ft. street railings	(b) type "Ki"	25.00	23.00	22.00
80 lin.f.t of tread street ladders, platforms, etc.				
	(a) steel ladders between stations	5.00	3.00	3.00
1,000 lb.	(e) steel shapes and lintels	.20	.10	.12
100 lb.	(f) miscellaneous steel shapes	.20	.12	.12
400 lb.	(j) steel roads and bars built in concrete	.30	.06	.06
20 lin.ft.	(k) steel ladders with rungs	5.00	3.75	5.50
100 lb. miscellaneous iron castings etc.		.20	.22	.25
620 lin.ft. oak hand rails		1.50	2.00	2.00
1,100 lin.ft. platform edge construction complete		.50	.32	.40
Rough plumbing work complete	(a) 95 St. station (lump sum)	3,750.00	1,600.00	4,230.00
	(b) enclosures between stations (lump sum)	2,750.00	1,500.00	4,063.00
10 floor drainage system, sec. No. 174.1	(b) install. C.I. covers, inlets	5.00	11.00	10.00
10	(c) install cleanout boxes	5.00	11.00	10.00
8 plumbing fixtures	(a) water closet bowls	150.00	92.00	60.00
2	(b) lavatories in stations	100.00	83.00	50.00
7	(d) urinals	175.00	119.00	60.00
2	(g) slop sinks in closets	75.00	86.00	50.00
3	(k) wash sinks	150.00	92.00	60.00
6	(a) floor push button boxes	100.00	33.00	25.00
150 sq.ft. structural slate	(m) wainscoting on walls	1.25	1.68	1.35
130 sq.ft.	(h) pipe chamber partitions	1.25	1.68	1.35
150 sq.ft.	(p) stall partitions	1.25	2.00	1.65
24 lin.ft.	(r) curved corners and angles	2.50	2.60	2.00
18 sq.ft.	(t) stiles and caps	1.50	1.75	1.75
1,250 lb. steel angles, plates or other sections for supporting slate		.20	.14	.16
10 c.i. or steel register faces, frames, etc.	(a) register faces and frames	15.00	12.00	12.00
330 lin.ft. l.c. or steel elect. conduits, except in lamp posts, signs and change booths	(a) ¾ in.	.30	.23	.45
1,350 lin.ft.	(b) 1 in.	.50	.30	.52
330 lin.ft.	(c) 1¼ in.	.75	.39	.72
200 lin.ft.	(d) 2 in.	1.00	.50	.80
80 lin.ft.	(i) 3½ in.	2.00	1.50	1.75
7 c.i. outlet boxes (incl. covers) except where incl. in payment for booths		1.25	2.50	1.75
2 c.i. pull boxes (incl. covers) except where incl. in payment for booths	(b) 12 x 12 x 6 in.	15.00	13.00	16.00
1	(e) 12 x 6 x 4 in. with hinged covers and locks	7.00	7.10	12.00
28	(f) 6 x 6 x 4 in.	5.00	3.65	7.00
7	(i) 8 x 8 x 4 in.	6.00	6.00	8.50
11	(j) 8 x 8 x 6 in.	10.00	7.10	10.50
6 cast iron heater boxes (including register faces)		50.00	40.00	25.00
1 steel panel board boxes	(d) 32 x 5 11/16 in. from 49 to 60 in. long inclusive	50.00	63.00	55.00
3	(e) 32 x 5 11/16 in from 37 to 48 in. long inclusive	50.00	54.00	50.00
4	(f) 32 x 5 11/16 in. from 24 to 36 in. long inclusive	50.00	48.00	40.00
4,000 sq.ft. painting iron, steel, plaster, etc.				
	(a) 2 coat work on iron or steel	.06	.05	.05
18,000 sq.ft.	(b) 3 coat work on iron or steel	.07	.06	.06
70,000 sq.ft.	(c) 2 coat work on concrete cement and plaster	.06	.05	.05
750	(d) painting letters and numerals	.15	.12	.10
30,000 sq.ft.	(i) each coat in addition to 2 or 3 coat work	.01	.02	.005
Shelf and closets under windows between signal tower and rep't. R.M. sec. No. 115 (lump sum)		200.00	123.00	100.00
Extended totals		$127,679	$132,445	$136,858

Streets and Roads (Continued)

way Bldg., grading and curbing Charlotte Pl., 86th and 101st Sts., Roosevelt and Cornaga Aves.

N. Y., New York—Mar. 26, by Park Bd., 64th St. and 5th Ave., repaving sidewalks at park at Southern Blvd. and approach to Willis Ave. Bridge.

N. Y., New York—Mar. 26, by H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., bituminous concrete paving East 207th St.; sheet asphalt paving Lawrence, Monterey and Walton Aves.; grading, etc., DeWitt Pl., Gouverneur and Wilson Aves.

New Jersey—Apr. 6, by State Hy. Dept., Trenton, rein.-con. paving Route 15, Sect. 8, Cape May Co. A. L. Grover; adv. E. N.-R. Mar. 19.

N. J., New Brunswick—Mar. 24, by City Comn., sheet asphalt paving, Division, Prosper, Scott and Stone Sts. A. Atkinson, New Brunswick, engr.

N. J., North Beach Haven—Mar. 27, by Long Beach Twp. Com., graveling 20,292 sq.yd. roadway on 13th St., Bennett Beach, 8 streets in Arlington, 3 streets in Ship Bottom, 2 streets in Beach Haven and 1 street in Beach Haven Terrace, all Ocean Co. W. M. Petzelt, North Beach Haven, twp. clk.

N. J., Pennington—Mar. 31, by Bd. Freeholders Mercer Co. (Trenton), concrete paving 20,345 sq.yds. Main St., here. H. F. Harris, Court House, Trenton, engr.

N. J., Quakertown—Apr. 4, by Franklin Twp. Com., macadam paving 3,182 sq.yd. road. G. Davis, Whitehouse Sta., engr.

N. J., Trenton—Mar. 31, by Bd. Freeholders Mercer Co., tars for surface treatment and penetration work on 29 mi. various roads. H. H. Harris, Court House, engr.; adv. E. N.-R. Mar. 19.

Pa., Oakmont—Mar. 23, by City Council, grading 8th, 6th, and Edgewood Aves.; repaving Washington Ave., and paving 5th St., Oakmont, Woodland, Virginia and Maryland Aves. Work involves 20,000 sq.yd. vitr. brick, 10,000 lin.ft. con. curbing, 24,000 cu.yd. grading. Douglas & McKnight, 912 Columbia Bank Bldg., Pittsburgh, engrs.

Md., Baltimore—Mar. 26, by Bd. Awards, grading and concrete paving alleys in Contr. 113. B. L. Crozier, City Hall, highway engr.

W. Va., Beckley—Mar. 25, at office L. M. Dorsey, Raleigh Co. Rd. Superv., Room 206 Bair Bldg., grading, etc., 3 mi. Besoco-Princewick Rd., and 1,400 ft. road at Jarrolds Valley; and concrete, stone and steel bridge across Marsh Fork.

W. Va., Lewisburg—Apr. 11, by Greenbrier Co. Court, bituminous macadam surfacing 5 mi. Laurel Creek-Quinwood Rd., Meadow Bluff Dist. H. L. Handley, co. engr.; adv. E. N.-R. Mar. 19.

Alabama—Mar. 25, by State Hy. Dept., Montgomery, gravel surfacing 3 mi. Troy-Orion Highway, 18 ft., Pike Co. $95,000. W. S. Keller, highway engr.

Miss., Coffeeville — Mar. 31, by Bd. Supvrs. Yalobusha Co. at office chancery clerk, grading and gravel surfacing 8.756 mi. Federal Aid Project 161-C, 18 ft. H. C. Dietzer, Jackson, engr.

Miss., Sardis—Apr. 6, by Bd. Supervs. Panola Co., grading, etc., 3.117 mi. Federal Aid Project 55, 18 ft. H. C. Dietzer, Jackson, engr.

Miss., Water Valley — Mar. 31, by Bd. Supervs. Yalobusha Co., grading, bridging, gravel surfacing, etc., 8.8 mi. Federal Aid Highway, 18 ft. $100,000. H. C. Dietzer, Jackson, engr.

Louisiana—Mar. 31, by State Hy. Dept., Reymond Bldg., Baton Rouge, constructing 3.75 mi. Burnside-Hope Villa Highway, State Project 130 A, Ascension Parish. W. B. Roberts, ch. engr.

Louisiana—Apr. 2, by State Hy. Dept., Reymond Bldg., Baton Rouge, graveling State Project 351 C, St. Francisville-Jackson Highway, West Feliciana Parish. W. B. Roberts, ch. engr.

Tennessee—Mar. 27, by State Dept. Hys. & Pub. Wks., Nashville, **(F. A. P. means Federal Aid Project, and S. A. P. State Aid Project)**, grading and waterbound macadam surfacing and bridging 6.94 mi. Rogersville-Pressmens Home Rd., S. A. P. 176, Hawkins Co.; concrete surfacing 9.41 mi. Milan-Madison Co. line Rd., S. A. P. 167-B, Gibson Co.; grading and rock asphalt on crushed stone surfacing 0.91 mi. Gallatin-Davis Co. line Rd., S. A. P. 194, Sumner Co.; concrete or asphaltic concrete on concrete surfacing 5.23 mi. Lenoir City-Knox Co. line Rd., F. A. P. 207, Loudon Co.; grading and gravel surfacing 8.98 mi. Sta. 399-Savannah Rd., S. A. P. 187-B, Hardin Co.; grading, etc., 14.75 mi. Milan-Weakley Co. line Rd., S. A. P. 19-3, Gibson Co., 12.56 mi. Benton-Georgia State line Rd., S. A. P. 192, Polk Co., incl. 2 concrete bridges over 20 ft. span, 14 mi. Helenwood-Kentucky State Line Rd., S. A. P. 191, Scott Co., incl. 3 concrete bridges over 20 ft. span. J. G. Creveling, highway comr. Noted Nov. 13, Dec. 5 and 12.

O., Canton — Mar. 24, by Bd. Control, improving 22nd St. N. W. $35,000, Ross Ave. N. E. $25,000, and Garfield Ave. S. W. $35,000-$40,000; asphalt paving 0.75 mi. Plain Ave. N. E. $40,000, and 15th St. S. W. $35,000; brick paving Cleveland Ave. N. W. $35,000, Belden Ave. N. E. and S. E. $50,000. W. E. Sarver, City Hall, engr.

O., Cleveland—Mar. 25, by City, grading, paving and curbing Bancroft, Diamond, Othello and Woodworth Aves., Penhurst, and Whitcomb Rds., East 113th, 147th and 156th, West 22nd, 50th, 117th, 136th and 137th Sts., West 22nd Place. R. Hoffman, City Hall, engr.

O., Lisbon — Mar. 25, by Comrs. Columbiana Co., grading and concrete paving East Palestine-Negley Rd., $47,112. L. C. Kirk, Court House, engr. Noted Sept. 25.

O., Millersburg—Mar. 30, by S. Franks, Jr., village clk., City Hall, grading, paving, curbing, storm and sanitary sewers in various streets. Barstow & McCurdy, 321 Ohio Bldg., Akron, consult. engrs.; adv. E. N.-R. Mar. 19.

O., Shadyside—Mar. 25, by City Council, vitr. brick paving 10 blocks West 40th, 41st and 44th Sts. $60,000. H. Althar, Bellair, engr.

Michigan—Mar. 24, by State Hy. Dept. at office Comrs. Kent Co., Grand Rapids, grading and gravel surfacing 2.602 mi. Bostwick Lake-Canonsburg Rd., 23,739 cu.yd. excav., 25,100 sq.yd. gravel, also constructing 24 ft. T-beam bridge on same. G. C. Dillman, Lansing, ch. engr.

Michigan—Mar. 26, by State Hy. Dept. at office Comrs. Genesee Co., Flint, grading and gravel surfacing 3.997 mi. Duffield and Bay Rds., 3.026 mi. Coldwater Rd., 3.543 mi. Byron and Bristol Rds. J. Dennis, Flint, engr.

Michigan—Mar. 27, by State Hy. Dept. at office Comrs. Ingham Co., Mason, grading and gravel surfacing 3.401 mi. Meredian Project 4 and 5, 2.501 mi. Williamston Center Rd. 3, 2.003 mi. Aurileus Project 1, Homer Project 2, and 2 mi. Game Farm Rd. 1. O. K. Franklin, Mason, engr.

Michigan—Mar. 31, by State Hy. Dept. at office Comrs. Eaton Co., Charlotte, grading and concrete paving 6.288 mi. Federal Aid Project 100 D, 67,262 sq.yd., 7 in standard concrete, 39,251 cu.yd. excav., etc. G. C. Dillman, Lansing, ch. engr.

Michigan—Apr. 2, by State Hy. Dept. at office Comrs. St. Clair Co., Port Huron, concrete paving 3.402 mi. State Trunk Line Rd. 27-15 B, also 6.961 mi. State Trunk Line Rd. 27-21 (assessment Dist. Rd. 1106). G. C. Dillman, ch. engr.

Ill., Galesburg—Mar. 23, by Bd. Local Impvts., grading, curbing, guttering and vitr. brick surfacing 6,060 sq.yd. West Brooks St. A. L. Richey, City Hall, engr.

Wis., Elkhorn—Mar. 24, by H. J. Peters, hy. comr., Walworth Co., improving 4 mi.

Streets and Roads (Continued)

Lake Geneva-Williams Bay Rd., 21,772 cu.yd. earth, 500 cu.yd. loose and 100 cu.yd. solid rock excav., 9,630 ft. concrete curb and gutter, 36,660 sq.yd. 18 in. and 9,500 sq.yd. 27 in. concrete paving, 5,100 lbs. steel and 9,500 sq.yd. mesh reinforcing, etc., 18 ft. wide. State Hy. Comn., Division office 444 Milwaukee St. Milwaukee, engrs. Noted Nov. 27.

Wis., Janesville—Mar. 26, by Comr. Pub. Wks., 104,000 sq.yd. one course rein.-con. paving, 30,700 cu.yd. excav., 17,300 ft. combination concrete curb and gutter, etc., 24 streets. C. V. Kerch, City Hall, engr.

Wis., Kenosha—Mar. 26, by J. Herzog, highway comr. Kenosha Co., improving Silver Lake-Twin Lakes Rd., 95,885 sq.yd. concrete surfacing, 51,536 cu.yd. earth and 500 cu.yd. loose rock excav., 12,433 lbs. reinforcing in pavement, 28,700 bbls. cement in place, 1,546 ft. type A guard rail, etc., 18 ft. wide. St. Hy. Comn., Madison, engrs. Noted Feb. 19.

La., Bastrop—Mar. 24, by Police Jury Morehouse Co., grading and surfacing 19.2 mi. various roads, also furnishing 8,000 cu.yd. gravel, 3,786 rods field fence, 58,000 ft. bridge lumber, etc. J. L. White, Bastrop, engr.

Ia., Cedar Rapids—Country Club Land Co., L. J. Duflinger, Cedar Rapids Trust & Savings Bank, taking bids grading, curbing and rein.-con. surfacing approximately 25,000 sq.yd. various streets. M. Tschirgi & Sons, Amer. Trust Bldg., engrs.

Ia., Marion—Apr. 14, by G. A. Senninger, aud. Linn Co., grading, etc. 6.933 mi. Federal Aid Project 225, 138,428 cu.yd. excav., 26,479 ft. 6 and 8 in. tile drain pipe, and 710 ft. 15- to 24-in. culvert pipe. R. W. Gearhart, Marion, engr.

Ia., Ottumwa—Mar. 23, by M. L. Holman, city clk., paving about 10,700 sq.yd. various streets. $35,000. Noted Mar. 5.

South Dakota — Mar. 24, by State Hy. Dept., Pierre, **(F. A. P. means Federal Aid Project)**, grading 12.67 mi. road from Belvidere to East County line, F. A. P. 185, Jackson Co., 110,842 cu.yd. common excav., etc., 11.03 mi. road from West Co. line to Barnard, F. A. P. 171 D, Brown Co., 82,275 cu.yd. common excav., etc., 14.11 mi. road from West Co. line to Yankton, F. A. P. 178 C, Yankton Co., 102,995 cu.yd. common excav., etc.; one 48 ft. concrete viaduct on F. A. P. 185 B, Jackson Co., 9,960 lb. reinforcing and 33,675 lb. structural steel, etc. T. Soliglad, acting highway engr.

Wyoming—Mar. 27, by State Hy. Comn., Cheyenne, **(S. A. P. means State Aid Project and F. A. P. Federal Aid Project)**, widening approximately 0.5 mi. Cody-Park Rd., S. A. P. 595, Cody Co., also crushed rock surfacing 9,000 cu.yd. Thermopolis-Shoshone Rd., S. A. P. 118 C and D, Hot Springs Co., $32,000, R. L. Silver, Basin, engr.; crushed rock surfacing 32.8 mi. Rawlins-Casper Rd., F. A. P. 64-A, Carbon Co., $176,000, G. W. Marks, Rawlins, engr.; crushed rock surfacing, etc., 3,000 cu.yd. highway west of Douglas, S. A. P. 597, Converse Co., and drainage structure on Rawlins-Casper Rd., S. A. P. 598, Natrona Co., $25,000, C. H. Bowman, Casper, engr.; grading, surfacing, etc., 13 mi. Cheyenne-Wheatland Rd., F. A. P. 175-B, Laramie Co., $132,000, grading, etc., 9.8 mi. Lander-Rawlins Rd., F. A. P. 162-B, Fremont Co., $56,000, Z. E. Sevison, Cheyenne, engr.; also grading, surfacing, etc., 1 mi. S. A. P. 599, 600, 601 and 602, Sheridan and Albany Counties, 270 ft. corrugated iron culverts, 700 cu.yd. open ditch, 3,700 ft. tile drain, $25,000, 4.9 mi. Sheridan-Buffalo Rd., F. A. P. 175-B, Johnson Co., $36,000, C. R. Wood, Sheridan, engr.; grading, bridging, etc., Sage-Randolph Rd., S. A. P. 576, Lincoln Co., $25,000, R. J. Templeton, Rock Springs, engr.

Missouri—Mar. 28, by State Hy. Dept., Jefferson City, grading 115.799 mi. roads in Atchison, Lafayette, New Madrid, Dallas, Boone, Platte, Mercer, Stone, Grundy, Andrew, St. Francois, Jefferson, Texas, Greene, Jasper, Randolph, Wright and Vernon Counties; 16 ft. gravel surfacing 29.328 mi. roads in Barry, Perry Lincoln, Christian, St. Genevieve and Gasconade Counties; 18 ft. concrete surfacing 34.857 mi. Jasper, Greene, Boone, Mercer and Lafayette Counties; 18 ft. brick on sledged stone surfacing 12.504 mi. roads in Randolph Co.; 12 ft. broken stone base surfacing 10.715 mi. Ripley and Butler Counties; 12 ft. gravel surfacing 10.714 mi. Ripley and Butler Counties; 18 ft. brick on concrete surfacing 7.51 mi. road in Randolph Co.; 9 ft. brick on concrete surfacing 9.988 mi. road in Randolph Co.; 9 ft. concrete surfacing 41.225 mi. roads in Randolph, Mercer, Atchison and Grundy Counties; 18 ft. gravel surfacing 29.795 mi. roads in Calloway, Greene, Vernon and Randolph Counties; 9 ft. brick on concrete surfacing 15.02 mi. road in Randolph Co.; 18 ft. rock asphalt surfacing 9.277 mi. road in Greene Co.; 18 ft. asphaltic concrete surfacing 2.273 mi. road in Greene Co.; 9 ft. oncrete and 7 ft. gravel surfacing 6.238 mi. road in New Madrid Co.; 18 ft. Amesite surfacing 5.775 mi. road in Greene Co.; 18 ft. brick surfacing 4.015 mi. road in Vernon Co.; 18 ft. brick on concrete surfacing 4.994 mi. road in Randolph Co. B. H. Piepmeier, ch. engr.

Mo., Salisbury—Mar. 25, by A. Gooding, city clk. grading, curbing and concrete paving 8,675 sq.yd. various streets. W. B. Rollins & Co., 521 Railway Exch., Kansas City, engrs.

Ark., Arkadelphia—Apr. 9, by Bd. Comrs. Paving Impvt. Dist. 2, c/o E. M. Hall, secy., paving various streets, incl. 3,900 ft. clay pipe sewers, etc. E. F. Peterson, Texarkana, engr.; adv. E. N.-R. Mar. 19.

Tex., Albany—Mar. 31, J. E. Pirie, engr. Shackelford Co., grading and bridging 12.71 mi. State Highway 1, Revised Federal Aid Project 6. $75,000. Noted Feb. 26.

Nevada—Mar. 25, by State Hy. Dept., Carson City, constructing 25.30 mi. road from Winnemucca to Stone House, etc., Federal Aid Projects 76 C, 82 B, C and D, Humboldt Co., 122,900 cu.yd. excav., 34,410 sta.yd. overhaul, 24.29 mi. prepare subgrade and shoulders, 33,260 cu.yd. load and screen gravel, 77,900 yd. mi. haul and 32,760 cu.yd. spread gravel, etc. G. W. Borden, highway engr.

Nevada—Apr. 1, by State Hy. Comn., Carson City, constructing 10.24 mi. highway between Westgate and Eastgate Route 2, Sect. E, Churchill Co., 50,500 cu.yd. excav., 1,924 sta.yd. overhaul, 10.24 mi. prepare subgrade and shoulders, 12,200 cu.yd. load and screen gravel, 23,250 yd. mi. haul and 11,700 sq.yd. spread gravel, etc. G. W. Borden, St. highway comr.

Calif., San Diego — Mar. 30, by A. H. Wright, city clk., 5 in. concrete paving, etc. 252,268 sq.ft. National Ave. F. A. Rhodes, city engr. Noted Feb. 19.

Quebec—Mar. 27, by J. L. Boulanger, deputy minister highways, Quebec, maintenance roads for 5 years, incl. 20.5 mi. gravel, 12 mi. oil macadam and 0.38 mi. concrete on La Prairie-Rouses Point Highway; 64 mi. gravel on Montreal-Sherbrooke Highway; 15 mi. gravel on St. Hyacinthe-Rougemount Highway; also 76 mi. gravel, 7 mi. macadam and 1 mi. bituminous macadam on Beauce-Sherbrooke Highway. A. Fraser, ch. engr.

Quebec—Mar. 31, by J. L. Boulanger, deputy minister highways, Quebec, applying 1,030,364 ft. liquid bituminous on various roads. A. Fraser, Quebec, ch. engr.

Ont., Toronto—Mar. 21, by R. W. Philips, secy. Toronto & York Rd. Comn., 57 Adelaide St. E., 4 mi. waterbound macadam and 4 mi. penetration macadam on roads in York Co. $140,000. E. A. James, 57 Adelaide St. E., engr.

BIDS RECEIVED

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., from Interboro Asphalt Co., 2306 Creston Ave., bituminous concrete paving Jerome Ave. $23,926, sheet asphalt paving College Ave. $15,443; from Gaffney Constr. Co., 50 East 42nd St., sheet asphalt paving Mosholu Parkway, $87,983, from Asphalt Constr. Co., 208 Bway., Townsend Ave. $79,756; from Leonard Paving Co., Woolworth Bldg., granite block paving Jerome Ave. $110,386, from J. Meehan & Son, 74 Cortlandt St., Boston Rd. $184,244. Noted Mar. 5.

N. Y., New York—J. Miller, pres. Manhattan Boro., granite block repaving 1st Ave. from J. Meehan & Son, 74 Cortlandt St., $158,385, 3rd Ave. from C. Helbock Co., 633 Wales Ave., $228,939, sheet asphalt repaving 32nd St. from Uvale Asphalt Paving Co., 1 Bway., $24,759, 41st and 23rd Sts., from W. J. Fitzgerald, 547 West 45th St. $24,607 and $29,828 respectively, 7th Ave. from Brusstar Constr. Co., Harlem River and 150th St. $73,033. Noted Mar. 12.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro., Boro. Hall, granite block repaving Bway., from Richmond Paving Co., 48 Hylan Blvd., Rosebank, $19,239. Noted Mar. 12.

New Jersey—State Hy. Dept., Trenton, constructing Route 11, Sect. 10, Washington Ave., Nutley, Essex Co., from Standard Bitulithic Co., 50 Church St., New York City, $55,886; Route 7, Sect. 4, road from Colts Neck Rd. to Jerseyville, Colts Neck, Monmouth Co., from W. Eisenberg, Smith-Austermuhs Bldg., Camden, $143,996. Noted Feb. 19.

N. J., Princeton—Bd. Freeholders Mercer Co. (Trenton), concrete and sheet asphalt paving Harrison St., here, from Union Paving Co., 30th and Locust Sts., Phila., Pa., $57,561.

Pennsylvania—State Hy. Comn., Harrisburg, Mar. 13, **(R means Route and A means Application)** one course rein.-con. paving R 265-4, A 3332, Lawrence Co., from H. P. Streicher & Co., Inc., 319 Terminal Blg., Toledo, O., $218,682; A 692 and 2790, Dauphin Co., from Frey Constr. Co., Inc., 50 West Philadelphia St., York, $85,486; R 302, Westmoreland Co., from Edwards Dunn Co., Inc., 202 Coulter Bldg., Greensburg, $50,098; R 181, A 3003, Westmoreland Co., from L. R. Mathieu & Sons, 1824 Union Ave., Altoona, $152,287; A 2044, Clearfield Co., from J. Wiesner, 372 Chestnut St., St. Marys, $81,295; R 271, A 3286 and 3287 Crawford Co., from Connell, Laub & Bracht, 51 Woodcrest Ave., Dayton, O., $322,498; R 302, Westmoreland Co., from Penn Contg. Co., 127 East Fairview Ave., Connellsville, $64,065; R 247, Allegheny Co., from Meredith & McVaugh, 220 Horton Ave., Detroit, Mich., $145,070; R 348, A 3002 Westmoreland Co., from Cooper Constr. Co., Inc., Clymer, $247,699; R 7, Pike Co., from Snead & Burgess, Fork Union, Va., $135,856; R 89, A 2977 and 3271, Warren Co., from Forness & Tower, Olean, N. Y., $234,239; R 335, Wayne Co., from C. W. Blakeslee & Sons, 58 Waverly St., New Haven, Conn., $532,906; R 211, McKean Co., from F. D. Ross, 74 High St., Bradford, $270,216; R 70, Allegheny Co., from T. W. Munroe & Co., DuBois, $51,075; R 71, Armstrong Co., from C. Winters Constr. Co. Renfrew, $172,262; and R 275, Perry Co., from S. J. Groves & Sons Co., Montreal and Cleveland Aves., Minneapolis, Minn., $379,363. Noted Feb. 26.

Md., Baltimore—Bd. Awards, 11,940 sq. yd. sheet asphalt on concrete Contr. 269-OANA, from P. Flanigan & Son, Harford Rd., $55,095, and 5,910 sq.yd. cement concrete on Contr. 270-OCOANA, from G. Long Constr. Co., 1st Ave. and 1st St., $14,432. Noted Mar. 5.

O., New Philadelphia—Bd. Control, Mar. 1, repaving High St. and Bway., brick, from LeRoy Springer, New Philadelphia, $84,749. Engrs. est. $85,000. Noted Feb. 5.

Ind., Indianapolis — G. Schmidt, engr. Marion Co., 407 Fidelity Trust, **(e. e. means engrs. est.)**, from Emulsified Asphalt Co., Hume-Mansur Bldg., asphaltic concrete paving 15,206 sq.yd. Kassebaun Rd. $55,573, e. e. $56,800, 22,704 sq.yd. Esmon Rd. $75,170, e. e. $77,000, 2.69 mi. Fitch Rd., 18 ft. $109,386, e. e. $116,327; from A. D. Bowen, 2242 Bway., concrete paving 25,555 sq.yd. McGregor Rd. $78,316, e. e. $82,437. Noted Mar. 5.

Wis., Milwaukee—Dept. Pub. Wks., Mar. 9, grading and paving 1 alley, from Texas Constr. Co., 446 68th Ave., West Allis, $2,340; 1 alley, from E. C. Borst, Manitowoc, $5,938; 1 alley, from G. W. Hirth, 1309 7th St., $1,233; 3 alleys, from Ryback & Sadowski, 1092 2nd Ave., $13,531; 2 alleys, from Schwerm Bros., 50 Lee St., $2,521; and 3 alleys, from Parkinson Constr. Co., 322 27th St., $10,635. Noted Mar. 5.

Ia., Muscatine—Muscatine Co., from Jenner Bros., Davenport, grading, etc., 10.12 mi. road north of here, Project 265-A, incl. earth excav. at $0.249 per cu.yd., loose rock excav. $0.70, and solid rock excav. $0.225, etc.; from T. Ryan & Sons, Missouri Valley, 1.433 mi. road west of Moscow, Project 265-B, earth excav. at $0.34, loose rock excav. $0.75, and solid rock excav. $1.80, etc.

Minn., Kasson — Improving Main St., about 7,834 sq.yd. concrete paving and 2,606 lin.ft. concrete curb and gutter, to Larson Constr. Co., Albert Lee, $24,697.

Tex., Henrietta — Clay Co., grading, bridging, etc. 7.4 mi. Henrietta-Petrolia Rd., 26 ft., from J. M. Purvis, 112½ West 9th St., Ft. Worth, $37,875, engrs. est. $28,500; 306 ft. rein.-con. girder bridge across Big Wichita River, from J. F. Buckner & Son, Cleburne, $24,503, engrs. est. $30,000.

Oklahoma—State Hy. Dept., Oklahoma City, concrete surfacing 54,187 sq.yd. Sapulpa-Bristow Rd., Federal Aid Project 158-A, Creek Co., from Gallamore Constr. Co., Cushing, $118,722. Noted Feb. 19.

Wash., Seattle—Paving North and East 40th St., from Erickson Constr. Co., Henry Bldg., 3,300 ft. integral A. C. curb $0.50, 25,900 ft. integral concrete curb $0.23, 1,885 ft. concrete gutter $0.45, 2,400 ft. concrete sidewalks $1.45, 13,500 cu.yd. subgrade $0.55, 16,205 sq.yd. 7 in. concrete $1.65, 36,895 sq.yd. 6 in. concrete $1.44, etc. total $138,731. Noted Feb. 26.

Calif., Pomona — Improving 7,220 ft. Towne Ave., 19,135 ft. 19- to 28-in. curbing, 453,557 sq.ft. 6 in. concrete base., etc., from Union Constr. Co., Long Beach, $86,500. Engrs. est. $92,340.

Streets and Roads (Continued)

CONTRACTS AWARDED

Mass., Stoughton — Town will construct macadam and gravel road in various streets by day labor. $45,000. B. L. Hinslow in charge.

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, asphalt repaving Empire Blvd., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $18,237; Hamilton Ave., to Bradner Contg. Co., 830 Jefferson Ave., $77,621; Marcy Ave., to Borough Asphalt Co., 1301 Metropolitan Ave., $43,486. Noted Mar. 5.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, to Uvalde Asphalt Paving Co., 1 Bway., New York City, asphalt paving Barbey St. $3,383, Newport St. $4,315, Stone Ave. $9,893, to Cranford Co., 52 9th St., Bay 10th St. $7,270, Gatling Pl. $6,822, 65th St. $16,109, 73rd St. $10,364, 76th St. $7,338, to Cleveland Trinidad Paving Co., Flushing, Dumont Ave. $3,507, to Brooklyn Alcatraz Co., 407 Hamilton Ave., East 10th St. $4,522, East 35th St. $3,851, New York Ave. $10,834, West 37th St. $9,900, 10th Ave. $12,162; to Carberry & Block Corp., 45 South 9th St., grading, curbing and flagging, Bedford Ave. $1,558, East 35th St. $1,398, 62nd St. $3,989, to Grimm Contg. Co., 170 McKinley St., East 9th St. $1,644, to W. J. McHale Contg. Co., 1250 Jefferson Ave., East 10th St. $199, to Harrison & Bernhardt Co., Central Ave., Brooklyn Ave. $3,855. Noted Mar. 12.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, restoring and repaving asphalt pavements damaged in connection with subsurface work to Borough Asphalt Co., 1301 Metropolitan Ave., $40,250.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., granite block repaving Park Ave., to Leonard Paving Co., 233 Bway., $134,942; granite block repaving East Tremont Ave., and grading, curbing and sidewalks on Grand Ave., to Asphalt Constr. Co., 208 Bway., $384,995 and $81,841 respectively; grading, curbing, sidewalks, etc., on Davidson Ave., to Interboro Asphalt Co., 2306 Creston Ave., $71,715. Noted Mar. 12.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Johnson Ave., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $29,158. Noted Mar. 12.

N. J., Newark—Bd. Freeholders Essex County plans grading and sheet asphalt and portland cement surfacing 4,460 ft. River Rd. from Avondale Rd. to Passaic County line, 24 ft. $80,000. W. A. Stickel, co. engr.

N. J., Toms River — Bd. Freeholders Ocean County, 300,000 gal. oil, to Utility Construction Co., 5 Soring St., New Brunswick, $0.222 per gal.

W. Va., Bluefield—One course concrete surfacing Princeton Ave., Projects 1 and 2, to Ford & Harvey, Lynchburg, $76,935 and $64,115 respectively. Noted Feb. 12.

North Carolina—State Hy. Comn., Raleigh, grading and asphaltic on concrete paving 5.93 mi. State Project 330-Extension, Columbus, to Coastal Constr. Co., Florence, $174,657.

South Carolina—Florence Co. (Florence) and Darlington Co. (Darlington), bituminous concrete surfacing 7.22 mi., State Project S-542, to W. F. Bowe, Jr., Augusta, Ga., $220,163.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, gravel surfacing 4.7 mi. Eros-Cadeville Rd., Ouachita Parish, to N. M. George Constr. Co., Shreveport, $75,000.

Tenn., Knoxville—Knox Co. will oil surface Bearden, Tasewell and Ball Camp Pikes, etc., by county forces under supervision of J. W. Freeman, 978 Gratz St., supt. highways. Noted July 24.

O., Cleveland—City, improving Summit Rd. 6,530 sq.yd. vitr. brick paving, 3,300 lin.ft. stone curbing, 3,300 lin. ft. 4 in. drain tile gutter, and 7,000 cu.yd. earth excav., to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $49,450, engrs. est. $50,645; Egerton Rd. 4, 22,900 sq.yd. 5 in. waterbound macadam paving, 22,900 lin.ft. stone curbing, 22,900 lin.ft. 4 in. drain tile gutter, and 1,400 cu.yd. earth excav., to Hannon Constr. Co., Warren, $84,856, engrs. est. $90,000. Noted Mar. 12.

O., Columbus — W. H. Duffy, dir. Pub. Serv., grading, laying water services and sewer connections and paving 2,022 ft. 1st Ave., 34 ft., asphalt, to B. F. Patterson, 1214 Neil Ave., $21,461; 792 ft. Washington Ave., 24 ft., asphalt, to Franklin Asphalt Paving Co., 209 South High St., $10,591; 828 ft. Columbiana Ave., 24 ft., and 1,184 ft. Cliffside Dr., 18 ft., both brick, to R. J. Dienst, 480 South 5th St., $14,578 and $15,398 respectively; 2,621 ft. alley north Mothoff St., 18 ft., concrete, to Yale Ave. Constr. Co., 146 Yale Ave., $4,387; 350 ft. alley north of 6th Ave., 16 ft., concrete, to Federal Paving Co., 996 McAllister Ave., $1,940; 950 ft. 8 in. vitr. sewer in alley north Jason Ave., to L. B. Wilkinson, Columbus, $1,172. Noted Feb. 26.

O., Grandview Heights (mail Columbus) —E. A. J. Gross, village clk., to Cleveland Trinidad Paving Co., Grand Theatre Bldg., Columbus, bituminous stone macadam paving 400 ft Gladden Rd., 25 ft., about $5,000; 850 ft. Timberman Rd., 25 ft., about $12,400, and sheet asphalt paving 12,000 ft. Urlin Ave., 30 ft., about $23,000. Noted Feb. 12.

Ind., Albion — Noble Co. grading and graveling 3.1 mi. Sanders Rd., to M. T. Adair, Albion, $28,998. Engrs. est. $31,396. Noted Mar. 5.

Ind., Boonville — Warrick Co., grading and graveling 3.6 mi. Sousott Rd., 24 ft., to A. B. Kremp & Son, Jasper, $26,386. Engrs. est. $34,000. Noted Mar. 5.

Ind., Laporte—Laporte Co. grading and graveling 3.6 mi. Leubker Rd., 24 ft., to A. W. Taylor & Co., Laporte, $37,620. Engrs. est. $38,750.

Ind., Noblesville—Hamilton Co. concrete paving 29,940 sq.yd. McKinney Rd., to McCoun Constr. Co., Noblesville, $64,845. Engrs. est. $85,000. Noted Feb. 26.

Ind., Rising Sun—Ohio Co., grading and graveling 30,976 ft. Cofield Rd., 24 ft., to Sparks & McClamrock, Frankfort, $41,000. Engrs. est. $46,709.

Ind., Terre Haute — Vigo Co., hardsurfacing 3.8 mi. Erickson Rd., to Peerless Constr. Co., Terre Haute, $73,801. Engrs. est. $98,625. Noted Feb. 26.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 22, Sect. 18, Kane and McHenry Counties, to McGucken & Vander Heyden Co., 314 Fowler St., Milwaukee, Wis., $119,965; Route 27, Sect. 17, Ogle Co., to C. E. Carson Co., 601 St. Clair St., Chicago, $94,146; Route 23, Sect. 22, McHenry Co., to Harrison Eng. & Constr. Corp., Mutual Bldg., Kansas City, Mo., $76,576; Route 2, Sect. 34, Winnebago Co., to McCarthy Impvt. Co., Kahl Bldg., Davenport, Ia., $115,680. Noted Dec. 11 and 26.

Ill., Urbana—Champaign Co. improving 15.3 mi. Routes 6 and 16, Sects. 46-15-D. 48-15-D and 50-15-D, Colfax, Sadorus, Raymond, Ayers, Pesotum and Crittenden Twps., to W. C. Meneely Co., Decatur, $199,700, 14.59 mi. Routes 9, 11, 10 and 10-A, Sects 49-15-D, 53-15-D, and 60-15-D, Ludlow, Rantoul, Compromise, East Bend and Condit Twps., to Wabash Constr. Co., Vincennes, Ind., $201,057.

Ill., Urbana—Champaign Co. furnishing 340,000 gal. road oil, to J. Bateman, Champaign, at $0.0587 per gal., 740,000 gal. to Independent Oil Co., Paris, $0.0588, 250,000 gal. to Indian Refining Co., Lawrenceville, $0.063, 120,000 gal. to Central Illinois Oil Co., Lincoln, $0.0584, 20,000 gal. to Standard Oil Co., 400 East Cerro Gordo St., Decatur, $0.0638; spreading oil in various townships, to J. Bateman, Champaign and W. H. Cocking, Jacksonville, $0.01 per gal. Noted Mar. 12.

Wis., Oshkosh—To J. Rasamussen & Sons Co., foot of 7th St., bituminous concrete paving 4,881 sq.yd. Sawyer Ave. at $3.00 per sq.yd., 2,350 ft. concrete curb and gutter, $0.95, concrete paving 9,010 sq.yd. 11th St. at $2.65 per sq.yd., 6,410 ft. concrete curb and gutter, $0.85, 1,810 sq.yd. 15th St. at $2 per sq.yd., 1,198 ft. concrete curb and gutter, $0.85; to Lampert Constr. Co., Main St., 5,060 sq.yd. Wisconsin Ave. $2.74 and 2,572 ft. concrete curb and gutter $0.85. Noted Mar. 5.

Minn., Jamestown—Stutsman Co., grading, etc., 10.738 mi. Federal Aid Project 275 east of Melville, in Stutsman and Foster Counties, to Holman Webster & Son, Tuttle Lake, N. D., $26,744.

Minn., Owatonna — Improving South Cedar St., 10,032 sq.yd. rein.-con. paving, and 5,222 lin.ft. concrete curbing, to Widell Co., 1st Natl. Bank, Mankato, $29,682. Noted Feb. 26.

Kan., Nortonville — Concrete surfacing 14.382 mi. various streets, to Amer. Paving Corp., 1325 Grace St., Omaha, Neb., $43,846. Noted Mar. 12.

Kan., St. Johns—Stafford Co. will grade and sand clay gravel surfacing 4.526 mi. Central Highway, 18 ft. wide, by day labor. E. O. Adee, St. John, engr. Noted Jan. 15.

Ark., Little Rock—Improving streets in Dist. 404, to G. Garms, 705 High St., $13,176, and streets in Dist. 405, to Southern Material & Constr. Co., Southern Trust Bldg. Noted Feb. 26.

Ark., Russellville—Pope Co. improving 10 mi. Dover-Russellville Rd., Dist. 2, amesite asphalt top surfacing, to Amesite Asphalt Co., 930 Corinth St., Dallas, Tex., and native crushed rock base, to Anderson & Gwynn, Russellville.

Tex., Boston—Bowie Co., grading, concrete surfacing and bridging 3.31 mi. Federal Aid Project 479, and 3.39 mi. Federal Aid Project 472, both 18 ft., to Myer & Greenwalk Constr. Co., Lauderdale, Miss., $99,001 and $87,216 respectively, engrs. est. $100,000 and $95,000 respectively; grading, bridging, concrete and gravel bituminous paving 8.66 mi. Federal Aid Project 475-A, 18 ft., to Tibbetts Constr. Co., Mineral Wells, $254,935, engrs. est. $250,000. Noted Jan. 26.

Tex., Pearsall—Frio Co., grading, gravel surfacing and bridging 14.86 mi. State Highway 85, State Aid Project 542, 16 ft., to Kelly & Lehr, 502 Barrett Pl., San Antonio, $133,173. Engrs. est. $170,000.

Oklahoma—State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, S. A. P. State Aid Project and e. e. engineers estimate)**, grading, concrete surfacing, etc., 52,805 sq.yd. Sapulpa-Bristow Rd., F. A. P. 158-B, Creek Co., and 44,832 sq.yd. same road Sect. C, to Standard Paving Co., 1742 East 3rd St., Tulsa, $136,997 and $109,578 respectively, e. e. $150,000 and $120,000 respectively, 56,136 sq.yd. Oilton-Keystone Rd., F. A. P. 127-E, Creek Co., to M. A. Swatek, Security Bldg., Oklahoma City, $126,313, e. e. $135,000; grading and gravel top surfacing, etc., 56,000 sq.yd. Grant-Red River Rd., Choctaw Co., to A. A. Davis & Co., Grain Exch. Bldg., Oklahoma City, $43,360, e. e. $45,000; grading, etc., 5.218 mi. road west of Henryetta, F. A. P. 168-A and B, Okmulgee Co., to E. G. Fike & Co., Nebraska Bldg., Tulsa, $31,830, e. e. $35,000; concrete surfacing 68,390 sq.yd. Oilton-Keystone Rd., F. A. P. 127-C, Creek Co., to Hanson & Pierce, Edmond, $134,989, e. e. $145,000, and 54,894 sq.yd. Sapulpa-Bristow Rd., F. A. P. 158-D, Creek Co., to Gallamore Constr. Co., Cushing, $111,204, e. e. $120,000. Noted Feb. 19.

Oklahoma — State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, S. A. P. State Aid Project, and e. e. engineers estimate)**, concrete surfacing 5.147 mi. Ochelata-Ramona Rd., 18 ft., F. A. P. 15-C, Washington Co., to Hamilton Constr. Co., Bartlesville, $119,275, e. e. $130,000; grading and gravel top surfacing 5.508 mi. Cleveland-Keystone Rd., 18 ft., Pawnee Co., to E. J. Franklin, Tulsa, $34,653, e. e. $40,000; grading, etc. 5.77 mi. road east from Ponca City, 30 ft., F. A. P. 152-A, Osage Co., to Maney Bros., Empire Bldg., Oklahoma City, $23,795, e. e. $30,000, 7.099 mi. Beggs-Mounds Rd., 30 ft., F. A. P. 159-A and B, Okmulgee Co., to Pharoah Bros., Henryetta, $25,447, e. e. $30,000, 8.571 mi. Okmulgee-Okfuskee Rd., 30 ft., S. A. P. 139-A and B, Okmulgee Co. to Ellis & Lewis, Muskogee, $27,573, e. e. $32,000; grading 4.79 mi. Holdenville-Seminole Co. line Rd., 30 ft., F. A. P. 174, and gravel surfacing 92,000 sq.yd. Holdenville-Hughes Co. line Rd., F. A. P. 175, both Hughes Co., to Standard Paving Co., 1742 East 3rd St., Tulsa, $25,492 and $146,575 respectively, e. e. $30,000 and $160,000 respectively. Noted Feb. 19.

Okla., Alva — Grading and concrete surfacing 13,808 sq.yd. 3rd, 7th and Barnes Sts., to Schultz & Schultz, Harper, Kan., $43,459. Engrs. est. $45,000. Noted Feb. 19.

Wash., Seattle—Paving East 55th St., to R. G. Stevenson 1327 North 34th St., $32,118; Whitman Ave. et al. to McHugh & Coluccio, 517 3rd Ave., North, $37,498.

Calif., Los Angeles—Curbing, sidewalks, asphaltic concrete paving and oiling Montana Ave. between Federal St. and San Vicente Blvd., to Los Angeles Paving Co., 2900 Santa Fe Ave., $43,535. Engrs. est. $40,483.

Calif., Los Angeles—Grading, cement and concrete curbing, concrete paving, etc., 1st alley westerly from Sylmar Ave. between Victory Blvd. and Calvert St., to E. L. Phillips, 215 South Miles Heights Park, $7,700; grading, cement curb and sidewalks, etc., 67th St. between 5th and 11th Ave., to G. A. Constantine, 1341 South Bronson St., $62,918; grading, cement curbing, sidewalks, and concrete paving, etc., Walbridge Ave. between 12th and Pico Sts., to P. J. Akmadzich, 821 Yale St., $12,118.

Calif., Oakland—Improving 81st Ave. between East 14th and Atherton Sts., 136,133 sq.ft. grading, 6,369 ft. concrete curbing, 12,285 ft. concrete gutter, 107,944 sq.ft. bituminous concrete paving, to Oakland Paving Co., 5000 Bway., approximately $35,000. Noted Feb. 19.

Calif., Redwood City — San Mateo Co. for repairing and repaving 7 mi. road

Streets and Roads (Continued)

between Pescadero and San Gregorio, 65,000 sq.yd. oil screenings surface on 3 in. rock macadam, to W. W. Thompson, P. O. Box 428, $48,850. Noted Feb. 19.

Calif., Santa Cruz—Improving Ocean St. between Water and Soquel Aves. and Ocean St. between Bway. and East Cliff Dr., 168,387 sq.ft. grading, and 168,387 sq.ft. 5 in. concrete paving, etc., to Thompson Bros., G and Divisadero Sts., Fresno, $35,651. Noted Feb. 19.

Calif., South Gate — Grading, curbing, guttering, sidewalks, etc., on 5,000 ft. Long Beach Blvd., to G. H. Oswald, 366 East 58th St., Los Angeles, $127,976. Engrs. est. $128,000.

Buildings—Industrial

PROPOSED WORK

Me., Lewiston—Plant, etc.—Androscoggin Electric Co., plans plant and line extensions. $200,000. Private plans.

Me., West Paris—Plant—Maine Milling & Mining Co., Portland, plans feldspar grinding plant, 40 to 50 tons capacity per day, here. Address W. L. Adams, 211 Ocean Ave., C. H. Farley, 13 Michigan St., or W. W. Mitchell, 102 Exchange St., all of Portland.

Mass., Athol—Factory—Wilcox Novelty Co., 256 Main St., plans 3 story, 40 x 200 ft., brick and steel, plain foundation, Main St., $125,000. Engineer and architect not selected.

Mass., Gloucester—Garage—City, A. F. Grant, Clk. plans repair and service garage, School & Proctor Sts. To exceed $50,000. Architect not selected.

Mass., Montague—Plant—Bd. Selectmen plans municipal lighting plant. $50,000. Engineer and architect not selected.

Mass., Newtonville (Br. Boston)—Repair and Service Garage—Central Garage, Inc., c/o E. A. McDonald, engr. and archt., 77 Summer St., Boston, having plans prepared 2 story, rein.-con. and steel, plain foundation, Newtonville Sq., here. $100,000. Noted Dec. 25.

Mass., Springfield—Repair Garage and Service Station — Noyes-Buick Co., 857 Commonwealth Ave., Allston, having plans prepared 2 story, rein.-con. and brick, Main and Gardner Sts., here. To exceed $40,000. Private plans.

Mass., West Brookfield—Plant—Wheeldon Wire Co. plans rebuilding plant, recently destroyed by fire. $50,000. Engineer and architect not selected.

N. Y., New York—Factory—F. G. Shattuck Co., 60 West 23rd St., having plans prepared by R. G. Corey, 30 Church St., 12 story, 100 x 100 ft., rein.-con. and brick, plain foundation, 43 West 22nd St. $500,000.

N. J., Trenton — Machine Shop — J. E. Thropp & Sons, Inc., Lewis St., soon lets contract 1 story and basement, 82 x 162 ft., rein.-con., brick and steel, Fair St. W. E. S. Dyer, Land Title Bldg., Phila., Pa., archt.

N. J., Trenton—Factory—Freeman Electric Co., 10 Prince St., plans 2 story electric porcelain factory, brick and steel. $40,000. J. O. Hunt, 219 East Hanover St., engr.

Pa., Chester—Plant—Ford Motor Co., Highland Park, Mich., having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 story assembly plant, steel, brick and tile, plain foundation, here.

Va., Richmond — Tank Shop — Amer. Locomotive Co., 30 Church St., New York City, N. Y., plans rein.-con. and steel tank shop, plain foundation, here. $150,000. Private plans.

N. C., Cumnock — Plant — Carolina Fire Proofing Co., Sanford, plans, (1st unit) of plant, etc. I. Hechenbleikner, Hermitage Rd., Charlotte, pres.

N. C., Salisbury—Mill—Rowan Cotton Mills Co. plans addition to double size and capacity of present mill, etc. A. C. Lineburger, Belmont, pres.

Tenn., Knoxville — Shop — Tennessee-Colorado Marble Co. having plans prepared by Manley & Young, 814 West Hill Ave., 180 x 200 ft., concrete and steel marble cutting shop.

Mich., Detroit — Factory — Grover Co. East Jefferson Ave., having plans prepared 1 story and part basement, rein.-con., brick and steel, plain foundation, Pine St. $50,000. Engineer and architect's names withheld.

Wis., Janesville — Manufacturing — Chamber of Commerce, c/o O. Nelson, secy., 114 East Milwaukee St., soon takes bids 1 story, 158 x 200 ft., brick and timber manufacturing building, plain foundation. To exceed $40,000. Private plans. Northern Conveyor & Mfg. Co., 3204 Auer Ave., Milwaukee, lessee.

Wis., Kaukauna—Power Plant—Green Bay & Mississippi Canal Co., Insurance Bldg., Appleton, W. Van Nortwick, mgr., making plans brick and concrete hydro-electric power plant, dam, etc., at Rapid de Croche, 4 mi. north of here. $500,000. Private plans.

Wis., Milwaukee—Factory—Kerner Incinerator Co., 1029 Chestnut St., M. Wells, pres., having plans prepared 1 and 2 story, 70 x 122 ft., brick and timber, plain foundation, East Water St. Private plans.

Wis., Two Rivers — Manufacturing — Kahlenberg Bros. Co. having plans prepared by Lockwood, Greene & Co., archts. and engrs., 38 South Dearborn St., Chicago, Ill., 1 story, 62 x 150 ft., brick and steel addition, plain foundation. $40,000.

Wis., Waukesha—Plant—G. E. Luebben, 416 East College Ave., and P. Luebben, 741 Marietta Ave., Milwaukee, plan 3 story light manufacturing building, brick and concrete or brick and timber, Clinton St. To exceed $40,000. Engineer and architect not selected.

Minn., Minneapolis—Factory, etc.—Cosby-Wirth Sales Book Co., 422 Washington Ave. N., having plans prepared by Ekman, Holm & Co., 302 Phoenix Bldg., 1 and 2 story and basement, 110 x 144 ft., brick and stone, factory and office building, 16th and Washington Aves. $45,000.

Kan., Topeka—Boiler Plant—State having plans prepared by C. M. Rutledge, state archt., Topeka, new boiler plant at Boys Industrial School. $150,000.

Neb., McCook—Plant—Plans election in April, $172,000 bonds, municipal light and power plant.

Mo., Springfield — Creamery — Missouri Farmers Assn., c/o H. A. Cowden, secy., soon takes bids 2 story and basement, rein.-con. and brick plant. $250,000. Private plans. Noted Oct. 9.

Mo., St. Louis—Laundry—City soon takes bids 2 story and basement, rein.-con., brick and stone, City Sanitarium grounds. $155,000. L. R. Bowen and H. Updike, 301 City Hall, engrs. L. R. Bowen and E. E. Christopher, 301 City Hall, archts.

Tex., Cooledge — Plant — J. R. Ogilvie plans ice plant. $45,000. Engineer and architect not announced.

Tex., Houston — Foundry — J. H. Dore, 1203 Oak Dale St., having plans prepared 1 story, 75 x 200 ft. corrugated iron foundry. $42,000. Engineer and architect not announced.

Tex., Houston—Plant—Owner, c/o E. P. Woods, mgr., having plans prepared 4 story, 100 x 125 ft., rein.-con. and brick packing plant. $150,000. Engineer and architect not announced.

Tex., Robert Lee — Plant — Owner, c/o A. W. Puett, plans new ice plant. $45,000. Engineer and architect not announced.

Okla., Ardmore—Ice Plant and Cold Storage—H. Rowe, et. al., soon takes bids 2 story, 75 x 150 ft., and 150 x 300 ft., concrete and brick, 25 ton capacity. $100,000. Private plans.

Wash., Centralia—Power Plant—Western Cross Arm & Mfg. Co. plans power plant. $100,000.

Wash., Seattle — Plant — Pacific Coast Gypsum Co. plans moving from Tacoma to here, and constructing large factory on 7 acre site on West Marginal Way, also slip large enough to accomodate 10,000 ton ship will be dredged. Initial investment $300,000.

Wash., Tacoma—Plant—Pacific Paper Products Co. plans plant, on 50 x 200 ft. site.

Calif., San Francisco—Factory—L. R. Lurie, 315 Montgomery St., having plans prepared by O'Brien Bros., Inc., 315 Montgomery St., 2 story, 80 x 115 ft., rein.-con., 4th and Stillman Sts. $40,000. Glaseo Bros., 621 Montgomery St., lessee.

Calif., San Francisco—Plant—Banner Refining Co., 3rd St. and Islais Creek, plans rebuilding oil storage plant, 20th and Minnesota Sts., destroyed by fire. Loss $250,000.

BIDS DESIRED

Me., Camden—Plant—Seabright Woven Felt Co., c/o F. E. Page, 68 Essex St., Boston, Mass., taking bids 2 story and basement, 90 x 107 ft., brick and timber spinning and weaving plant. $100,000. J. C. and J. H. Stevens, 184 Middle St., Portland, archts. Noted Feb. 12.

Mass., Norfolk Downs (Sta. Boston)—Plant—S. H. Couch Co., Inc., 170 Purchase St., Boston, taking bids 1 and 2 story, 50 x 150 ft., brick and timber addition to manufacturing and storage plant. French & Hubbard, 210 South St., Boston, archts. Noted Jan. 29.

Wis., Milwaukee—Manufacturing—H. J. Esser, archt., 82 Wisconsin St., taking bids 3 story, 20 x 57 and 57 x 164 ft., brick and timber, plain foundation, 33rd St. for A. H. Weinbrenner Co., 66 Juneau Ave. $75,000.

Calif., Los Angeles—Factory—Albertson Motor Car Co., 1540 South Figueroa St., taking bids, 2 story, 101 x 300 ft., rein.-con., 50th St. and Long Beach Ave. $200,000. J. M. Cooper, Marsh-Strong Bldg., archt. Noted Mar. 12.

Calif., Los Angeles—Service Station—L. L. Smith, archt., 833 South Spring St., taking bids remodeling present structure and constructing 4 story, steel and rein.-con. annex, South Hill St., for City, c/o Pub. Service Comn. $155,000. Noted Mar. 12.

CONTRACTS AWARDED

Mass., Cambridge (Boston P. O.) — Factory—Simplex Wire & Cable Co., 204 Devonshire St., Boston, 3 story and basement, 80 x 100 ft., steel and stucco, Pacific St., here, to Stone & Webster, Inc., 147 Milk St., Boston. Archts. est. $125,000.

Mass., Framingham — Shop — Guerney Heater Co., c/o Lockwood, Greene & Co., archts., 24 Federal St., Boston, 1 story, 125 x 250 ft. machine shop, brick, to McNally Building Co., Framingham.

Mass., Jamaica Plain (Boston P. O.)—Repair and Service Garage—W. A. McPherson, 10 Roseway St., will build 2 story, 90 x 110 ft., rein.-con. and brick, 3708 Washington St., by day labor. $75,000. Private plans.

Mass., Worcester—Factory—L. Krintzman, 291 Harrison St., 4 story, 40 x 50 ft., brick, plain foundation, Harrison St., to N. Dworman, 157 Providnce St., Worcester. Archts. est. $40,000. Noted Feb. 19.

Mass., Worcester—Repair and Service Garage—Owner, 4 story, 110 x 180 ft., rein.-con. and steel, Foster and Union Sts., to J. W. Bishop Co., 109 Foster St. Archts. est. $200,000.

Conn., Stamford—Factory—Richards & Co., Ludlow St., 1 story, 80 x 340 ft. chemical factory, stucco and tile, to J. W. Ferguson Co., 152 Market St., Paterson, N. J. Archts. est. to exceed $40,000.

N. J., Hutchinsons Mills (Mercerville P. O.)—W. and J. Sloane, 5th Ave. and 47th Sts., New York City, masonry contract for linoleum plant, to Karno-Smith Co., Broad St. Bank, Trenton, $500,000. Noted Jan. 8 under Trenton.

Pa., Phila.—Factory—Brooks Bros. Co., 4841 Lancaster St., 3 story and basement, 62 x 108 ft., brick and steel, plain foundation, to Robbins Constr. Co., 1137 North Front St. Archts. est. $75,000.

Pa., Phila. — Factory — Baxter Kelly & Faust, Tioga St. between C and Arbor Sts., 2 story and basement, 54 x 193 ft., rein.-con. and brick, plain foundation, to P. Harbach Constr. Co., 1261 North 26th St. Noted Feb. 12.

Pa., Scranton—Factory—Scranton Lace Co., 2 story, 60 x 100 ft., rein.-con. factory at Clarks-Summit, to M. C. Tuttle Co., Park Sq. Bldg., Boston, Mass.

Md., Baltimore — Factory — Maryland Glass Corp., Mt. Winans, 2 story, 30 x 83 ft., rein.-con., brick and steel Linden Ave. and Ontario Sts., to Consolidated Eng. Co., 20 East Franklin St., $60,000. Noted Mar. 5.

Ala., Birmingham—Ice Plant—Bessemer Ice & Coal Co., Bessemer, 75 x 200 ft., 60 tons daily capacity ice manufacturing plant, electrically operated, here, to Holly & Davis, 4401 Comm. Ave., Ensley, $100,000.

La., Baton Rouge—Plant—Baton Rouge Electric Co., 3,500 kw. turbo-generator, and constructing addition to plant, etc., to Stone & Webster Inc., 147 Milk St., Boston, Mass.

La., Ferriday—Mill—Fisher-Hurd Lumber Co., will build 1 story, 50 x 190 ft. hardwood mill, by day labor.

O., Cincinnati—Factory—W. Koehl Paper Box Co., 1034 Hulbert Ave., 1 story rein.-con. and brick addition, to Ferro Concrete Constr. Co., 3rd and Elm Sts., $35,000.

O., Cleveland— Cabinet Shop—G. F. Dalton, Sr., 11600 Beulah Ave., will build 2 story, 40 x 100 ft., brick and timber, 9517 Meech Ave., by day labor. $40,000. Private plans.

O., Cleveland — Factory — Electric Controller & Mfg. Co., 2698 East 79th St., altering and constructing 1 story, brick and steel addition, to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $40,000.

Ind., Indianapolis—Garage—Constructing municipal garage to Karstedt Constr. Co., 429 Semche St., $100,000.

Buildings—Industrial (Continued)

Mich., River Rouge—Mill—Ford Motor Co., Highland Park (Detroit P. O.), 1 story, 85 ft. high, 240 x 1,060 ft. steel mill, to Whitehead & Kales Co., 2361 Beecher Ave., Detroit.

Ill., Waukegan — Factory — Granert & Rothschild, 306 South Franklin St., Chicago, general contract 2 story and basement, 80 x 130 ft., timber, brick, etc., Lakeview and Clinton Sts., here, to O. Sandstrum, 127 North Genessee St. Archts. est. $60,000.

Ill., Witt — Power Plant — Indiana & Illinois Coal Co., C. Keller, pres., will build 1 and 2 story, steam power plant, rein.-con. and brick, to provide power and light in mines in Nokomis, Hillsboro, Taylor Springs, Witt, etc., by day labor. $100,000. Private plans.

Wis., Milwaukee—Plant—Wisconsin Ice & Coal Co., 320 East North Ave., will build 1 story, 80 x 90 ft., brick and timber, plain foundation, North Ave., by day labor. $45,000. O. Luhr, 118 North La Salle St., Chicago, Ill., archt. and engr.

Wis., North Milwaukee—Factory—P. W. Anton Co., 1451 Murray Ave., Milwaukee, will build 1 story, 20 x 68 ft. and 52 x 70 ft., packing plant, Custer Ave., by day labor. Private plans.

Mo., St. Louis—Shop—City will build 2 story and basement, rein.-con., brick and stone building for manual training department at Bellefontaine Industrial Farm, by day labor. $50,000. L. R. Bowen and H. Updike, 301 City Hall, engrs. L. R.Bowen and C. C. Christopher, 301 City Hall, archts.

Mo., St. Louis—Industrial—Dougherty-Sheehan Real Estate Co., 721 Chestnut St., 6 story and basement, 44 x 109 ft., Olive St., by day labor under supervision W. Sheehan, 721 Chestnut St., archt.

Mo., St. Louis—Plant—Bettendorf Packing Co., 1730 South 9th St., will build 2 story and basement, 120 x 140 ft., rein.-con. and brick plant, by day labor under supervision Natl. Packers Supply Co., 405 Franklin Ave., archts. $200,000.

Tex., Ft. Worth—Plant—E. P. Maddox & Co., c/o Crystal Ice Co., 1 East Magnolia St., ice plant to supply Arlington Heights Dist., to C. T. Hodge & Co., Keene Bldg., cost plus percentage basis. Engrs. est. $50,000.

Okla., Elk City — Compress — Elk City Compress Co. will build cotton compress, 500 bale capacity, by day labor. $60,000. Engineer not announced.

Calif., Fresno—Plant—J. B. Inderrieden Co., Ventura and R Sts., 2 story and basement, 125 x 150 ft., rein.-con. packing plant, Ventura St., to J. McCullough, Fresno, approximately $200,000.

Calif., Los Angeles—Factory—Paraffine Cos., Inc., 903 North Main St., 100 x 190 ft., and 180 x 360 ft. factory buildings, both 1 story, steel and corrugated iron, Vernon Ave., to Macdonald & Kahn, Spring Arcade Bldg.

Buildings—Commercial

PROPOSED WORK

Mass., Dedham—Bank—Dedham Natl. Bank, T. L. Richardson, pres., High St., having preliminary plans prepared by L. C. Greenleaf, 101 Tremont St., Boston, 2 story and basement, rein.-con., brick and steel. $150,000.

Mass., Gloucester—Fire Station—Fire Dept. plans new central fire station. $150,000 or more. Engineer and architect not selected.

Mass., Hyde Park (Boston P. O.)—Club House—Knights of Columbus Building Assn., J. F. Rooney, chn. building comn., raising funds for club house, Hyde Park Ave., here. $150,000. Engineer and architect not selected.

Mass., Leominster—School—St. Cecelias French Catholic Church, J. E. Chicoins, pastor, takes bids about Apr. 1, 3 story and basement, brick, $150,000. W. H. Fountain, Federal Bldg., Worcester, archts. Noted Feb. 5.

Mass., Marlboro — Bank — First Natl. Bank having plans prepared by Allen & Collins, 75 Newbury St., Boston, 1 story and basement, brick and stone, plain foundation, $150,000.

Mass., Newton (Ind. br. of Boston)—Hospital—Bd. Trustees Newton Hospital, Woodland St., plans additions and extensions. $150,000 or more. Engineer and architect not selected.

Mass., Norwood — Apartment — W. P. Nickerson, Brook St., plans brick and stone, Brook St. $160,000. Engineer and architect not selected.

TUNNEL—JERSEY CITY, N. J.

Following are lowest three bids opened by New York State Bridge & Tunnel Comm. and New Jersey Interstate Bridge & Tunnel Comm., Woolworth Bldg., New York City, for constructing portion of two tunnels and two open approaches to river section of vehicular tunnel under Hudson River in Jersey City. Contr. No. 6. (A) Booth & Flinn, Ltd., 17 Battery Pl., New York City (awarded contract); (B) Rodgers & Hagerty, Inc., Grand Central Terminal, New York City; (C) Frederick L. Cranford, Inc., Foot 6th St. & Gowanus Canal, Brooklyn, N. Y. The unit bids are as follows:

	A	B	C
26,500 cu.yd. excavation above M.H.W.	$10.00	$11.00	$25.00
58,500 cu.yd. excavation below M.H.W.	10.00	11.50	25.00
1,885 cu.yd. caisson excavation	110.00	135.00	150.00
25,250 cu.yd concrete	20.00	24.00	27.80
35,700 sq.ft. pre-cast concrete forms	.60	.40	.50
1,000 bbl. mortar batches used in connection with placing concrete	4.00	5.00	8.00
110 cu.yd. brick masonry	50.00	65.00	40.00
4,220 lin.ft. granite curbing for tunnel roadway	5.00	4.50	4.50
20 cu.yd. hollow terra cotta tile	28.00	50.00	40.00
17,500 lin.ft. timber piles	2.00	.80	2.00
15 M.ft.B.M. timber cradle to support sewers	140.00	120.00	250.00
1,400 sq.yd. waterproofing, treated fabric laid with asphalt, 2 ply	1.60	2.80	2.00
2,430 sq.yd. waterproofing, treated fabric laid with asphalt, 3 ply	2.40	4.20	2.50
11,400 sq.yd. waterproofing, treated fabric laid with asphalt, 4 ply	3.20	5.60	3.00
50 sq.yd. waterproofing, treated fabric laid with asphalt, 5 ply	4.50	7.00	4.00
1,900 sq.yd. waterproofing, treated fabric laid with asphalt, 6 ply	5.10	8.50	4.00
1,885 cu.yd. waterproofing, brick in asphalt mastic inc. 1 ply treated fabric	60.00	60.00	55.00
3,000 ton built-up steel work and tie rods	150.00	116.00	175.00
3 ton bolts, castings and wrought-iron fixtures not otherwise pro. for	350.00	400.00	400.00
545 ton steel beams and shapes	150.00	116.00	175.00
385 ton steel rods and bars	200.00	110.00	100.00
25 ton wire mesh	300.00	250.00	400.00
16 air duct manhole frames with covers	150.00	200.00	400.00
335 ton furnishing new riveted steel pipe sewers	150.00	120.00	200.00
19 ton copper steel plates, bolts, nuts and washers	200.00	200.00	400.00
2,000 lb. wrought-iron or steel pipe for sub. chg's except pipe for elec. cond.	.15	.20	.15
5,150 lin.ft. galvanized iron electric conduits in the tunnel, ¾ in.	.25	.45	.50
2,280 lin.ft. galvanized iron electric conduits in the tunnel, 1 in.	.35	.60	.60
11,520 lin.ft. galvanized iron electric conduits in the tunnel, 1½ in.	.60	.80	.90
1,150 lin.ft. galvanized iron electric conduits in the tunnel, 2 in.	1.00	1.30	1.00
100 lin.ft. galvanized iron electric conduits in the tunnel, 2½ in.	1.10	1.50	2.50
100 lin.ft. galvanized iron electric conduits in the tunnel, 3 in.	1.70	1.60	3.00
525 lin.ft. galvanized iron electric conduits in the tunnel, 4 in.	2.25	2.00	4.00
35 galvanized iron fixtures, outlet boxes 3½ x 3½ x 1½ in.	2.50	2.00	3.00
55 pull boxes 4 x 4 x 3 in.	3.00	3.00	4.00
30 pull boxes 6 x 10 x 4 in.	6.00	6.00	10.00
55 pull boxes 8 x 12 x 4 in.	8.50	8.00	15.00
8,500 lb. curb guards, ladders and misc. fixtures	.20	.25	.20
10 pull boxes 12 x 24 x 6 in.	17.00	20.00	17.00
140 boxes for lights in the tunnel	10.00	12.00	15.00
60 ton furnishing cast iron hub and spigot pipe for surface charges, (straight pipe)	100.00	80.00	100.00
6 ton furnishing cast iron hub and spigot pipe for surface charges, (special castings)	200.00	200.00	250.00
5 ton new C. I. manhole and catch basin fixtures, etc.	160.00	200.00	250.00
76 cast-iron exhaust air ports type A-6	20.00	20.00	50.00
106 cast-iron exhaust air ports type E-3	26.00	25.00	40.00
270 lin.ft. cast-iron water discharge or other tunnel service pipe, 4 in.	1.60	1.75	2.50
3,150 lin.ft. cast-iron water discharge or other tunnel service pipe, 6 in.	2.40	2.50	3.00
470 lin.ft. cast-iron water discharge or other tunnel service pipe, 8 in.	3.00	3.25	4.00
290 lin.ft. cast-iron water discharge or other tunnel service pipe, 10 in.	4.00	4.00	5.00
50 lin.ft. cast-iron water discharge or other tunnel service pipe, 12 in.	5.00	5.00	7.00
500 lb. miscellaneous bronze fixtures	1.25	1.00	1.00
1,000 lb. miscellaneous brass fixtures	1.25	1.00	1.00
24,200 lb. sheet lead for waterproofing and flashing	.20	.50	.40
26,570 duct.ft. tunnel ducts, single way	.30	.30	.30
100 duct.ft. tunnel ducts, 2-way	.30	.30	.30
600 duct.ft. tunnel ducts, 3-way	.30	.30	.30
100 duct.ft. tunnel ducts, 4-way	.30	.30	.30
1,700 duct.ft. tunnel ducts, 6-way	.35	.30	.30
3,200 duct.ft. tunnel ducts, 4-fibre	.30	.30	.40
450 sq.ft. asbestos lumber, ¼ in.	.50	1.00	1.00
500 lin.ft. changing cast-iron water pipe 4 in. or under	.90	2.00	2.00
1,150 lin.ft. changing cast-iron water pipe 6 in.	1.75	2.50	3.00
860 lin.ft. changing cast-iron water pipe 10 in.	2.50	3.00	4.00
250 lin.ft. changing gas pipe (not new pipe) 4 in.	.90	2.00	4.00
50 lin.ft. changing gas pipe (not new pipe) 6 in.	1.75	2.50	5.00
2,300 lin.ft. changing creosted wood conduits 2 in.	1.50	.60	.40
100 lin.ft. laying vitrified pipe sewers 6 in. pipe	1.00	2.00	4.50
50 lin.ft. laying vitrified pipe sewers 12 in. pipe	2.00	4.00	6.00
600 lin.ft. laying vitrified pipe sewers 18 in. pipe	3.00	6.00	6.50
100 lin.ft. laying cast-iron pipe sewers 6 in. pipe	1.50	2.50	5.00
300 lin.ft. laying cast-iron pipe sewers 8 in. pipe	1.75	3.00	6.00
630 lin.ft. changing steel pipe sewers 60 in.	5.00	6.00	30.00
800 lin.ft. changing steel pipe sewers 66 in.	10.00	7.25	30.00
250 lin.ft. changing steel pipe sewers 96 in.	15.00	9.75	50.00
2,400 lin.ft. building tight board fence	2.50	3.50	3.00
500 sq.yd. restoration of stone block pavement	3.00	4.50	5.00
100 lin.ft. restoration of curbing	3.00	1.00	2.00
Extended totals	$2,582,970	$2,706,311	$4,262,462

Mass., Quincy (Boston P. O.)—Church—Atlantic Methodist Episcopal Church Society, G. V. Shedd, pastor, 62 East Squantum St., Atlantic, having plans prepared by Woodbury & Stuart, 581 Boylston St., Boston, 1 story and basement, rein.-con. and granite, plain foundation, East Squantum St., Atlantic Section, here. $150,000.

Mass., Ridgefield—School—School Comm., plans High School, Prospect St., $150,000. Engineer and architect not selected.

Mass., South Braintree—Bank—Braintree Savings Bank, L. B. Hollis, pres., having sketches made by J. W. Beale Sons Co., 62 Summer St., Boston, 2 story and basement, rein.-con., brick, steel and stone, plain foundation, $150,000.

Mass., Springfield — Mercantile — Crane Co., 62 Hampden St., having plans prepared by McClintock & Craig, 33 Lyman St., 3 story, brick, Columbus Ave. $175,000.

Mass., Wakefield—Exchange—New England Telephone and Telegraph Co., 50 Oliver St., Boston, J. E. Duffy in charge, having plans prepared by P. O. Hopkins, archt., 177 State St., Boston, 2 story and basement, rein.-con. and brick, Richardson Ave. and Foster St. $150,000.

Mass., West Springfield (Springfield P. O.) — Mercantile — Hampden Co., Impvt. League, Springfield, having plans prepared by L. R. Howe, Mittineague, 2 story and basement, 75 x 110 ft., brick mercantile building. $150,000.

Mass., Winchester — School — Town, R. Stove, chn. Building Com., plans school in eastern section. $150,000-$200,000. Engineer and architect not selected.

Mass., Worcester — School — City, J. B. Moss, chn., having plans prepared by L. W. Briggs, 314 Main St., 5 story and basement, 50 x 140 ft., brick and steel addition to Boy's Trade School. Main St. $250,000.

R. I., Providence—Church, etc.—Sacred Church of Christ, Christian Science Parish, c/o C. H. Lockwood, archt., 171 Westminster St., having revised plans prepared 1 story, 70 x 100 ft., brick and steel church

Buildings—Commercial (Continued)

and reading room, plain foundation. $150,000-$175,000. Noted Aug. 7.

R. I., Providence—School—School Com. having plans prepared by Clark & Howe, Turks Head Bldg., New Guiteres School, 2 story and basement, brick, Washington St. $245,000.

R. I., Woonsocket—Business—Kane Furniture Co., 86 South Main St., plans 4 story, brick and steel, business block, Main St. $200,000.

R. I., Woonsocket—Theatre and Stores—Famous Players Lasky, 16 East 42nd St., New York City, having plans prepared by Perry & Whipple, 15 Westminster St., Providence, theatre and stores, $150,000 or more.

Conn., Ansonia—Masonic Temple—Lodge of Masons, Bldg. Com. having preliminary plans prepared by Orr & del Grella, 956 Chapel St., New Haven, brick and stone masonic temple, $150,000.

Conn., Danbury—Home—Masonic Home, W. S. Holman, 45 Pleasant St., chn., having plans prepared by Sunderland & Watson, archts., 248 Main St., alterations and constructing brick and steel additions, Main St., $150,000.

Conn., Hartford—Hall—I. O. O. F. Assn. plans 3 story, 44 x 188 ft., fireproof hall, incl. auditorium with 1,500 seating capacity, 420 Main St. $200,000. F. Walz, 407 Trumbull St., archt.

Conn., Hartford—School—Mt. St. Joseph Academy, Hamilton Heights, plans additional buildings for junior and senior School, Farmington Ave., $150,000. Engineer and architect not selected.

Conn., New Britain—School—Bd. Educ., J. M. Halloran, chn., having plans prepared by H. Ludorf, archt., 122 Main St., 2 story and basement, brick and steel, Day, Austin and Belden Sts., $150,000. Noted Feb. 19.

Conn., New Haven — Community Center—Y. M. H. A., Crown St., having plans prepared by J. Weinstein, Metropolitan Bldg., for community center, Crown St. $250,000.

Conn., Simsbury—School—Bd. Educ. having plans prepared by School Plan Service Bureau, 2 story and basement, rein.-con., brick school, here. $150,000.

Conn., Southington—(Hartford P. O.)—School Bd. of Selectmen, Town Hall, plans 16 room and auditorium, rein.-con., brick and stone, school here. $150,000. W. T. Arnold, 34 W. Main St. Meriden. Archt.

Conn., Stamford—Church—Holy Name of Jesus Parish, F. M. Wladasz, having plans prepared by H. F. Ludorf, 122 Main St., New Britain, 1 story, brick and artificial stone, South St. $150,000.

Conn., Waterbury—School—St. Peter & Paul Roman Catholic Church having plans prepared by O'Connell & Shaw, 134 Newberry St., Boston, Mass., 2 story and basement, brick school. $150,000.

N. Y., Buffalo—Hospital, etc.—Plans to issue $500,000 bonds for J. N. Adam Memorial Hospital, $400,000 bonds for Natural Science Museum and $800,000 bonds for schools and sites.

N. Y., Kew Gardens—Apartment—M. Janofsky and M. Levin, c/o W. I. Hohauser, archt., 1400 Bway., having plans prepared 4 story, brick, steel and stone, plain foundation, $700,000.

N. Y., New York — Loft — Lanabel Realty Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., having plans prepared 23 story, 100 x 100 ft. brick, steel and stone, plain foundation, 8th Ave. and 38th St. $1,000,000.

N. Y., New York—Loft—M. M. Taylor, c/o G. and R. Blum, archts. and engrs., 505 5th Ave., having plans prepared brick, steel and stone, plain foundation, 38 West 48th St. $225,000.

N. Y., New York — Theatre — Fox Film Corp., 10th Ave. and 50th St., having plans prepared by T. W. Lamb, 644 8th Ave., brick, steel and stone, plain foundation, 126 East 13th St. $850,000.

N. Y., Woodhaven (branch Jamaica)—School — W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, rejected bids Mar. 4, addition to P. S. 65, 77th St., here for Bd. Educ., 500 Park Ave., New York City. Will readvertise. Noted Mar. 12.

Pa., Pittsburgh—Bank and Apartments—Bloomfield Trust Co., 474 Liberty Ave., having plans prepared by G. H. Schwan, Peoples Bank Bldg., 45 x 127 ft., Liberty Ave. $200,000.

Pa., Wellsboro—Hotel—Wellsboro Hotel Co. plans remodeling and constructing 3 story and basement, 60 x 100 ft. addition, incl. boiler plant, etc., Main St. $150,000. G. B. Dusinberre, I. J. Focht and E. G. Carson, building com.

Pa., Wilkinsburg—Theatre—Rowland & Clark, State Bldg., Pittsburgh, having plans prepared by V. Rigamount, State Bldg., Pittsburgh, 1 story, balcony and basement, 82 x 132 ft., terra cotta, brick and steel, Penn Ave., here. $150,000.

Md., Baltimore—Nurses' Home—Union Memorial Hospital, 33rd St., having plans prepared by J. E. Sperry, Calvert Bldg., 6 or 7 story brick and steel, plain foundation, 33rd St. $500,000.

Md., Baltimore—School—St. Anthony's Parochial School, Franklin Ave., having plans prepared by L. R. White, Hearst Tower, 2 story, 70 x 109 ft., brick, plain foundation, Franklin Ave. west of Belair Rd. $160,000.

Va., Norfolk—Theatre and Office—Loews, Inc., State Theatre Bldg., 45th St. and Bway., New York City, plans brick, steel and stone theatre and office building, plain foundation, here. $1,000,000. Engineer and architect not selected.

N. C., Asheville—Hotel—Chicago Syndicate of whom R. Greene is representative at Asheville, plan 8 story and basement hotel on property of J. H. Lange, Walnut St. $440,000.

N. C., Durham—Theatre—City plans theatre or auditorium. $250,000. R. W. Rigsbee, city mgr.

Ga., Atlanta—Store and Theatre—A. G. Candler, Jr., Candler Bldg., having plans prepared by Starrett & Van Vleck, 8 West 40th St., New York City, 6 story and basement, store and theatre building. $6,000,000. R. H. Macy & Co., Inc., 34th St. and Bway., New York City, lessee.

Ga., Atlanta—Theatre and Office—Loews, Inc., State Theatre Bldg., 45th St. and Bway., New York City, N. Y., plans brick and steel, Peach Tree St., here. $750,000. Engineer and architect not selected.

Ala., Birmingham—Theatre and Store—Loews, Inc., State Theatre Bldg., 45th St. and Bway., New York City, plans brick, steel and stone, plain foundation, here. $750,000. Engineer and architect not selected.

Ala., Huntsville—Hospital—City having plans prepared by F. Lockwood, 119 Adams St. hospital on site on Madison Pike, donated by H. Rhett. $150,000. To be built by public donations. Noted Apr. 10.

Tenn., Harrogate—Administration—Lincoln Memorial University and Alumni, plans to raise $200,000 funds for administration building and improvements to university. R. O. Matthews, pres.

Tenn., Memphis — Office and Store — D. Dermon, et al., Commercial Bank Bldg., had plans prepared by C. O. Pfeil & G. Awsumb, Fidelity Bank Bldg., 10 story, office and store building. Court and North 3rd Sts., and garage across street on Court St. $150,000. Noted Jan. 29.

Tenn., Nashville — Theatre — Crescent Amusement Co., T. Sudekum, pres., having plans prepared by Marr & Holman, Stahlman Bldg., remodeling building for theatre, 1,500 seating capacity, 6th and Church Sts. $160,000.

N. C., Rocky Mount—School—City plans election $150,000 bonds for school.

O., Cincinnati — Church — First Presbyterian Church, Westwood, having plans prepared by S. Hannaford & Sons, 1024 Dixie Terminal Bldg., 2 story and basement, rein.-con. and stone, Harrison St. $150,000.

O., Cleveland — Commercial — Pontiac Impvt. Co., c/o W. T. Corlett, treas., 3328 Vega Ave., plans 3 story and basement, brick, Chester Ave. and East 13th St. $150,000. Engineer and architect not selected.

O., Cleveland — Commercial and Garage —Realty Operating, c/o J. L. Falk, pres., Sloan Bldg., having plans prepared by G. A. Grieble, Sloan Bldg., 1 story, brick and steel, 7224 Euclid Ave. $150,000.

O., Cleveland—Storage—Neal Fireproof Storage Co., A. W. Neal, pres., 7208 Euclid Ave., had plans prepared by Christian, Schwarzenberg & Gaeda, 1900 Euclid Bldg., 7 story and basement, rein.-con. and brick, Detroit Ave. $250,000.

O., Cleveland—Welfare—Willard Storage Battery Co., c/o T. H. Voth, constr. engr., East 131st St., had plans prepared 2 story and basement, 30 x 200 ft., brick and concrete, East 131st St. and St. Clair Ave. $150,000. Private plans.

O., Cleveland Heights (Warrensville P. O.) — Orphanage, etc.—Jewish Orphan Home, c/o E. Joseph, 705 Union Trust Bldg., Cleveland, having plans prepared by Morris & Weinberg, 3608 Euclid Ave., Cleveland, group of 1 and 2 story, brick, steel and stucco buildings, incl. 14 cottages, administration, chapel, recreation, power house, service and garage buildings, Fairmount Rd., east of Belvoir Blvd. $1,500,000.

O., Columbus—Sales and Office—S. S. Kresge Co., Kresge Bldg., Detroit, Mich., plans 4-story and basement, 62½ x 187½ ft., rein.-con. and brick, State and High Sts. $175,000. Engineer and architect not selected.

O., Columbus—Store—Fashion Co., High and State Sts., having sketches made 4-story and basement, 40 x 187½ ft., rein.-con. and brick, High St. $200,000. Engineer and architect not selected.

O., East Cleveland (Cleveland P. O.)—Home—A. M. McGregor Home for Aged Men & Women, W. S. Adams, Plain Dealer Bldg., Cleveland, having plans prepared by C. Schneider, 2258 Euclid Ave., Cleveland, 3 story, brick and steel, Terrace and Lee Rds., here. $300,000.

O., East Cleveland (Cleveland P. O.)—Store and Apartment—S. Newman, 10710 Drexel Ave., having plans prepared by A. F. Jannowitz, 811 Prospect Ave., Cleveland, 3 story brick and timber, Euclid and Wymore Aves. $150,000.

O., Massillon—Hotel—Droughard Bros. having plans prepared by Albrecht, Wilhelm & Kelly, 1836 Euclid Ave., Cleveland, 4 story and basement, 50 x 120 ft., brick and steel hotel. $150,000.

O., Youngstown — Mercantile — Strouss-Hirshberg Co. takes bids in spring of 1926, 6 story and basement, 119 x 300 ft., steel and brick, Federal St. $500,000.

Ind., Indianapolis—Hotel and Garage—E. G. Spink, Hume-Mansur Bldg., having plans prepared 8 story and basement, rein.-con., brick and steel hotel and garage, Meridian St. $3,500,000. Private plans.

Mich., Detroit—Apartment—Janke, Verman & Krecke, archts., 612 Bway., Central Bldg., take bids about Apr. 1, 11 story and basement, 129 x 150 ft., rein.-con., brick and steel, plain foundation, Parker and Agnew Aves., for Chippewa Apartment Co., 1130 Parker Ave. Noted Feb. 19.

Mich., Detroit—Church—Redeemer Presbyterian Church, c/o G. D. Mason & Co., archts., 80 Griswold St., having plans prepared 2 story and basement, 100x120 ft., rein.-con., brick and steel, plain foundation, West Grand Blvd. $150,000. W. H. Adams, 504 Hoffman Bldg., engr.

Mich., Detroit—Church—Woodward Ave. Christian Church, 1222 Glynn Court, plans 2 story and basement, rein.-con., brick and steel, plain foundation, Woodward and Josephine Aves. $200,000. Engineer and architect not selected.

Mich., Detroit—Hotel—Salvation Army, 2nd and Michigan Aves., plans 3 story and basement, 75 x 100 ft., and 50 x 100 ft., brick and timber, plain foundation, Howard and 6th Sts. $150,000. Engineer and architect's names withheld.

Mich., Detroit—Mercantile—Ernst Kern Co., 1030 Woodward Ave., having preliminary plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., 10 story and basement, about 80 x 100 ft., rein.-con., brick and steel addition, Woodward Ave.

Mich., Detroit—Office—Whitney Estate, 1835 David Whitney Bldg., plans 25 story and basement, approximately 100 x 120 ft., rein.-con., brick and steel, Madison and Witherell Sts. Engineer and architect's names withheld.

Mich., Highland Park (Detroit P. O.)—School—Bd. Educ. had plans prepared by Burrowes & Eurich, 3633 Cass Ave., Detroit, Stevens School, 2 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, Buena Vista Ave. $250,000.

Mich., Marquette — High School — Bd. Educ., W. M. Whitman, supt., having plans prepared by J. D. Chubb, 109 Dearborn St., Chicago, 3 story and basement, brick, tile and concrete high school, plain foundation. $475,000 bonds voted.

Ill., Rock Island—Hotel—Fort Armstrong Hotel Co., c/o H. H. Cleveland, Robinson Bldg., having preliminary plans prepared by Nicol, Scholer & Hoffman Co., La Fayette, Ind., 4 story and basement, 120 x 120 ft., rein.-con., brick and stone.

Ill., Wilmette—Church—St. Josephs Roman Catholic Church, c/o W. Netstreater, pastor, 1767 Lake Ave., takes bids in summer 2 story and basement, rein.-con., Lake and Ridge Aves. $150,000. H. G. Gaul, 228 East Superior St., Chicago, archt.

Wis., Cedarburg — Church — Immanuel Lutheran Congregation, c/o W. Behrens, pastor, having plans prepared by H. H. Bruns, 845 26th St., Milwaukee, 2 story, 60 x 118 ft., brick and stone church, plain foundation. $150,000.

Buildings—Commercial (Continued)

Wis., De Pere—High School—Bd. Educ., c/o E. L. Wilson, secy., School Dist. No. 1, soon takes bids 2 story and basement, brick and tile, plain foundation. $160,000. C. C. Reynolds, Dempsey Blk., Manitowoc, archt. Noted Dec. 4.

Wis., Kenosha — Clubhouse — Kenosha Lodge 286, Loyal Order of Moose, 406 Market St., having sketches made 3 story and basement, brick, tile and concrete clubhouse. $200,000. J. Goldstein, 163 Main St., chn. building com. Engineer and architect not selected.

Wis., Milwaukee—Apartment—Goodsitt & Helfaer, 4609 North Ave., having preliminary plans prepared by J. Topzant, 144 Oneida St., 3 story and basement, brick and tile, plain foundation, west side. $150,000.

Wis., Milwaukee—Apartment—Miramar Apartment Co., c/o E. G. Schroeder Co., archts., 405 Bway., having plans prepared twin apartments each 3 story and basement, 47 x 102 ft., brick and tile, plain foundation, 21st St. Total $150,000.

Wis., Milwaukee—Garage—E. W. Clark Motor Co., 456 Jackson St., had plans prepared by Buemming & Guth, 521 Jackson St., 3 story and basement, 95 x 120 ft., brick, steel and concrete, plain foundation, Ogden Ave. $150,000. Noted Oct. 23.

Wis., Milwaukee—Theatre—Keystone Investment Co., 1728 Green Bay Ave., having preliminary plans prepared by G. Kahn, 141 Wisconsin St., 2 story and basement, rein.-con. and brick, plain foundation, Fond du lac Ave. $200,000.

Wis., Milwaukee — Theatre — Badger Building Serv., 445 Milwaukee St., having plans prepared by Peacock & Frank, 445 Milwaukee St., 2 story and basement, 72 x 125 ft., brick, tile and concrete, plain foundation, Delaware Ave. $150,000.

Wis., Milwaukee—Theatre and Business—Center Realty Co., c/o R. B. Williamson, archt., 508 Bway., having plans prepared 2 story and basement, 90 x 120 ft., brick and concrete, plain foundation, Center St. $200,000.

Wis., Milwaukee—Theatre and Business—J. Goldman, 510 Mitchell St. and H. Goldman, 106 North Washington St., Green Bay, having plans prepared by H. J. Selmer Co., McCartnery Bank Bldg., Green Bay, 2 story and basement, 82 x 150 ft., brick and concrete, plain foundation, Atwater Rd. $275,000. Noted Dec. 25.

Wis., Milwaukee—Theatre and Business—J. H. Silliman, 571 Downer Ave., having plans prepared by M. Tullgren & Sons, 425 East Water St., 1 and 2 story, 102 x 200 ft, brick and concrete, plain foundation, Teutonia Ave. $175,000.

Wis., Milwaukee—Theatre and Recreation—Reuther Realty Service, 229 Center St., having plans prepared by A. W. Hoffmann, 290 3rd St., 4 story and basement, 130x152 ft., concrete and brick, plain foundation, 3rd St. $300,000.

Wis., Milwaukee—Warehouse—Coakley Bros., 163 West Water St., having preliminary plans prepared by G. S. Kingsley, 109 North Dearborn St., Chicago, Ill., brick and concrete, plain foundation, Prospect Ave. $150,000.

Wis., Racine—Arcade—D. S. Komiss, 301 South State St., Chicago, Ill., had plans prepared by K. M. Vitzthum & Co., 615 North Michigan Ave., Chicago, Ill., 3 and 5 story, 100 x 300 ft., rein.-con. and terra cotta, top addition. $250,000.

Wis., Racine—Hotel—Racine Hotel Co., L. Fowler, 1015 College Ave., having plans prepared by Fugard & Knapp, 219 East Superior St., Chicago, Ill., brick and concrete, plain foundation, Main St. $1,000,000.

Ia., Cedar Rapids—Coliseum—Committee of Citizens having preliminary plans prepared by Cedar Rapids Society of Engineers and Architects, c/o W. J. Brown, Amer. Trust Bldg., 2 or 3 story and basement, rein.-con., brick and stone. $700,000. Noted Mar. 5.

Ia., Des Moines—Temple—Sa Ga Zig Lodge, A. A. O. N. M. S., c/o H. Harter, 702 South 6th St., having plans prepared by Sawyer & Watrous, 401 Hippee Bldg., 12 story and basement, rein.-con., brick, steel and stone temple, contafning theatre, lodge rooms, etc., Pleasant St. between 8th and 9th Sts. $1,000,000. Noted Sept. 25.

Minn., Eveleth—School—Bd. Educ., W. S. King, clk., plans 2 story and basement, rein.-con., brick and stone addition and remodeling school, here. $200,000. Engineer and architect not selected.

Minn., Faribault—School—Immaculate Conception Parish, having plans prepared by Jacobson & Jacobson, 450 Northwestern Natl. Life Bldg., Minneapolis, 2 or 3 story and basement, rein.-con., brick school. $150,000.

Minn., Fergus Falls—School—Bd. Educ., W. Lincoln, clk., having plans prepared by Dennis & Knowles, Fergus Falls, 2 or 3 story, rein.-con. and brick addition, here. $150,000.

Minn., Minneapolis—Dormitory—Y. W. C. A., M. H. Paige, pres., 25 Dell Pl., plans 3 story and basement, rein.-con., brick and stone, 18th St. and 2nd Ave. S. $150,000. Engineer and architect not annonuced.

Minn., Minneapolis — Office — Northern States Power Co., c/o R. F. Pack, 15 South 5th St., plans 7 story and basement, rein.-con. addition. $300,000. Engineer and architect not announced.

Minn., St. Cloud—Hospital—St. Raphael's Hospital, c/o Sisters of St. Benedict, St. Joseph, plans 3 or 4 story and basement, rein.-con., brick and stone, near Hester Park. $375,000. Engineer and architect not selected.

Kan., Atchison — Hotel — Chamber of Commerce, Masonic Temple, R. Willite, genl. mgr., having plans prepared by E. J. Lawhon Constr. Co., 905 Edmund St., St. Joseph, Mo., 4 story and basement, L shape, 79 x 183 ft., concrete, brick, stone and terra cotta. $200,000. Noted Dec. 18.

Kan., Kansas City—Nurses' Home—Kansas State School of Medicine having plans prepared by C. M. Rouldridge, state archt., Topeka, nurses' home and addition. $705,000.

Kan., Kansas City—School—Bd. Educ. having preliminary plans prepared by Rose & Peterson, 442 Brotherhood Bldg., 3 story, concrete, brick and stone school for Rosedale Dist., 36th and Springfield Sts. To exceed $150,000.

Kan., Manhattan — Library — Kansas State Agricultural College having plans prepared by C. M. Routledge, Topeka, library, here. $300,000. Noted Dec. 18.

Kan., Ottawa—Commons—Ottawa University plans commons building. $500,000. Engineer and architect not selected.

Kan., Pittsburg—Hotel—St. Louis Hotel Syndicate, St. Louis, Mo., having plans prepared by C. G. Schoelch & Co., Syndicate Trust Bldg., St. Louis, Mo., 6 story and basement, L shape, East 4th and Locust Sts., here. $300,000.

Neb., Crete—College—Doane College, E. B. Doane, pres., plans 2 and 3 story college. $500,000 or more. Engineer and architect not selected.

Neb., Falls City—High School—Election in April $250,000 bonds for brick and concrete Senior High School, for Bd. Educ., c/o F. Brecht, secy. Engineer and architect not selected.

Neb., Lincoln—High School—Bd. Educ., c/o J. G. Ludlam, secy., soon takes bids Clinton High School, 2 story and basement, rein.-con., brick and stone, 29th and Holdrege Sts. $250,000. Fiske, Meginnis & Schaumburg, 533 Bankers Life Bldg., archts. Noted Jan. 15.

North Dakota—Prison, etc.—State Bd. Administation, E. G. Wanner, secy., Bismarck, plans 3 story state prison in Bismarck, $200,000, and 3 story Institute for feeble minded in Grafton, $225,000, both, rein.-con. and brick.

S. D., Spearfish—School Normal School, c/o G. M. Blake, plans rebuilding 3 story and basement, rein.-con., brick and stone school, destroyed by fire. $250,000. Engineer and architect not announced.

Mo., Clayton—Court House, etc.—St. Louis Co., c/o County Court, election Apr. 7, $715,000 bonds, 2 story and basement, court and jail, on Square. Klipstein & Rathmann, Chemical Bldg., St. Louis, archts.

Mo., Kansas City—Church—Sixth Church of Christ Science soon takes bids 2 story and basement, 106 x 110 ft., native and cut stone. $225,000. C. A. Smith, 800 Finance Bldg., archt.

Mo., Kansas City—Hotel—R. T. Collins, 1600 Grand Ave., having plans prepared by G. B. Post & Son, 1003 Pioneer Bldg., 5 story and basement, stucco, hollow tile and rein.-con., Mill Creek Blvd. $850,000.

Mo., Kansas City—Hotel—C. O. Jones, 400 Continental Bldg., having plans prepared by W. J. De Foe, 1704 Baltimore St., 7 story and basement, 63 x 70 ft., brick, rein.-con. and terra cotta.

Mo., Kansas City—Hotel—D. L. Kelley, Bonfils Bldg., having plans prepared by E. C. Farris, 3838 Main St., 7 story and basement, 80 x 175 ft., rein.-con., plain foundation, 46th and Main Sts.

Mo., Kansas City—Hotel—C. E. Phillips, 609 Victor Bldg., having plans prepared by N. E. Peters, 1006 Orear-Leslie Bldg., 5 story and basement, 72 x 122 ft., rein.-con. and brick hotel. To exceed $150,000.

Mo., Kansas City—Theatre and Shop—J. C. Nichols Investment Co., 911 Commerce Bldg., having plans prepared by E. B. Delk, Meyer Blvd. and Ward Parkway, 2 story and basement, 125 x 300 ft., probably timber theatre and shop building. Noted Mar. 5.

Mo., St. Joseph — Hospital — Bd. Pub. Wks., having preliminary plans prepared by E. R. Meier, Lincoln Bldg., isolation hospital. $150,000.

Mo., St. Louis—Apartment—F. L. Dittmeier Real Estate Co., 624 Chestnut St., having preliminary plans prepared 3 story and basement, rein.-con., brick and stone, Kingshighway and Aldine St. $225,000. Private plans.

Mo., St. Louis—Club—St. Louis Club, c/o W. F. Carter, Boatmen's Bank Bldg., plans 3 or more story and basement on site 200 x 216 ft., rein.-con., brick and stone, Maryland St. and Kingshighway. $500,000. Architect and engineer not selected.

Mo., St. Louis — Office and Lodge — Knights of Pythias, c/o St. Louis Lodge Deputies Assn., having preliminary plans prepared 10 story and basement, rein.-con. brick, stone and steel office and lodge building with clubrooms, gymnasium, swimming pool, etc., Grand and Olive Sts. Engineer and architect not announced.

Mo., St. Louis—Office—Local Syndicate, c/o Wenzlick Realty Co., 1010 Chestnut St., making preliminary plans 12 story and basement, rein.-con., brick, stone and steel, 11th and Chestnut Sts. $1,000,000. Private plans.

Ark., Lonoke—Court House and Jail—Lonoke Co. Court House Comn. takes bids about May 1, 3 story, concrete and stone court house and jail. $150,000. H. R. Burks, Southern Trust Bldg., Little Rock, archts. Noted Nov. 27.

Tex., Breckenridge—Courthouse and Jail—Stephens Co., J. W. Hill, judge, having plans prepared by D. S. Castle, 26-31 Radford Bldg., Abilene, 3 story and basement, brick, stone and rein.-con. courthouse and jail. $300,000. Noted Dec. 18.

Tex., Corpus Christi — Bank — Owner, c/o C. Pease, pres., had plans prepared by R. H. Cameron, City Natl. Bank Bldg., San Antonio, remodeling and constructing 6 story, rein.-con. and brick addition, plain and concrete pile foundation. $150,000.

Tex., Corpus Christi—Office—City Natl. Bank soon takes bids 6 story brick, stone, concrete and steel addition, plain foundation. $150,000. R. H. Cameron, 1116 City Natl. Bank Bldg., San Antonio, engr. and archt.

Tex., Dallas — Apartment — Thomas & Swaine, archts., Southwestern Life Bldg., preparing plans 9 story and basement, rein.-con. and brick, Turtle Creek Blvd. $750,000. Owner's name withheld.

Tex., Dallas — Church — City Temple Presbyterian Church Congregation, North Akard and Patterson Sts., having plans prepared by R. H. Hunt & Co., Southwestern Life Bldg., steel, brick, terra cotta and stone, plain foundation. $2,000,000. L. D. Young, pastor.

Tex., Dallas—Hall—Klan 66, c/o E. H. Silven, 2013½ Young St., plans klan hall, 8,500 seating capacity. Engineer and architect not selected.

Tex., Ft. Worth—Music Hall—Owner, c/o L. R. Scarabourough, Seminary Hall, having plans prepared by Sanguinett, Staats & Hedrick, 1st Natl. Bldg., 3 story and basement, brick, stone, rein.-con. and tile, etc., music hall. $300,000.

Tex., Hereford — High School — Plans election $150,000 bonds for new high school, for Bd. Educ., c/o Secretary. Engineer and architect not announced.

Tex., Kernes—Hotel—E. Navarro, c/o Chamber of Commerce, plans 4 story and basement, 90 x 100 ft., rein.-con., brick and stone, plain foundation. $150,000. Engineer and architect not selected.

Tex., Mineral Wells—Hotel—Webb & Co. plans rebuilding hotel, recently destroyed by fire. $750,000. S. Webb, Mineral Wells, pres. Engineer and architect not selected.

Tex., Port Arthur—Church—First Presbyterian Church Congregation and Livesay & Wiedeman, archts., Beaumont, soon take bids 2 story and basement, 50 x 80 ft., steel, stone and brick, Mobile St. $150,000.

Tex., San Angelo — Hospital — City and Baptist Church, G. W. McCall, pastor, raising $150,000 funds, 3 story and basement, rein.-con., brick and stone, plain foundation. Engineer and architect not selected.

Tex., San Antonio—Orphanage—Protestant Orphans Home, A. E. Chittim, chn. bldg. com., Milton and Eldon Sts., having plans prepared by Adams & Adams, 517

Buildings—Commercial (Continued)

Gibbs Bldg., 3 story, brick, stone and rein.-con., Bandera Rd. $250,000.

Tex., San Benito—Hotel—San Benito Hotel Co. plans 4 story and basement, rein.-con., brick and stone, plain foundation. $150,000. Engineer and architect not announced.

Tex., San Marcos—Administration—San Marcos Baptist Academy raising funds 3 story and basement, stone, brick and concrete. J. B. Brown, pres. Engineer and architect not selected.

Tex., Temple—Hotel—J. Cole plans 5 or more story and basement, rein.-con., brick and stone, plain foundation. Engineer and architect to be selected soon.

Tex., Wichita Falls—Office—Sanguinett, Staats & Hedrick, archts., 1st Natl. Bank Bldg., prepared plans and soon take bids 6 story and basement, 100 x 150 ft., rein.-con., concrete, tile, etc., here, for C. W. Snider, & J. J. Perkins, City Natl. Bank Bldg. $400,000.

Okla., Alva — Hotel — Chamber of Commerce, W. W. Starr, pres., having preliminary plans prepared by Reyburn Eng. & Constr. Co., archts. and engrs., 609 Waldheim Bldg., 6 story and basement, 42 x 74 ft., rein.-con. and brick. $150,000.

Okla., Blackwell—Office and Store—W. A. McDaniel making preliminary plans 4 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, East Blackwell and A Aves. $175,000. Enginere and architec tnot selected.

Okla., Enid—Church—First Presbyterian Congregation, c/o D. M. Diener, pastor, having plans prepared by R. Shaw, Masonic Temple, and takes bids about June 1, 1 and 2 story, rein.-con., brick and stone church and Sunday school building. $150,000.

Okla., Okmulgee — Church, etc. — St. Anthonys Parish, A. DeHasque, pastor, having preliminary plans prepared by Monnot & Reid, Elks Club Bldg., Oklahoma City, 1 story and basement, 58 x 160 ft., rein.-con., brick, hollow tile and stucco church, also 2 story and part basement, 40 x 62 ft. residence. $150,000. Noted Mar. 5.

Okla., Tulsa—Office—J. M. Gillette, 307 Commercial Bldg., had plans prepared by E. W. Saunders, Commercial Bldg., 8-story and basement, 90 x 95 ft., concrete, brick and steel. $450,000.

Colo., Denver—Church—Montview Blvd. Presbyterian Church. L. Lynch, chn. Building Com., 1965 Forrest St., having plans prepared by Hoyt & Hoyt, Colorado Natl. Bank Bldg., Montview Blvd., Dexter and Dahlia Sts. $200,000.

Colo., Denver—Seminary—Denver Diocese Catholic Church having plans prepared seminary, Louisiana and Cook Sts. $750,000. Engineer and architect not selected.

Wash., Seattle—Church—Trustees University Christian Church take bids about May 3, 2 story and basement, 92 x 200 ft. church, incl. large auditorium, recreation rooms, dining halls, pastor's study and school rooms, 15th Ave. N. E. and East 50th St. $300,000. R. H. Orr, Los Angeles, represented here by C. A. Page, Bigelow Bldg., archt.

Ore., Ashland — Normal School — State Legislature passed bill allowing $175,000 for state normal school, here.

Ore., Portland—Hotel—L. A. Phillips, c/o Pacific Mutual Life Insurance Co., Wilcox Bldg., Los Angeles, Calif., plans hotel, 5th, Taylor, 6th and Salmon Sts., here. $2,000,000.

Calif., Los Angeles—Apartment—H. D. Thornburg, 6381 Hollywood Blvd., had plans prepared 4 story and basement, 90 x 125 ft., brick, Las Palmas Ave. $150,000. Private pans.

Calif., Los Angeles—Church and Sunday School—Thirteenth Church of Christ Scientist, having plans prepared by Allison & Allison, 1405 Hibernian Bldg., 1 story, 100 x 150 ft., rein.-con., brick and steel church, Edgemont Blvd. near Hollywood Blvd. $200,000, and Sunday School, erected at later date, $150,000. Noted Oct. 23.

Calif., Los Angeles—Hotel—Carthay Center Holding Corp., c/o H. W. Bishop, archt., 6328 Eulalia Blvd., had preliminary plans prepared 90 x 220 ft. timber hotel, Carthay Center.

Calif., Los Angeles—Store and Theatre—Carthay Center Holding Corp., c/o A. B. Rosenthal, archt., Hillstreet Bldg., having preliminary plans prepared 150 x 155 ft., rein.-con. store and theatre building, Carthay Center.

Calif., Los Angeles — Theatre — G. A. Lansburgh, archt., 700 Hillstreet Bldg., takes bids about Mar. 16, 6 story and basement, 124 x 175 ft., rein.-con. and steel, Hollywood Blvd., for C. E. Toberman, 6363 Hollywood Blvd. Noted Nov. 27.

Calif., Pasadena—School—Bd. Educ. had plans prepared by C. J. Bennett & F. H. Haskell, 600 Security Bldg., (1st unit), 200 x 220 ft., brick and timber, elementary school and auditorium, Madison Ave. $160,000.

Calif., Patton—Hospital—State Hospital Comn., Sacramento, plans remodeling and constructing 2 two story rein.-con. wing addition, also new sewage disposal system. $235,000.

Calif., Sacramento—Apartment—F. W. Quandt, archt., Humboldt Bank Bldg., San Francisco, preparing preliminary plans 6 story and basement, community apartment, rein.-con., facing State Capitol. Owner's name withheld.

Calif., San Francisco — Apartment — B. Lowe, 200 Davis St., had plans prepared by Baumann & Jose, 251 Kearny St., 6 story and basement, brick and steel, Stockton and Pine Sts. $160,000.

Calif., San Francisco—Exchange—Pacific Telephone & Telegraph Co., 333 Grant Ave., plans 3 story, steel, brick and concrete annex, London St. and Russia Ave. $150,000.

Calif., San Francisco—Hotel-Apartment—E. V. Lacey & J. Greenbach, 180 Jessie St., having plans prepared by C. O. Clausen, Hearst Bldg., 10 story and basement, steel and concrete, Leavenworth St. To exceed $150,000.

Calif., San Francisco—Office and Bank—Bank of Italy, Eddy and Powell Sts., plans 8 or more story, fireproof office and bank building, Market and McAllister Sts. To exceed $150,000.

Calif., San Francisco—Store—Lachman Bros., 2047 Mission St., having plans prepared by S. Heiman, 57 Post St., 6 story and basement, brick and concrete, 16th St. near Mission St. $150,000.

Calif., San Fernando—Theatre—J. T. Rennie & Son having preliminary plans prepared by E. J. Borgmeyer, California Bldg., Los Angeles, 2 story and basement, 100 x 140 ft. brick theatre, 1,200 seating capacity, North Maclay Ave.

Calif., Sunnyvale—High School—West Side Union High School Dist. having plans prepared by W. H. Weeks, 369 Pine St., San Francisco, group fireproof high school buildings. $250,000 bonds voted.

Que., Fontainebleau — Church — Roman Catholic Church, A. Boucher, pastor, plans church. $150,000. Engineer and architects names withheld.

Que., Quebec — College — Brothers of Christian Doctrine, Quebec, having plans prepared by Bergeron & Lemay, Quebec, 5 story, 60 x 300 ft. college, St. Foye Ave. $300,000.

Ont., Ottawa—Garage—G. P. and K. Davidson & A. E. Dyment, Ottawa, plan 1 story and basement, 66 x 108 ft., rein.-con. and brick, plain foundation, Queens St. $150,000.

Ont., Ottawa — Hotel — G. P. and K. Davidson & A. E. Dyment, Ottawa, plan rebuilding 6 story and basement, 90 x 106 ft. hotel, Sparks St., destroyed by fire. $300,000.

Ont., Toronto—School—Bd. Educ., 155 College St., having plans prepared by C. Dyson, 155 College St., archt., 2 story and basement, brick, tile, stone, concrete and steel addition to Earl Haig Public School. $150,000.

H. T., Honolulu — Club and Hotel — Y. W. C. A. having plans prepared by J. Morgan, Merchants Exch. Bldg., San Francisco, Calif., 3 story and basement, rein.-con. club and hotel building. $250,000.

BIDS DESIRED

Mass., Boston—Garage—J. M. Howe, 10 State St., taking bids 6 story, 140 x 180 ft., rein.-con., brick and steel, plain foundation, Cambridge and Green Sts. $1,500,000. R. H. Doane, 162 Newbury St., archt. Noted Mar. 5.

Mass., Boston — Warehouse — Morgan Memorial Corp., 89 Shawmut Ave., F. S. Moore, treas., taking bids 7 story and basement, brick, plain foundation, 36-44 Kirkland St. $150,000-$175,000. W. M. Bailey Co., 88 Broad St., archts. Noted Feb. 26.

Mass., Cambridge (Boston P. O.) — Apartment—Kanter & Steinberg, 220 Warren St., Brookline, will build 3 story and basement, 18,000 sq.ft. floor space, brick and stone, plain foundation, Crawford St. and Chapin Park, here. $360,000. Work will be done by separate contracts. Silverman, Brown & Heenan, 51 Cornhill St., Boston, archts.

Mass., Cambridge (Boston P. O.)—Store and Apartment—W. A. Riley, archt., 77 Summer St., Dorchester, taking bids 2 story and basement, 75 x 140 ft., rein.-con., brick and limestone, plain foundation, Massachusetts Ave. $175,000. Owner's name withheld.

Mass., Gloucester—Church—St. Anthony's Roman Catholic Church Society taking bids 1 story and basement, rein.-con. and stone, plain foundation, Louis and Farrington Sts. $160,000. E. T. P. Graham, 171 Newbury St., Boston, archt.

Mass., Melrose — Memorial — City c/o T. J. Edward, chn. comn., taking bids 3 story and basement, rein.-con., brick and steel, addition to Soldiers and Sailors Memorial building, plain foundaion, $150,000. J. R. Worcester & Co., 79 Milk St., Boston, engr. and G. F. Newton, 6 Beacon St., Boston, archt.

Mass., Pittsfield—Store and Office—Eagle Publishing Co., Eagle St., taking bids 3 story and basement, 60 x 95 ft., rein.-con. and steel, plain foundation, Eagle St. $150,000. G. E. Haynes Co., 184 North St., archts.

Mass., Williamstown—Fraternity—Apr. 1, by Psi Upsilon Fraternity, Williams College, 3 story and basement, brick fraternity house, $150,000. Andrews, Jones, Biscoe & Whitmore, 50 Congress St., Boston, archts. Noted Feb. 19.

R. I., Pawtucket — High School—School Dept., City Hall, taking bids 3 story and basement, brick and steel, plain foundation, Exchange St. $250,000. R. C. N. Monahan, 255 Main St., archt. Noted Nov. 20.

R. I., Phoenix—School—School Com. taking bids 2 story and basement, rein.-con. and brick school. $150,000. W. F. Fontaine, 285 Main St., Woonsocket, archts.

R. I., Providence—Business—T. O'Gorman, c/o Rich, Bigelow & Tirell, archts., 333 Washington St., Boston, Mass., taking bids 6 story, brick, terra cotta and steel, Eddy and Westminster Sts. $150,000.

R. I., Providence—Store and Office—T. A. O'Gorman, c/o H. R. Hunt, archt., Westminster St., taking bids 6 story and basement, rein.-con. and brick, Westminster and Eddy Sts. To exceed $150,000.

Conn., New Haven—Apartment—J. Heller, 33 Cottage St., taking bids 3 story and basement, 70 x 80 ft., brick and stone, plain foundation, Edgewood and Sherman Aves., $175,000. C. H. Abramowitz, 42 Church St., New Haven, archt.

Conn., Stonington—School—Mar. 25, by W. T. Arnold, archt., 32 West Main St., Meriden, 2 story and basement, brick and stone, school, here, for Bd. Educ. $150,000.

N. Y., Brooklyn—Reception—Apr. 8, by State Hospital Comn., Albany, addition to Reception Building, at Brooklyn State Hospital, here. S. W. Jones, state archt.; adv. E. N.-R. Mar. 19.

Pa., Chester—Warehouse—Mar. 23, by C. E. Wunder, archt., 1520 Locust St., Phila., 5 story and basement, 101 x 126 ft., rein.-con. and brick, plain foundation, for W. E. Headley Co., 5th and Upland Sts. $350,000.

Pa., Harrisburg—High School—Apr. 13, by Bd. Directors School Dist., D. D. Hammelbaugh, secy., William Penn High School, 2 story and basement, 332 x 777 ft., brick or stone, containing academic unit, cafeteria, shop units, auditorium and gymnasium, etc., Market St. $1,000,000. E. Sibley, Harrisburg, consult. archt.

Pa., Johnstown — Church — Memorial Baptist Church, Vine St., B. A. Fisher, pastor, taking bids and opens same May 1, 2 story and basement, 90 x 100 ft., brick and steel, Vine St. $150,000. J. C. Fulton & Sons, Uniontown, archts.

O., Bowling Green—Library, etc.—Mar. 28, by State Bd. Trustees, Columbus, H. J. Johnston, secy., 3 story and basement, 75 x 150 ft., rein.-con. and brick library and recitation building, at Bowling Green State Normal School, here. $275,000. Hubert H. Briggs, Columbus, archt.

O., Cleveland Heights (Warrensville P. O.),—High School—Apr. 6, by Bd. Educ., W. G. Nesbit, dir., 1805 Lee Rd., Cleveland, 3 story and basement, brick, steel and concrete, Cedar & Lee Rds., $1,500,000. F. C. Warner and W. R. McCornack, Bulkley Bldg., Cleveland, archts. Noted Dec. 11.

O., Columbus—Office—Mar. 23, by Richards, McCarthy & Bulford, 584 East Broad St., 5 story and basement, rein.-con. and brick, Lexington and Broad Sts., for Ohio State Life Insurance Co., New 1st Natl. Bank Bldg., $250,000. Noted July 10.

O., Euclid—Schools—Apr. 11, by Bd. Educ., J. B. Clarke, clk., 1550 Chardon Rd., brick, steel and concrete school, Upson Rd., and additions to Noble, Roosevelt, Euclid Central and Shore High Schools. $500,000. Fuller & Taylor, 8120 Euclid Ave., Cleveland, archts. Noted Feb. 26.

Mich., Detroit—School—Mar. 16, by Bd. Educ., C. A. Gadd, bus. mgr., 1354 Broadway Ave., 2 story and part basement, rein.-con., brick, steel and stone, Emerson Ave. $175,000. Malcolmson & Higginbotham, 1217 Griswold St., archt.

Ill., Freeport—School—Mar. 31 (extended date), by E. Graham, secy. Bd. Educ. Dist. 145, Stephenson Co., 3 story and basement, 150 x 300 ft., rein.-con. and stone. $450,000. Royer, Danely & Smith, Urbana, archts. Noted Feb. 5.

Wis., Kenosha—Hospital—N. M. Dunning, archt., 310 South Wabash Ave.,

Buildings—Commercial (Continued)

Chicago, Ill., taking bids 5 story and basement, brick and concrete addition, plain foundation, here, for Kenosha Hospital Assn., 529 South Chicago St. $300,000. Noted Jan. 8.

Wis., Milwaukee—Apartment—Mar. 23, by M. Tullgren & Sons, archts., 425 East Water St., 8 story and basement, 102 x 200 ft., brick and concrete, plain foundation, Grand Ave., for Grand Manor Bldg. Corp., 216 West Water St. $500,000. Noted Feb. 19..

Wis., Milwaukee—Synagogue—Mar. 26, by H. H. Bruns, archt., 845 26th St., concrete work only for 2 and 1 story, 86 x 132 ft., brick and concrete, plain foundation, Teutonia Ave., for Beth Israel Congregation, c/o S. Michel, 175 Queen Ann Pl. $180,000. Noted Feb. 26.

Wis., Wauwatosa—Club House—Kirchhoff & Rose, archts., 210 Sycamore St., Milwaukee, taking bids 2 story and basement, 225 ft. long, stone and concrete, plain foundation, Burleigh Rd., for Blue Mound Country Club, c/o G. F. Gregg, secy., 437 South Water St. $150,000.

Minn., Minneapolis — Auditorium — Apr. 20, by City Council, Auditorium Com., J. Peterson, chn., City Hall, 5 story and basement, 230 x 540 ft., rein.-con., steel, brick and stone, 3rd and Stevens Aves., 14th and Grant Sts. $2,500,000. Croft & Boerner, 1006 Marquette Ave., archts. Noted Dec. 11.

Tex., Corpus Christi—Bank—Mar. 25, by R. H. Cameron, archt. and engr., City Natl. Bank Bldg., San Antonio, 6 story, rein.-con. and brick addition, for City Natl. Bank, here. $150,000. Noted Mar. 2.

Tex., New Braunfels—Hotel—H. Landa, taking bids 7 story and basement, 62 x 110 ft., brick, rein.-con., hollow tile and stucco, plain foundation. $150,000. H. T. Phelps, Hicks Bldg., San Antonio, engr. and archt.

Tex., San Antonio—Bank—Apr. 7, by Phelps & DeWees, archts. and engrs., c/o Gunter Bldg., 1 story (4 story high) and part basement, 62 x 111 ft., rein.-con., stone and part steel, plain foundation, Travis and St. Marys Sts., for Commercial Natl. Bank & Commercial Loan Trust Co. $175,000. Noted Feb. 19.

Tex., Wichita Falls—Hospital—Apr. 1, by Voelcker & Dixon, archts., 312 Morgan Bldg., 4 story, 60 x 168 ft., brick, stone and rein.-con., Bluff St. from 7th to 8th Sts., for Owner, c/o A. B. Lee, doctor, Wichita Falls. $200,000.

Calif., Oakland—School—Mar. 24, by Bd. Educ., fireproof, Cole Elementary School. $200,000. Architectural Dept. Bd. Educ., City Hall, archts. Noted Nov. 23.

Ont., Kingston—Medical—Mar. 20, by W. E. McNeill, registrar, Queens University, new medical building. $200,000. T. R. P. Power, Brock St., associated archt.

Ont., Toronto—Nurses' Home—Mar. 31, by E. J. Lennox & Son, archts., 364 Bay St., 4 story and basement, 60 x 80 ft., rein.-con. and tile, plain foundation, Dunn Ave., for City. $150,000.

BIDS RECEIVED

Me., Biddeford — High School — School Comn., Town Hall, 3 story and basement, 70 x 100 ft., and 70 x 112 ft., brick and steel, plain foundation, from J. A. Benoit, Biddeford, $127,568. Archts. est. $200,000. Noted Mar. 5.

Mass., Maynard—High School—Superintendent Schools, 2 story and basement, brick and high school, from T. P. Hurley, Marlboro, $121,000. Noted Dec. 4.

Mass., Newtonville (Ind. Br. Boston)—City of Newton, H. Fitts, city chn., City Hall, 3 story and basement, brick and stone, plain foundation, Elm Rd. and Walnut St., here, from J. P. Keating Co., 80 Boylston St., Boston, $565,400; heating, from Lynch & Woodward, 202 Harrison Ave., Boston, $67,500; plumbing, from R. H. Baker Co., 304 Main St., Cambridge, $30,357. Noted Mar. 12.

Mass., West Springfield (Springfield P. O.)—School—City of Springfield, 16 room, brick, Kings Highway, here, from J. L. Shea, Springfield, $119,445. Noted Feb. 26.

N. J., Asbury Park—Store, Pavilion, etc. —City Com., Mar. 10, stores and pavilions along boardwalk between 7th and 8th Aves., also group of bathhouses between Sunset and 6th Aves., from H. Steelman Constr. Co., Asbury Park, $152,000 and $170,500 respectively. Noted Mar. 5.

Md., Baltimore—School—Bd. Awards, 1 story and basement, brick, plain foundation, Rokeby Rd., Glen Allen and Dryden Drives, from H. L. Mass & Son, Munsey Bldg., $154,500. Noted Feb. 26.

O., Fairview—School—Bd. Educ., R. P. Jordan, clk., 2 story and basement, 76 x 168 ft., brick, steel and concrete, from R. S. Ursprung, Beckman Bldg., Cleveland, $117,834. Archts. est. $200,000. Noted Feb. 19.

O., Shaker Heights (Cleveland P. O.)—Schools—Bd. Educ., J. W. Main, clk., 2 story and basement, brick, steel and concrete, at Drexmore Rd., from Alexander Bros., Williamson Bldg., $393,896, and 2 story, 9 room brick, steel and concrete addition to Boulevard School, from Schrader Constr. Co., Euclid-46th Market Bldg., Cleveland, $136,231. Noted Oct. 2.

Ill., Edwardsville—Sanitarium—Madison Co., Mar. 9, general contract 2 and 3 story, concrete and brick sanitarium, from W. G. Kuhne, Rantoul, $118,166. Noted Feb. 19.

CONTRACTS AWARDED

Mass., Boston—Apartment—Sixty-Five Commonwealth Ave. Trust, c/o McLaughlin & Burr, archts., 88 Tremont St., 7 story and basement, 60 x 105 ft., brick and limestone, plain foundation, 65 Commonwealth Ave., to Turner Constr. Co., 178 Tremont St. Archts. est. $300,000. Noted Mar. 5.

Mass., Boston—Garage—H. M. Haven & L. T. Hopkins, Inc., archts., 11 Beacon St., 8 story and basement, 130 x 150 ft., rein.-con. and steel, plain foundation, Beach St. between Washington St. and Harrison Ave., to Pultz, Inc., 173 Milk St., Boston, for Jordan Marsh & Co., Washington St. Archts. est. $500,000. Noted Jan. 29.

Mass., Brighton (Boston P. O.) — Business School — Harvard University, Cambridge, group 3 story and basement, 600 x 600 ft., brick buildings, Western Ave., Harvard and North Harvard Sts., here, to Hegeman Harris Co., 360 Madison Ave., New York City. Archts. est. $5,000,000. Noted Jan. 15 under "Cambridge."

Mass., Holyoke — Church — Holy Cross Parish, general contract 1 story, 55 x 100 ft., and 55 x 105 ft., brick and stone, to D. O'Connell & Sons, Hampden St. Archts. est. $150,000.

Mass., Lowell—Apartment—A. Marshall, 79 Nesmith St., Lawrence, will build 4 story and basement, rein.-con. and brick, Hall St., by day labor. $150,000. Davis & Byan, Hildeth Building, archts.

Mass., Lowell—Apartments—I. J. Quinn, 140 Middlesex St., will build 4 story and basement, brick apartment and store, Middlesex St., by day labor. $150,000. Davis & Byam, Hildreth Bldg., archts.

Mass., Lynn—Apartment Hotel—Pythian Castle Assn., Market St., 3 story and basement, 100 x 170 ft., rein.-con., brick and tile, plain foundation, to C. S. Cunningham Constr. Co., 80 Boylston St., Boston. Archts. est. $250,000. Noted Feb. 12.

Mass., Pittsfield—Bank—Sweeney & Farrell Corp., c/o G. E. Haynes, archt., 184 North St., 4 story and basement, 50 x 125 ft., brick and steel, North St., to J. I. Hampson Co., Inc., 184 North St. Archts. est. $200,000. Noted Feb. 5.

Mass., Pittsfield — Y. M. C. A., brick and steel addition, to D. H. Pike, 30 Eagle St. Archts. est. $150,000. Noted Feb. 26.

Mass., Roxbury (Boston P. O.)—Mercantile—M. M. Kalman, archt., Old South Bldg., Boston, 3 story and basement, brick and stone, Washington St., here, to Rand Constr. Co., 10 Tremont St., Boston. Archts. est. $150,000. Owner's name withheld. E. C. Woodman Co., 2235 Washington St., lessee. Noted Feb. 26.

Mass., Somerville — Bank — Somerville Institute for Savings, c/o N. E. Reed, pres., 84 Bway., altering 2 story and basement, brick, limestone and steel, to G. C. Irwin, 96 West Brookline St., Boston. Noted Dec. 25.

Mass., Springfield—Store and Office—H. B. Robinson, Inc., 25 Harrison Ave., 3 story and basement, brick, to C. E. J. Pinney, Inc., 374 Main St. Archts. est. $180,000. Noted Feb. 5.

Mass., West Springfield (Springfield P. O.)—School—Bd. Selectmen, 2-story and basement, brick and steel, Kings Highway, to J. L. Shea, 36 Dartmouth St., Springfield. Archts. est. $150,000.

R. I., Providence — Convent — Blessed Sacrament Parish, W. A. Doran, pastor, 171 Academy Ave. 2 story and basement, brick, to Sullivan Constr. Co., 357 Westminster St. Archts. est. $150,000.

R. I., Providence—Dormitory—Brown Universit,y E. A. Burlingham, comptroller, Hegeman Dormitory, 4 story and basement, 35 x 105 ft., and 35 x 175 ft., brick and stone, plain foundation, George St., to L. B. Maguire Co., 507 Grosvenor Bldg. Archts. est. $250,000. Noted Feb. 12.

Conn., Bridgeport — Warehouse — Logan Bros., Housatonic Ave., 3 story and basement, 50 x 100 ft., rein.-con., Housatonic Ave. and Lumber St., to E. and F. Constr. Co., 94 Wells St. Archts. est. $150,000.

Conn., Hartford—Apartment and Store—S. Rogoff, 754 Asylum St., will build 4 story, 47 x 150 ft., brick and cast stone, Capen St., by day labor. $200,000. Berenson & Moses, 30 Allyn St., archts.

Conn., Hartford — Office — Connecticut Mutual Life Insurance Co., 36 Pearl St., 3 story and basement, 184 x 250 ft., brick, steel and stone, to H. C. Irons & Sons, 101 Park Ave., New York City.

N. Y., Jamaica—High School—Bd. Educ., 500 Park Ave., New York City, general contract Jamaica High School, here, to Lustbader Constr. Co., 423 Madison Ave., New York City, $2,083,980; plumbing, to T. E. O'Brien, Inc., 6311 5th Ave., Brooklyn, $123,480. Noted Feb. 26.

N. Y., Kingston—Hotel—Kingston Community Hotel Corp., 4 story, brick, steel and stone hotel, to J. G. White Eng. Corp., 43 Exch. Pl., New York City. Archts. est. $350,000. Noted July 31.

N. Y., New York—Armory—Armory Bd., Municipal Bldg., reconstructing Squadron A armory, Madison Ave. and 94th St., to M. Miller Constr. Co., 706 6th Ave., (A) $168,000 (B) $1,240. Noted Mar. 12.

New Jersey — Schools — Hopewell Twp. School Bd., Hopewell, 2 schools, one at Hopewell and other at Pennington, general contract to Griffith & Watkins, Ward Ave., Trenton, $103,788 and $81,068 respectively. Noted Feb. 5.

N. J., Camden—Bank—Land Title Guaranty Co., 432 Market St., 2 story and basement, 38 x 100 ft., brick and steel, plain foundation, 5th and Market Sts., to Cramp Co., Denckla Bldg., Phila., Pa. Noted Feb. 12.

N. J., Camden—Hospital—West Jersey Homeopathic Hospital, Frances Child Memorial Hospital, 5 story, brick and steel, Mt. Ephraim and Atlantic Aves., to H. J. Homan, Roger Williams Bldg., Phila. $200,000. Noted Nov. 20.

Pa., Highland Park (Phila. P. O.) — Church—St. Lawrence Parish, M. F. Crowl, pastor, 1 story and basement, 36 x 78 and 65 x 99 ft., stone and steel, plain foundation, to M. W. Young, 203 North 63rd St., Phila. $165,000.

Pa., Homestead—Theatre—J. E. Stahl, 207 8th Ave., general contract 2 story, mezzanine and basement, 110 x 135 ft., brick on hollow tile, 8th Ave., to Hodder Constr. Co., Talbot Ave., Braddock. Archts. est. $200,000.

Pa., Phila.—Church—St. Bridget Roman Catholic Church, W. J. Walsh, pastor, 1½ story and basement, 70 x 97 and 52 x 71 ft. stone and steel, plain foundation, to P. H. Kelly Co., 1713 Sansom St. $225,000.

Pa., Phila.—Trade School—Bd. Educ., general contract 5 story and basement, 148 x 160 ft., rein.-con. and brick, trade school, 13th and Brandywine Sts., to McCloskey Co., 1600 Thompson St., $833,814; heating to Mellon Co., 4415 Ludlow St., $77,977; plumbing to Bolman Bros., 5th and Cumberland Sts., $32,986. Noted Mar. 12.

Pa., Phila.—Store—Seers Roebuck Co., Arthington and Homan Sts., Chicago, 1 story and basement, 27 x 440 ft., 9 story and basement, 120 x 220 ft., and 1 story and basement, 120 x 450 ft., rein.-con. and brick, plain foundation, Roosevelt Blvd., Whitaker and Langdon Sts., to Turner Constr. Co., 1713 Lansom Pl. Noted Mar. 5.

Pa., Pittsburgh—School—Church of Annunciation, c/o T. J. McCabe, pastor, 2603 Norwood Ave., 2 story and basement, 90 x 142 ft., brick and steel, to Pittsburgh Eng. and Constr. Corp., Homewood Ave. Archts. est. $150,000. Noted Feb. 19.

Md., Baltimore—School and Gymnasium —Bd. Awards, 3 story and basement, 211 x 266 ft., rein.-con., brick and steel, plain foundation, Fait Ave., 1st and Hudson Sts., to J. L. Robinson Constr. Co., 1130 West Lafayette Ave., $574,586. Noted Mar. 12.

N. C., Roaring Gap—Hotel—Roaring Gap, Inc., hotel, (1st unit) resort development, to J. A. Gardner, Charlotte, $175,000. Noted Jan. 15.

La., New Orleans — Hotel — E. Weil, archt., Whitney Central Bank Bldg., remodeling, etc., St. Charles Hotel, to G. Glover Co. Inc., Whitney Central Bank Bldg., $150,000 plus. Noted Jan. 15.

Tenn., Knoxville — Hotel — Farragut Hotel Co., 526 South Gay St., 100 room, rein.-con., brick, steel and stone, plain foundation, to A. H. Whitman, Knoxville. Archts. est. $200,000. Noted Feb. 19.

Tenn., Knoxville—Office—General Building Co., Inc., general contract 14 story, 65 x 165 ft., concrete, steel and hollow tile, Market and Clinch Sts., to Worsham Bros., Empire Bldg., approximately $700,000.

Buildings—Commercial (Continued)

O., Ashtabula—Commercial and Temple—Masonic Temple Building Co., 4 story and basement, 52 x 132 ft., brick, steel and concrete, to Payne & Beymer, Painesville. Archts. est. $150,000.

O., Cleveland—Medical Library—Cleveland Medical Library Assn., c/o F. E. Bunts, 2318 Prospect Ave., 3 story and basement, brick, steel and concrete, Euclid Ave., to Reaugh Constr. Co., 2835 East 51st St. Archts. est. $300,000. Noted Feb. 26.

O., Cleveland—School—F. C. Warner, archt., Bulkley Bldg., 2 story and basement, 60 x 140 ft., brick, steel and concrete, 2027 West 65th St., to Schirmer-O'Hara Co., 1720 Euclid Ave., for St. Colmans Roman Catholic Church, C. A. Martin, pastor, 2027 West 65th St. Archts. est. $200,000. Noted Feb. 19.

O., Cleveland—Stores, Office and Studio—F. Margolin, 2496 Derbyshire Rd., 4 story and basement, 80 x 90 ft., brick, steel and concrete, 3629 Euclid Ave., to Narosny & Libhaber, 476 East 112th St. Archts. est. $175,000.

O., East Cleveland (Cleveland P. O.) — Apartment and Store—A. Linsky, 3060 Berkshire Rd., Cleveland, 3 story, 65 x 115 ft., brick and timber, 13701 Hayden Ave., to Winikur Bros., 9305 Pierpont Ave., Cleveland. Archts. est. $150,000. Noted Jan. 8.

O., Lancaster—School—Bd. Educ., Fairfield Co., P. H. Suyder, clk., 2 story and basement, 80 x 125 ft., rein.-con. and brick, in Baltimore and Basil, to Taylor & Linn, 6 South 5th St., Zanesville, $93,000. Noted Mar. 12.

Ill., Chicago—Club—Standard Club, 2400 South Michigan Ave., 10 story, rein.-con., brick, steel and stone, Dearborn St., to Mellon-Stuart Co., 343 South Dearborn St., Chicago. Archts. est. $1,500,000. Noted Feb. 12.

Ill., Staunton — Church — St. Michaels Parish, 419 East Main St., 1 and 2 story, 58 x 127 ft., rein.-con., brick and stone church, to J. G. Hercules, Jr., Wainwright Bldg., St. Louis, Mo. Archts. est. $150,000. Noted Feb. 12.

Kan., Atchison—Hotel—Chamber of Commerce, c/o R. T. Willette, 4 story and basement, 79 x 183 ft., rein.-con., brick, stone and terra cotta, Commercial and 7th Sts., to E. W. Lawhon Constr. Co., 905 Edmond St., St. Joseph, Mo. Archts. est. $200,000. Noted Mar. 19.

Neb., Omaha—High School—Bd. Educ., c/o W. T. Bourke, secy., 3 story, Bedford stone and brick addition to South High School, to Parson Constr. Co., 404 Arthur Bldg., $675,000. Noted Feb. 12.

Mo., Kansas City—Business—G. A. Breon & Co., Cocola Bldg., 4-story and basement, 71 x 115 ft., brick, concrete and rein.-con., to Morley Bros., 2533 Penn Way.

Mo., St. Louis—Apartment—S. Koplar, 5759 Watermain Ave., 8 story and basement, 150 x 155 ft., rein.-con., brick, stone and steel, Union Blvd. and Washington St., to P. J. Bradshaw, archt., International Life Bldg., acting as general contractor and supervising construction. $1,000,000.

Mo., St. Louis—Hospital—St. Johns Hospital, 307 South Euclid Ave., 3 story and basement, rein.-con., brick and stone, Kingshighway, to Raterman Bldg. & Contg. Co., 1913 St. Louis Ave. Archts. est. $150,000.

Ark., El Dorado—Church—First Presbyterian Congregation, F. R. Dudley, pastor, general contract 2 story and basement, rein.-con., brick and stone church, to W. Peterson, 407 Court St., Little Rock, $96,700. Noted Oct. 16.

Ark., Little Rock — Apartment — H. G. Holcomb, 2411 Arch St., 4 story and basement, rein.-con., brick, tile and terra cotta, Main and 22nd Sts., to C. M. Dunning, 420½ North Hudson St., $325,000. Noted Dec. 25.

Calif., Berkeley—School—Pacific School of Religion (1st unit) concrete and brick school, Arch St. and Hearst Ave., to W. Sorenson, 2940 Piedmont Ave., Oakland, $255,000.

Calif., Los Angeles—Hotel—E. Eisberg, 908 North Mott St., 4 story and basement, 155 room, brick, St. Paul Ave., to Bard & Co., Union Oil Bldg., $150,000.

Calif., Los Angeles—School—City, general contract Garfield High School, 2 story and basement, brick and concrete, 6th St. and Fraiser Ave., Belvedere, to B. D. Kronnick, 3623 South Park Ave., $417,750. Noted Feb. 26.

Calif., Los Angeles—Theatre—Barbara Realty Co., 1 and 3 story, 90 x 145 ft., concrete, plain foundation, Figueroa and Santa Barbara Sts., to Winter Constr. Co., 2400 West 7th St., $200,000.

Calif., Los Angeles — Warehouse — A. Brownstein & Co., 2 story (ultimately 4 story), 125 x 185 ft., rein.-con. and brick, East 15th St., to Macdonald & Kahn, Spring Arcade Bldg., $155,000.

Calif., Los Angeles—Warehouse—Davies Warehouse Co., 413 East 2nd St., altering 2 story, 100 x 150 ft., brick warehouse and constructing new 4 story and part basement, 137 x 173 ft., concrete warehouse, 2nd St. and Central Ave., to W. E. Warne, 1111 Marsh-Strong Bldg., $175,000.

Calif., San Francisco—Clubhouse—City and San Francisco Co. Park Comn., timber clubhouse, Golden Gate Park., to Coast Constr. Co., Crocker Bldg., $154,970.

B. C., Vancouver — Apartment — Angus Ltd., 3 story, 131 x 131 ft., rein.-con., plain foundation, Davis and Pendsell Sts., to Dominion Constr. Co. Ltd., 509 Richards St., $250,000.

B. C., Vancouver — Store — Woodwards Ltd., Hastings and Abbott Sts., 6 story and basement, 152 x 188 ft., rein.-con., brick and tile addition, Abbott and Cordova Sts., to Carter, Halls-Aldinger Co., Ltd., 626 Pender St. W. $250,000. Noted Feb. 26.

Federal Government Work

PROPOSED WORK

California — Road — U. S. Bureau Pub. Rds., 9 Main St., San Francisco, plans 5 mi. road from toll road to Red Box, and 5 mi. from Red Box to Barley Flats, in Angeles Natl. Forest.

BIDS DESIRED

Vt., Burlington—Breakwater Repairs—Apr. 2, by U. S. Engineer Office, Room 710, Army Bldg., 39 Whitehall St., New York City, repairs to breakwater here; adv. E. N.-R. Mar. 19.

N. Y., Brooklyn—Dredging—Apr. 6, by Quartermaster Supply Officer, Army Supply Base, 58th St. and 1st Ave., dredging in Slips 2 and 3; adv. E. N.-R. Mar. 19.

Va., Norfolk — Removing Wreck — Apr. 15, by U. S. Engineer Office, removing wreck of steamer Buttonwood; adv. E. N.-R. Mar. 19.

Ala., Florence—Roofing, etc.—Mar. 27, by U. S. Engineer Office, War Dept., Wash., D. C., furnishing and laying bituminous roofing for power house lead gallery at Wilson Dam.

Ky., Louisville—Lime—Apr. 16, by U. S. Engineer Office, P. O. Box 72, 1,600 tons hydrated lime for Dams 45, 46, 49, 50 and 42, Ohio River; adv. E. N.-R. Mar. 19.

Wis., Milwaukee—Cement—Mar. 25, by U. S. Engineer Office, Federal Bldg., 12,000 bbl. Portland cement.

Wis., Milwaukee — Gravel and Sand — Mar. 27, by U. S. Engineer Office, approximately 10,000 tons gravel and 5,000 tons sand.

Wis., Milwaukee—Tug—Apr. 14, by U. S. Engineer Office, steel side wheel tug; adv. E. N.-R. Mar. 19.

BIDS RECEIVED

Va., Quantico—Surface Bridge—Bureau Yards & Docks, Navy Dept., Wash., D. C., surface bridge here from L. M. Johnston, Arlington, $2,375 (65 days).

Wis., Milwaukee—Steel Bars—U. S. Engineer Office, 576,360 lb. reinforcing bars, from E. A. McCormick, 29 Bway., New York City, ¾, ⅞, and 1 in. round bars $1.97 per ton, ½ in. round $2.07, and ¾ in. square and round $2.17. Noted Feb. 12.

CONTRACTS AWARDED

N. Y., New York—Dredging—U. S. Engineer Office, Room 710, Army Bldg., 39 Whitehall St., dredging and rock removal in East River, to Seely Eng. Co. Inc., Hudson Terminal Bldg., $137,560. Noted Feb. 12.

Pa., Pittsburgh—Derrick Boat—U. S. Engineer Office, War Dept., Wash., D. C., 1 steel hull derrick boat to Howard Ship Yards & Dock Co., Jeffersonville, Ind., $24,973.

Miss., Vicksburg—Barges—U. S. Engineer Office, P. O. Box 421, 2 creosoted wooden barges for Dams 3 and 6 Ouachita River, to West Kentucky Coal Co., Paduka, $1,750. Noted Feb. 5.

Miss., Vicksburg — Towboat — Third Mississippi River Dist. P. O. Box 404, stern wheel towboat, to Howard Ship Yards & Dock Co., Jeffersonville, Ind., $54,743. Noted Jan. 29.

Tenn., Memphis—Addition—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., C. D. Allen, Memphis in charge, 1 story addition to U. S. Veterans Hospital, here, to D. D. Thomas & Son, Memphis, $32,975.

Kan., Leavenworth — Bridge — H. F. Stone, atty. genl. U. S. Dept., Justice, Wash., D. C., to O. H. Schmidt, 3102 Jule St., St. Joseph, Mo., cleaning and repainting bridge over Missouri River, between Federal Prison and U. S. Military Reservation, here, $15,142, reflooring old spans $19,325; new steel viaduct approach, to Wisconsin Bridge & Iron Co., 1116 Commerce Bldg., Kansas City, Mo., $58,854. Noted Mar. 5.

Unclassified

PROPOSED WORK

Electric Line Extensions—Lewiston, Me.—See "Buildings—Industrial."

Park—Brookline (Boston P. O.)—Mass.—Bd. Selectmen plans developing Brookline Field for Park. $25,000. Engineer not selected.

Coal Shed, etc.—Manchester, Conn.—G. E. Willis & Sons, Inc., 2 Main St., plans coal shed, 20 ft. high, 40 x 150 ft., trestle, spur track and tower, concrete and steel, Main St., $50,000. Private plans.

Subway — New Britain, Conn. — See "Sewers."

Pier, etc.—Buffalo, N. Y.—Plans to issue $100,000 bonds improving Bird Island Pier, also $300,000 bonds for outer harbor.

Inspection Shed Enclosures—New York, N. Y. — Bd. Transportation, 49 Lafayette St., rejected bids Mar. 13, constructing inspection shed enclosures at Westchester Ave. and 239th St. yards. Noted Mar. 5.

Gas Tank and Pumping Station — Birmingham, Ala.—Birmingham Electric Co., J. S. Peaver, pres., Ridgely Apts., plans gas tank 220 ft. high and 220 ft. diam., incl. 80 car loads of steel, 2,440 tons of steel, also pumping station. $475,000.

Swimming Pool — Anderson, Ind. — City plans 100 x 160 ft. swimming pool, 53,000 cu.ft. earth excav. M. H. Donney, City Hall, engr.

Gas Extension—Illinois—Illinois Power & Light Corp., East St. Louis, recently purchased Granite City Gas Co. and making plans to increase gas production from 5,000,000 to 12,000,000 cu.ft. per day, incl. 500,000 cu.ft. gas compressor which will permit owner to supply cities of Staunton, Gillespie, Benld, Mt. Olive, Carlinville, Hillsboro, Litchfield, Brooklyn and Venice.

Grain Elevator — Enterprise, Kan. — Kansas Flour Mills Co. having plans prepared by Horner & Wyatt, industrial archts. and consult. engrs., 300 Board of Trade Bldg., Kansas City, Mo., elevator, incl. work house with storage approximately 50,000 bushel in 15 bins, equipped with three 5,000 bushel legs and 3,000 bushel grain cleaner, car puller, power shovel, 10 round storage tanks, 20 ft. diam. and 4 large interstice bins, etc.

Grain Elevator—Omaha, Neb.—Trans-Mississippi Elevator Co., 513 Grain Exch. Bldg., plans addition to elevator, 800 bu. capacity, 13th and 1st Sts. $100,000.

Wharf—Beaumont, Tex.—Voted $225,000 bonds for wharf. R. C. Black, city engr. Noted Feb. 5 under "Buildings—Industrial."

Transmission Line—Oklahoma—Town of Hammon making preliminary surveys for distribution system and transmission line from Hammon to Elk City. $30,000. J. D. Bomford, Elk City, engr.

Gas Lighting and Heating—Erick, Okla.—Plans election $30,000 bonds for gas heating and lighting system, incl. mains, meters, etc. Engineer not selected.

Gas Distribution System—Mangum, Okla.—Plans election $70,000 bonds for gas distribution system, etc.

Overhead Crossing—Carlsbad, Calif.—State and Santa Fe R.R., 6th and Main Sts., Los Angeles, plan overhead crossing, here. $33,000. R. M. Morton, highway engr.

Tunnels—San Francisco, Calif.—City and San Francisco Co. made plans Sunset Tunnel, Dubboce Ave. Route, street cars only, 4,232 ft. long from portal to portal, 25 ft. wide, 18.9 ft. above rails, rock section 3,432 ft. long, 89,712 cu.yd. excav., 15,613 cu.yd. concrete, 686,778 lb. reinforcing earth section 800 ft. long, 21,600

Unclassified (Continued)

cu.yd. excav., 5,664 cu.yd. concrete, 386,000 lbs. reinforcing, $1,653,777 financed solely by property holders; Mission—Sunset—Eureka Valley Route, traffic tunnel, 1,634 ft. long from portal to portal, incl. approaches 1,953 ft. long, 45 ft. wide, 19 ft. high, standard tunnel section, earth, 450 ft. long, 30,800 cu.yd. excav., 9,900 cu.yd. concrete, 526,500 lbs. reinforcing, soft rock, 1,054 ft. long, 50,592 cu.yd. excav., 14,229 cu.yd. concrete, 711,450 lbs. reinforcing hard rock, 130 ft. long, 5,460 cu.yd. excav., 1,430 cu.yd. concrete, 21,710 lb. reinforcing Market St. approach, 5,750 cu.yd. excav., 825 cu.yd. concrete, 50,700 lb. reinforcing, 8,170 sq.ft. asphaltic concrete paving Cole St. approach 3,750 cu.yd. excav., 536 cu.yd. concrete, 33,163 lbs. reinforcing, 8,000 sq.ft. asphalt paving, 2,100 sq.ft. basalt paving replaced, etc., $1,572,654. M. M. O'Shaughnessy, city engr.

Amusement Pier—Santa Monica, Calif.—Casa Del Mar Club having preliminary plans prepared by C. F. Plummer, Story Bldg., Los Angeles, 80 x 645 ft. amusement pier, rein.-con. piling. $500,000.

Drilling — Camlachie, Ont. — Syndicate, E. B. Blain, 684 Main St., Hamilton, interested, plans to drill for oil and gas around Uttoxeter and Aberarder, in Plympton Twp. $50,000.

BIDS DESIRED

Culvert — Dorchester (Boston P. O.) **Mass.** — Mar. 26, by Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, rein.-con., culvert at Potters Cove, here, 1,500 cu.yd. excav. and 500 cu.yd. ballast. $25,000. J. R. Rablin, c/o owner, engr.

Wall—Melrose, Mass.—City taking bids 20 x 90 ft. rein.-con. and brick wall in memorial hall and extending present rear wall. $40,500. J. R. Worcester & Co., 79 Milk St., Boston, engrs. Noted Jan. 8.

Subway—Brooklyn, N. Y.—Mar. 27, by Bd. Transportation, 49 Lafayette St., New York City, laying tracks for portion of 4th Ave. subway line, Brooklyn Boro.

Station Finish—Long Island City, N. Y.—Mar. 27, by Bd. Transportation, 49 Lafayette St., New York City, station finish for Willets Point Blvd. Sta. on Rapid Transit R.R., Queens Boro.

Park Inprovements—Minneapolis, Minn.—Mar. 30, by Bd. Park Comrs., City Hall, improving Powderhorn Lake Park, Sibley, Nicolette, and Chicago Ave. Fields, incl. walks, pools, steps, tennis courts, etc., 45,000 sq.yd. colored concrete and rein.-con., 85,749 ft. concrete curbing, etc. $48,000. Private plans.

Street Lighting System — Dallas, Tex. — Mar. 27, by M. G. James, city secy., ornamental street lighting system on Lancaster Ave. between Jefferson Ave. 9th St., and Jefferson Ave. between Marsalis Ave. and 10th St. E. A. Kingsley, city engr.

Underpass—Nevada—Apr. 1, by State Highway Comn., Carson City, 685 ft. underpass under Central Pacific R.R. tracks in Winnemucca, Humboldt Co., 7,750 cu.yd. excav., 370 excav. for 15 in. concrete pipe and furnish 450 ft. 15 in. concrete pipe, 640 cu.yd. concrete. G. W. Borden, state highway engr.

CONTRACTS AWARDED

Athletic Field, etc. — Scituate, Mass. — Civic Centre Com. athletic field, running track, tennis courts and roadways about high school building, to R. A. Doyle, 32 Caldwell Crescent, Lynn, $23,377. Archts. est. $25,000. Noted Mar. 12.

Station Finish—New York, N. Y.—Bd. Transportation, 49 Lafayette St., station finish work at 95th St. for Rapid Transit R.R., to Suffolk Building Corp., 7 East 42nd St., $128,000.

Wharf—New Orleans, La. — Bd. Port Comrs., New Court House Bldg., furnishing structural steel for Julia St. wharf extension, to Rochester Bridge Co., Rochester, Ind., $33,606. Noted Nov. 27.

Foundation — Cleveland, O. — Ohio Bell Telephone Co., C. P. Cooper, pres., 4300 Euclid Ave., foundation for 3 story, 151 x 234 ft., brick, steel and rein.-con., East 8th St. and Huron Rd., to Lundoff-Bicknell Co., B. F. Keith Bldg. Noted Sept. 18 under "Buildings—Commercial."

Grade Separation—Springwells, Mich.—B. P. Esper, city clk., constructing grade separation, etc., for depressing Mulkey Ave. for width of 86 ft. under Michigan Central R.R. tracks incl. steel deck encased in concrete bridge, with rein.-con. piers and walls, over Southern Ave., to Duffy & Jutton, Milwaukee, Wis., $399,000. Noted Feb. 12.

Subway—Amarillo, Tex.—City, c/o J. D. Bartlett, city mgr., and Atchison, Topeka & Santa Fe Ry. Co., Railway Exch., Chicago, will build 710 ft. subway, 48 ft. wide and 16 ft. deep, by day labor. City will handle excavation, paving and concrete work, and Atchison, Topeka & Santa Fe Ry. steel and piers. $58,000. H. B. Jones, city engr. M. C. Blanchard, Amarillo, ch. engr.

Gas Pipe Line—Oklahoma—Kansas Natural Gas Co., Wichita, Kan., having surveys made 75 mi. 6- to 14-in. natural gas pipe line from Blackwell, Okla. to Wichita, Kan. $800,000. Hope Eng. Co., 603 Mayo Bldg., Tulsa, Okla., engrs.

Towers—Lake Cushman (mail Hoodsport), **Wash.**—Towers for transmission line at Narrows Crossing in connection with Cushman Power development under way, to Star Iron & Steel Wks., 435 East 11th St., Tacoma, $148,804; cable and fittings, to J. A. Roebling & Sons, Tacoma, $37,612.

Wood Stave Pipe Line—Norris, Mont.—Montana Power Co., 40 East Bway., Butte, 8,000 ft. wood stave pipe, 13 ft. diam., for penstock in Madison River Canyon, near here, to Federal Pipe & Tank Co., 5332 24th St. N. W., Seattle, Wash., approximately $150,000.

Material and Equipment

PROPOSED WORK

Stone Crushing Apparatus—Gloucester, Mass. — Municipal Council, plans to purchase stone crushing apparatus, with 20 to 30 tons' capacity per day. $4,200.

Tractor — Cleveland, O. — City plans to purchase 1 tractor. A. K. Hoare, city purch. agt.

Snow Plows, etc.—Kansas City, Mo.—City plans to purchase two tractor driven snow plows and complete equipment of motor street flushing machines.

BIDS DESIRED

Tar—Augusta, Me. — Mar. 25 by State Hy. Comn. furnishing about 1,900,000 to 2,000,000 gal refined tar for cold surface treatment on gravel roads.

Road Oil, etc.—Boston, Mass.—Mar. 24, by Supply Dept., 350,000 gals. 45% asphalt road oil to Pub. Wks., Dept. Street Cleaning and Oiling Serv.; 50,000 wood blocks, to Pub. Wks. Dept. Paving Serv. F. P. Rock, supt.

Sewer Bricks—Boston, Mass. — Mar. 20, by Supply Dept., 260,000 sewer bricks also Beach Gravel delivered as required until Dec. 31, to various city depths. F. P. Rock, supt.

Sand, etc.—Medford, Mass.—Mar. 20, by purch. agt., Medford Bldg., furnishing clean sharp sand delivered at city yard, drain pipe, 10- to 24-in. 2 ft. lengths, 4 cars more or less, catch basin frames and covers 24 x 8½ in. high and catch basin traps. Tars, oils and asphalts for year 1925 to be applied to streets as called for, edgestones delivered on work 5,000 ft., of 18-in. straight stone and 500 ft. 18-in. circle stone, crushed stone sizes, 1 and 2, dust and pea dust to be delivered on work.

Fuel Oil—Long Island City, N. Y.—Mar. 20, by G. Lefer, purch. agt. for Long Island R.R., Jamaica Office Bldg., Jamaica, 3,000,000 gals. bunker "c" fuel oil delivered in Dock 2, Long Island City.

Oil—Somerville, N. J.—Mar. 20, by Bd. Freeholders Somerset Co., W. H. Woodruff, clk., asphaltic oil, 10,000 gal. for penetration, 10,000 gal. for hot application, 10,000 gal. for cold application, and 8,000 gal. for patch work; also refined coal tar or water gas tar, 85,000 gal. for penetration, 10,000 gal. for hot application, 170,000 gal. for cold application, and 68,000 gal. for cold patching. H. C. Van Emburgh, Court House, engr.

Lime, Steam Roller, etc.—Long Island City — Mar. 23, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., 1,100 net tons lime for various disposal plants; one 5 ton tandem steam roller, one 15 ton highway trailer, one distributor, 6 asphalt motor trucks.

Pipe, etc.—Baltimore, Md.—Mar. 26, by Bd. Awards, galvanized w.i. pipe, couplings, malleable iron fittings and c.i. pipe, etc., to Water Dept. V. B. Siems, City Hall, water engr.

Ice Manufacturing Machines — Birmingham, Ala. — Bessemer Ice & Coal Co., Bessemer, in market for ice manufacturing machines. G. Woodrow, mgr.

Gravel, etc.—Bastrop, La.—See "Streets and Roads."

Tar—Cincinnati, O.—Mar. 27, by Comrs. Hamilton Co., 200,000 gal. tar Grade 1, to Repair Dept. $24,000. E. A. Gast, Court House, engr.

Loading Machines, etc.—Columbus, O.—Hub Builders Supply & Coal Co., 675 Start St., in market 1 conveyor, 2 loading and unloading machines. R. J. Dienst, purch. agt.

Loading Equipment, etc.—Piqua, O.—Piqua Washed Sand Co., in market for heavy loading equipment and medium sized steam shovel. E. F. Beckert, mgr.

Loading Machinery—Toledo, O.—Kuhlman Builders Supply & Brick Co., 723 Nicholas Bldg., in market for loading machinery for new yard. A. R. Kuhlman, purch. agt.

Crane — Detroit, Mich. — Whitehead & Kales Co., 2361 Beecher Ave., Detroit, in market for 60 ton locomotive crane.

Patrol Graders—Chippewa Falls, Wis.—W. H. Taylor, highway comr. Chippewa Co., in market for 4 or 5 patrol graders.

Road Machinery—Stevens Point, Wis.—Mar. 23, by T. E. Cauley, highway comr. Portage Co., five 1 or 1.5 ton motor trucks. Noted Dec. 11.

Road Roller—Sturgeon Bay, Wis.—City, c/o E. S. Ackerman, city clk., in market for road roller.

Street Flusher — Minneapolis, Minn. — Mar. 24, by F. S. Gram, city purch. agt., 1 street flusher mounted on a 5-ton truck. N. W. Elsberg, city engr.

Paving Material—St. Paul, Minn.—Mar. 24 by H. W. Austin, city purch. agt., 803 sq.yd. of 3 in. vertical fibre brick, 1,520 bbls. cement, 1,197 cu.yd. crushed rock or gravel and 61 tons asphalt, etc., for Beech St.; 1,600 bbls. cement, 1,224 cu.yd. crushed rock or gravel, and 92 tons asphalt for Cromwell and Bayless Aves.; 910 bbls. cement 670 cu.yd. crushed rock or gravel and 143 tons asphalt for Montrose Pl., 1,650 bbls. cement, 1,290 cu.yd. crushed rock or gravel and 73 tons asphalt for Carroll Ave. G. M. Shepard, city engr.

Road Machinery—Fargo., N. D.—Apr. 8, by F. F. Doherty, aud. Cass Co., graders, drags and engines.

Pipe, etc.—Dallas, Tex.—M. G. Jones, city secy., taking bids 6,000 ft. 6 in., 1,200 ft. 8 in., 625 ft. 12-in. and 275 ft. 18-in. tile pipe, also 600 ft. 6 x 6 in. special wyes. E. A. Kingsley, city engr.

Sweeper, etc.—Houston, Tex.—O. F. Holcombe, mayor, taking bids 2 motor pickup sweepers, two 7 ft. graders and four 1 ton trucks. W. R. Britton, city street comr.

Oil, Asphalt, etc.—Brantford, Ont.—Mar. 26, by E. J. Campbell, Bd. Wks., City Hall, asphaltic road oil, paving asphalt, vitr. sewer pipe, portland cement, limestone dust, iron castings, etc. $50,000. F. P. Adams, city engr.

Asphalt Roller, etc.—Hamilton, Ont.—Mar. 25, by S. H. Kent, city clk., one 8 ton tandem asphalt roller, and 1 concrete paving mixer. W. L. McFaul, city engr.

BIDS RECEIVED

Ties and Timber—New York, N. Y.—Bd. Transportation, 49 Lafayette St., ties and timber for constructing Rapid Transit R.R., from Robinson Lumber Co., 20 West 34th St. $13,639. Noted Mar. 5.

CONTRACTS AWARDED

Paving Blocks — Baltimore, Md. — Bd. Awards, City Hall, 100,000 red wire cut vitr. paving blocks and 30,000 buff repressed vitr. blocks, both 3 in. wide, to Westport Paving Co., Westport, $4,200 and $3,900 respectively.

Street Sweeper—Racine, Wis.—Bd. Pub Wks., 1 motor driven street sweeper, to Austin Western Mchy. Co., 400 North Michigan Ave., Chicago, Ill., $7,000. Noted Jan. 29.

Tarvia—Two Rivers, Wis.—Bd. Pub. Wks., to Amer. Tar Products Co., 208 South La Salle St., Chicago, Ill., 20,000 gal. tarvia B at $0.105 per gal., 16 bbl. tarvia A at $0.155, 8 bbl. tarvia K. P. $0.185, and 56 bbl. tarvia X $0.155. Noted Feb. 26.

Tar—Minnneapolis, Minn.—F. S. Gram, city purch. agt., 500,000 gals. refined tar for Park Bd., to Barrett Co., 1 19th Ave. S., prices varying from $0.1095 to $0.1495 per gal. Noted Mar. 12.

Steel Bands, etc. — Tacoma, Wash. — For 4,320 lb. steel bands to Pacific Coast Forge Co., 3800 Iowa St., Seattle; and 112,000 lin.ft. treated staves for wood stave pipe, to Amer. Wood Pipe Co., Rust Bldg.

Asphaltic Cement—Los Angeles, Calif.—City, approximately 2,000 tons asphaltic cement, with grade "D" Calol asphalt, penetration 35 to 50 delivered in tank cars not less than tank car lots approximately 40 tons each, f.o.b. cars, City's Spur. Track at Hewitt station on Southern Pacific R.R., in San Fernando Valley Dist., for period ending June 30, 1925, to Standard Oil Co., 1727 North Spring St., at $15.30 per ton

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: April 3.

Highway Work

STATE DEPARTMENT OF PUBLIC WORKS

BUREAU OF HIGHWAYS

Albany, N. Y.

Sealed proposals will be received by the undersigned at the office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock p.m. on Friday, April 3, 1925, for improvement of highway in the following county:

CATTARAUGUS.....(One highway: 1.16 miles)

Also for the reconstruction of the following:

ALLEGANY...(One contract: 2.69 miles)
CATTARAUGUS.....(One contract: 1.18 miles)
CAYUGA.....(One contract: 1.59 miles)
CHAUTAUQUA.....(One contract: 3.86 miles)
CLINTON.....(One contract: 6.58 miles)
ERIE.....(One contract: 5.27 miles)
GENESEE.....(One contract: 4.78 miles)
JEFFERSON...(One contract: 5.93 miles)
LEWIS.....(One contract: 5.93 miles)
LIVINGSTON.....(One contract: 8.87 miles)
MADISON.....(One contract: 4.23 miles)
MONROE...(Two contracts: 8.545 & 4.01)
NIAGARA.....(One contract: 5.20 miles)
ONTARIO.....(One contract: 1.07 miles)
RENSSELAER.(One contract: 4.25 miles)
TOMPKINS..(Two contracts: 4.00 & 3.53)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Bureau in Albany, N. Y., and also at the offices of the division engineers in whose division the roads, to be constructed and reconstructed, are located. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

A. W. BRANDT,
Commissioner of Highways.

Bids: April 27.

Dredging

Leesburg, Fla.

Sealed proposals on blank forms furnished by the City and addressed to the "Mayor and Commissioners, Leesburg, Florida," will be received until 12 o'clock, noon, April 27, 1925, at Leesburg, Florida, for furnishing all equipment and labor and doing the following work:

Approximately 46,500 cu.yds. sand and muck fill.

Each bid shall be accompanied by a certified check for not less than two hundred and fifty dollars ($250.00), made payable to the City Manager.

Plans and specifications can be seen at the office of the City Manager, and bidding blanks may be obtained from him.

The right is reserved to reject any or all bids.

DR. W. A. MACKENZIE,
Mayor Commissioner.
D. E. BIVINS,
City Manager.
W. E. HARKNESS,
City Clerk.
S. H. JAUDON ENGINEERING CO.,
Engineers.
Leesburg, Florida.

OFFICIAL PROPOSALS

Bids: April 12.

Office Partitions

STATE DEPARTMENT OF LABOR

New York, N. Y.

Sealed proposals for Construction, Hearing Room, Office Partitions, State Department of Labor, 124 East 28th Street, New York City, will be received at the above address by Hon. James A. Hamilton, Industrial Commissioner, until 12 o'clock noon, Wednesday, April 1, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this state and made payable to the State of New York or money equal to 5% of the amount of the proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specification No. 4476. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the State Department of Labor, 124 East 28th Street, New York City, at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway and 23rd St., and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained from the Department of Architecture, Capitol, Albany, N. Y., by persons or firms engaged in the lines of work required and at the discretion of the State Architect, upon deposit of a certified check or money in the sum of $10.00 made payable to the State of New York, for each set of Construction drawings and specifications, which deposit will be returned if the drawings and specifications are received in good condition by the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated March 13, 1925.

Bids: March 24.

Foundation Construction

OFFICE OF THE DIRECTOR,
DEPARTMENT OF PUBLIC WORKS

Philadelphia, Pa.

Sealed proposals will be received at Room 216, City Hall, until 12 o'clock noon on Tuesday, March 24, 1925 and opened at that time in Room 216, City Hall, for Foundation Construction comprising Excavation, Concrete Piling, Pile Capping and Bracing for A Municipal Stadium upon City-owned property east of Broad street and south of Pattison avenue, known as East League Island Park.

Plans and proposal forms may be obtained by bidders from the architects, Simon and Simon, at 249 S. Juniper Street, upon the payment of Fifty (50) Dollars, which sum will be refunded upon the return of the said specifications and plans in an undamaged condition and within one week after the opening of bids.

All proposals must be accompanied by a certified check in the amount of five (5) per cent of the bid, in accordance with the ordinance of March 7, 1924 and amendment of July 2, 1924.

GEORGE H. BILES,
Director.

OFFICIAL PROPOSALS

Bids: March 27.

Road Improvement

Oakhurst, N. J.

Notice is hereby given that sealed bids will be received by Township of Ocean for the Improvement of Roseld Avenue in the Township of Ocean and the Borough of Deal in the County of Monmouth with a Concrete surface, estimated amount of Concrete surface pavement required is 8,280 square yards, and opened and read in public at Oakhurst, N. J., on Friday, March 27th, 1925, at eight P.M.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by J. W. Seaman, Engineer, and approved by the State Highway Commission, Borough of Deal and County of Monmouth, have been filed in the office of the said engineer at 192 Broadway, Long Branch, and with the said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to W. B. Jeffrey, Clerk, and must be accompanied by a Surety Company Certificate and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and on the hour above named.

The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of the Township of Ocean.

GEORGE E. VAN NOTE, Chairman.
Attest: W. B. JEFFREY,
Clerk of Ocean Township.

Bids: April 6.

Excavating

DEPARTMENT OF PUBLIC WORKS

Buffalo, N. Y., Mar. 13, 1925.

Sealed proposals for work and supplies as set forth below, will be received at the office of this Department, Room 5 Municipal Building, until 11 o'clock a.m., April 6th, 1925.

No proposal will be considered unless it be accompanied by a certified check, payable to the order of the Department of Public Works, in the amount specified in specifications or by a bond conforming to law; such bonds to be fifty per cent of the sum named in the proposal.

Plans and specifications and estimate of quantities can be seen, and printed forms of proposals, and any desired information, can be had on application at the Bureau of Engineering on and after this date.

This Department reserves the right to reject any and all bids, and waive any informalities.

A separate proposal must be made for the work and suppliies included in each descriptive paragraph following:

For the completion of Part I of Section No. 4 of the Buffalo River and Cazenovia Creek Improvement from about 100 feet East of South Park Avenue to about 700 feet West of Cazenovia Street.

Work consists in the removal of about 250,000 cubic yards of earth excavation.

Bid and contract will be on a price per cubic yard place measurement.

Formal advertisement will be found in the Buffalo Courier, Buffalo Times and Buffalo Post on March 19, 20, 26, 27, 1925.

CONSTRUCTION NEWS

Engineering News-Record, March 26, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Power plant, New Braunfels, Tex., San Antonio Public Service Co. plans new power plant, $5,000,000.

Office, Detroit, Mich., Book Estate plans 35 story and basement office, $3,000,000.

Plant, Jacksonville, Tenn., Du Pont Fiber Silk Co. plans 2 additional units, $2,750,000.

Sugar refinery, Sacramento, Calif., Northwestern Sugar Refining Co. plans sugar refinery, $1,500,000.

Road work, Groesbeck, Tex., Limestone Co. making plans to hard surface 40 mi. $1,300,000.

Office and store, Cedar Rapids, Iowa, Iowa Railway and Light Co. having plans prepared for 14 story and basement, $1,000,000.

Commerce Building, Cincinnati, Ohio, Chamber of Commerce having plans prepared, $1,000,000.

Bids Received

Subway, Philadelphia, Pa., Dept. City Transit, combination bid from Winston & Co., Inc., C. A. Locher and Frederick L. Cranford, Inc., $16,749,936; Keystone State Constr. Co., $16,863,437; Booth & Flinn, Ltd., $16,965,408; Patrick McGovern, Inc., $17,234,318; Arundel Corporation, $17,490,754; Rodgers & Hagerty, Inc., $17,900,173.

Gymnasium, Berkeley, Calif., University of California, for first unit, from K. E. Parker, $300,000.

Large Contracts Let During Week

Terminal and Office, Los Angeles, Calif., Subway Terminal Corporation to P. J. Walker Co., $2,500,000.

Commercial and Studio, Cleveland, Ohio, Syndicate to S. W. Emerson Co., $2,000,000.

Garbage disposal system, Kansas City, Mo., City to Paul Patton, $2,943,920.

Office, New York, N. Y., National Board of Fire Underwriters to J. Stewart & Co., Inc., $1,150,000.

Theater, Jackson Heights, N. Y., Grob & Knobel to M. J. Kramer & Son, $1,000,000.

High School, New York, N. Y., Catholic Archdiocese of New York to P. J. Brennan & Son, $1,000,000.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
Mar. 27	Brooklyn, N. Y.	Mar. 19
Mar. 30	Bridgewater, Mass.	Mar. 12
Mar. 31	Hagerstown, Md.	Mar. 12
Mar. 31	Mayville, Wis.	Mar. 19
Apr. 2	Oneida, N. Y.	Mar. 12
Apr. 2	Fond du Lac, Wis.	Mar. 26
Apr. 2	Brighton (Boston P. O.), Mass.	Mar. 26
Apr. 2	Boston, Mass.	Mar. 26
Apr. 3	Trenton, N. J.	Mar. 26
Apr. 3	Manitowoc, Wis.	Mar. 26
Apr. 6	Anderson, Ind.	Mar. 12
Apr. 6	New York	Mar. 26
	Adv. Mar. 19 and 26.	
Apr. 6	Minneapolis, Minn.	Mar. 26
Apr. 6	Cincinnati, O.	Mar. 26
Apr. 8	Winona, Minn.	Mar. 19
	Adv. Mar. 19 and 26.	
Apr. 9	Asheville, N. C.	Mar. 26
	Adv. Mar. 26.	
Apr. 13	Bellingham, Wash.	Mar. 12
Apr. 14	Spartanburg, S. C.	Mar. 5
	Adv. Mar. 5 to 26.	
Apr. 14	Wisconsin Rapids, Wis.	Mar. 19
Apr. 15	Apex, N. C.	Mar. 19
	Adv. Mar. 19 and 26.	
	SEWERS	
Mar. 27	Long Island City, N. Y.	Mar. 26
Mar. 30	St. George, N. Y.	Mar. 26
Mar. 30	Wilson, N. C.	Mar. 26
Mar. 30	Wilson, N. C.	Mar. 19
Mar. 30	San Diego, Calif.	Mar. 19
Mar. 31	Juniata (branch of Altoona), Pa.	Mar. 19
Mar. 31	Burbank, Calif.	Mar. 19
Mar. 31	St. Paul, Minn.	Mar. 26
Apr. 2	Rome, N. Y.	Mar. 5
Apr. 2	Cleveland, O.	Mar. 26
Apr. 2	New York, N. Y.	Mar. 26
Apr. 2	Massachusetts	Mar. 26
Apr. 8	Portsmouth, O.	Mar. 26
	Adv. Mar. 26.	
Apr. 10	Trenton, N. J.	Mar. 26
	Adv. Mar. 26.	
Apr. 15	Glasgow, Ky.	Mar. 26
Apr. 17	Flint, Mich.	Mar. 26
	Adv. Mar. 26.	
Apr. 21	Westwood, N. J.	Mar. 26
	Adv. Mar. 26.	
	WASTE DISPOSAL	
Apr. 2	Buffalo, N. Y.	Mar. 19
Apr. 3	Durham, N. C.	Mar. 26
	Adv. Mar. 26.	
	BRIDGES	
Mar. 30	New Jersey	Mar. 12
Mar. 30	Leominster, Mass.	Mar. 26
Mar. 31	St. Paul, Minn.	Mar. 26
Mar. 31	Louisiana	Feb. 26
Mar. 31	Georgetown, S. C.	Mar. 12
Mar. 31	Louisiana	Mar. 19
Apr. 1	Huntington, W. Va.	Mar. 5
	Adv. Mar. 5 to 26.	
Apr. 1	St. Aubert, Que.	Mar. 26
Apr. 2	Pennsylvania	Mar. 19
Apr. 2	Perth Amboy, N. J.	Mar. 12
Apr. 2	Hamburg, N. Y.	Mar. 12
Apr. 2	Kingstree, S. C.	Mar. 26
Apr. 6	North Dakota	Mar. 26
	Adv. Mar. 26.	
Apr. 6	Red Bank, N. J.	Mar. 26
	Adv. Mar. 19 and 26.	
Apr. 7	Washington	Mar. 26
Apr. 15	Phila., Pa.	Mar. 26
	Adv. Mar. 26.	
Apr. 17	Dayton, O.	Mar. 26
	Adv. Mar. 26.	
Apr. 21	Detroit, Mich.	Mar. 26
	Adv. Mar. 26.	
	RAILWAYS	
Apr. 6	Ontario	Mar. 26
	DAM	
Apr. 7	Burton, B. C.	Mar. 19
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
Apr. 1	Clewiston, Fla.	Mar. 5
Apr. 1	Baltimore, Md.	Mar. 26
Apr. 3	Vista, Calif.	Mar. 26
Apr. 6	Buffalo, N. Y.	Mar. 19
	Adv. Mar. 19 and 26.	
Apr. 6	Ontario	Mar. 26
Apr. 10	Cleveland, Miss.	Mar. 26
Apr. 16	New York	Mar. 26
	Adv. Mar. 26.	
Apr. 17	New York	Mar. 26
	Adv. Mar. 26.	
Apr. 18	New York	Mar. 26
	Adv. Mar. 26.	
Apr. 27	Leesburg, Fla.	Mar. 12
	Adv. Mar. 12 to 26.	
	STREETS AND ROADS	
Mar. 27	Pennsylvania	Mar. 12
Mar. 27	Deal, N. J.	Mar. 12
Mar. 27	Tennessee	Mar. 19
Mar. 27	Wyoming	Mar. 19
Mar. 27	North Beach Haven, N. J.	Mar. 19
Mar. 27	Michigan	Mar. 19
Mar. 27	Quebec	Mar. 19
Mar. 27	Long Island City, N. Y.	Mar. 26
Mar. 28	Missouri	Mar. 19
Mar. 29	California	Feb. 19
Mar. 30	Duluth, Minn.	Feb. 12
Mar. 30	Kingston, Pa.	Mar. 12
Mar. 30	Akron, O.	Mar. 12
Mar. 30	Central Falls, R. I.	Mar. 19
	Adv. Mar. 19 and 26.	
Mar. 30	Millersburg, O.	Mar. 19
	Adv. Mar. 19 and 26.	
Mar. 30	San Diego, Calif.	Mar. 19
Mar. 30	West Allis, Wis.	Mar. 26
Mar. 30	Gardner, Mass.	Mar. 26
Mar. 30	Kenosha, Wis.	Mar. 26
Mar. 30	Milwaukee, Wis.	Mar. 26
Mar. 30	Ontario	Mar. 26
Mar. 31	Milwaukee, Wis.	Mar. 26
Mar. 31	Toronto, Ont.	Mar. 26
Mar. 31	Welland, Ont.	Mar. 26
Mar. 31	Neenah, Wis.	Mar. 26
Mar. 31	Geneva, Ill.	Mar. 26
Mar. 31	Wisconsin	Mar. 26
Mar. 31	Maryland	Mar. 26
	Adv. Mar. 26.	
Mar. 31	Water Valley, Miss.	Mar. 19
Mar. 31	Pennington, N. J.	Mar. 19
Mar. 31	Louisiana	Mar. 19
Mar. 31	Albany, Tex.	Mar. 19
Mar. 31	Quebec	Mar. 19
Mar. 31	Michigan	Mar. 19
Mar. 31	Trenton, N. J.	Mar. 19
Mar. 31	Massachusetts	Mar. 26
Mar. 31	Altoona, Pa.	Mar. 26
Mar. 31	Knoxville, Tenn.	Mar. 26
Apr. 1	Marshalltown, Ia.	Mar. 26
Apr. 1	Birmingham, Ala.	Feb. 19
Apr. 1	Tuscaloosa, Ala.	Feb. 19
Apr. 1	Cape May, N. J.	Mar. 12
	Adv. Mar. 12 to 26.	
Apr. 1	Nevada	Mar. 19
Apr. 1	Baltimore, Md.	Mar. 26
Apr. 1	Appleton, Wis.	Mar. 26
Apr. 1	Eau Claire, Wis.	Mar. 26
Apr. 1	New York, N. Y.	Mar. 26
Apr. 1	St. George, N. Y.	Mar. 26
Apr. 1	Brooklyn, N. Y.	Mar. 26
Apr. 2	New York, N. Y.	Mar. 26
Apr. 2	Modesto, Calif.	Mar. 26
Apr. 2	Michigan	Mar. 19
Apr. 2	Louisiana	Mar. 19
Apr. 2	Mankato, Minn.	Mar. 26
Apr. 2	Preston, Minn.	Mar. 26
Apr. 3	Sumner, Miss.	Mar. 26
Apr. 3	Georgetown, S. C.	Mar. 26
Apr. 3	New York	Mar. 19
	Adv. Mar. 19 and 26.	
Apr. 3	North Dakota	Mar. 5
Apr. 3	Cleveland Heights (Warrensville P. O.), O.	Mar. 26
Apr. 3	Two Rivers, Wis.	Mar. 26
Apr. 4	Quakertown, N. J.	Mar. 19
Apr. 6	Sardis, Minn.	Mar. 19
Apr. 6	New Jersey	Mar. 19
	Adv. Mar. 19 and 26.	
Apr. 6	Sedalia, Mo.	Mar. 12
Apr. 6	California	Mar. 26
Apr. 6	Hudson, Wis.	Mar. 26
Apr. 6	Arizona	Mar. 26
Apr. 7	Santa Rosa, Calif.	Mar. 26
Apr. 7	Maryland	Mar. 26
	Adv. Mar. 26.	
Apr. 7	Burbank, Calif.	Mar. 26
Apr. 7	North Dakota	Mar. 5
Apr. 7	Washington	Mar. 26
Apr. 8	Portsmouth, O.	Mar. 26
	Adv. Mar. 26.	
Apr. 8	Stanton, Neb.	Mar. 26
Apr. 8	Nevada	Mar. 26
Apr. 8	Michigan	Mar. 26

Bids Close		See Eng. News-Record
Apr. 9	Arkadelphia, Ark. Adv. Mar. 19 and 26.	Mar. 19
Apr. 14	Marion, Ia	Mar. 19
Apr. 14	Norman, Okla.	Mar. 26
Apr. 14	St. Louis, Mo.	Mar. 26
Apr. 14	Louisiana	Mar. 26
Apr. 14	Columbus, Miss.	Mar. 26
Apr. 18	Pennsylvania Adv. Mar. 26.	Mar. 26
Apr. 21	Menasha, Wis.	Mar. 26
June 1	Duluth, Minn.	Mar. 12

BUILDINGS—COMMERCIAL

Mar. 27	Buffalo, N. Y.	Mar. 12
Mar. 28	Bowling Green, O.	Mar. 19
Mar. 30	Mt. Vernon, Ind.	Mar. 12
Mar. 30	Royal Oak, Mich.	Mar. 26
Mar. 31	Washington	Mar. 12
Mar. 31	Urbana, Ill.	Mar. 19
Mar. 31	Toronto, Ont.	Mar. 19
Mar. 31	Des Moines, Ia.	Mar. 26
Mar. 31	Fairfield, Ill.	Mar. 26
Mar. 31	Creston, Ia.	Mar. 26
Apr. 1	Zanesville, O.	Feb. 19
Apr. 1	San Francisco, Calif.	Mar. 12
Apr. 1	Wichita, Kan.	Mar. 19
Apr. 1	Williamstown, Mass.	Mar. 19
Apr. 1	Donora, Pa.	Mar. 26
Apr. 1	New London, Conn.	Mar. 26
Apr. 2	Galvin, O.	Mar. 26
Apr. 3	Uniontown, Pa.	Mar. 26
Apr. 3	Woodbury, Ore.	Mar. 26
Apr. 3	Salem, Ore.	Mar. 26
Apr. 4	Cleveland, O.	Mar. 26
Apr. 4	New Braunfels, Tex.	Mar. 26
Apr. 6	Cleveland Heights (Warrensville P. O.), O.	Mar. 19
Apr. 7	San Antonio, Tex.	Mar. 19
Apr. 8	Brooklyn, N. Y. Adv. Mar. 19 and 26.	Mar. 19
Apr. 9	Racine, Wis.	Mar. 26
Apr. 10	Boston, Mass.	Mar. 26
Apr. 11	Euclid, O.	Mar. 19
Apr. 13	Harrisburg, Pa.	Mar. 19
Apr. 13	Harrisburg, Pa.	Mar. 26
Apr. 20	Minneapolis, Minn.	Mar. 19
Apr. 23	Taylor, Pa.	Mar. 26
May 1	Johnstown, Pa.	Mar. 19
May 7	San Antonio, Tex.	Mar. 26
July 14	Phila., Pa.	Feb. 19

FEDERAL GOVERNMENT WORK

Mar. 27	Dredging—Providence, R. I.	Feb. 26
Mar. 27	Drainage—Baltimore, Md.	Mar. 12
Mar. 27	Roofing—Florence, Ala.	Mar. 19
Mar. 27	Gravel and Sand—Milwaukee, Wis.	Mar. 19
Mar. 28	Dredging—Charleston, S. C.	Feb. 26
Mar. 30	Post Office—Thibodaux, La.	Mar. 12
Mar. 31	Sheet Piling—Louisville, Ky. Adv. Mar. 5 to 26.	Mar. 5
Mar. 31	Earthwork—Memphis, Tenn. Adv. Mar. 12 to 26.	Mar. 12
Mar. 31	Repairs—Fort Wright (Fishers Island P. O.), N. Y. Adv. Mar. 12 to 26.	Mar. 12
Apr. 1	Alterations—Norfolk, Va.	Mar. 12
Apr. 2	Breakwater Repairs—Burlington, Vt. Adv. Mar. 19 and 26.	Mar. 19
Apr. 4	Dredging—Galveston, Tex. Adv. Mar. 5 to 26.	Mar. 5
Apr. 6	Dredging—Brooklyn, N. Y. Adv. Mar. 19 and 26.	Mar. 19
Apr. 8	Hangars—Pearl Harbors, H. T.	Feb. 19
Apr. 8	Surfacing—San Diego, Calif.	Mar. 26
Apr. 9	Dredging — New York, N. Y. Adv. Mar. 12 to 26.	Mar. 12
Apr. 10	Cement—Louisville, Ky. Adv. Mar. 12 to 26.	Mar. 12
Apr. 10	Dwellings—West Huntington, Va.	Mar. 26
Apr. 14	Tug—Milwaukee, Wis. Adv. Mar. 19 and 26.	Mar. 19
Apr. 15	Water Tank—Guantanamo Bay, Cuba Adv. Mar. 19 and 26.	Mar. 12
Apr. 15	Removing Wreck—Norfolk, Va. Adv. Mar. 19 and 26.	Mar. 19
Apr. 15	Post Office—Amherst, Mass. Adv. Mar. 26.	Mar. 26
Apr. 15	Garage—Point St. George, Calif.	Mar. 26
Apr. 16	Repairs—Governors Island, N. Y. Adv. Mar. 26.	Mar. 26
Apr. 16	Lime—Louisville, Ky. Adv. Mar. 19 and 26.	Mar. 19
Apr. 21	Recreation—Northampton, Mass. Adv. Mar. 26.	Mar. 26

UNCLASSIFIED

Mar. 27	Subway—Brooklyn, N. Y.	Mar. 19
Mar. 27	Station Finish—Long Island City, N. Y.	Mar. 19
Mar. 30	Park Improvements—Minneapolis, Minn.	Mar. 19
Mar. 31	Heating, Ventilating, etc., Ithaca, N. Y.	Mar. 12
Mar. 31	Police and Fire Alarm — Mobile, Ala.	Mar. 5
Apr. 1	Underpass—Winnemucca, Nev.	Mar. 19
Apr. 1	Undergrade Crossing — Nevada	Mar. 26
Apr. 2	Inspection Sheds—New York, N. Y.	Mar. 26
Apr. 3	Subway—New York, N. Y.	Mar. 26
Apr. 6	Undergrade Crossing — California	Mar. 26
Apr. 6	White Way—Altamont, Ill.	Mar. 26
Apr. 7	Tunnel Work—New York, N. Y. Adv. Mar. 19 and 26.	Mar. 26
Apr. 9	Underground Conduit—Detroit, Mich.	Mar. 26
Apr. 16	Fire Protection — Newark, N. Y. Adv. Mar. 19 and 26.	Mar. 12
Apr. 23	Tunnel—Sonyea, N. Y. Adv. Mar. 26.	Mar. 26
May 8	Tunnel—New York, N. Y. Adv. Mar. 5 to 26.	Mar. 5

MATERIAL AND EQUIPMENT

Mar. 30	Snow Plows—Delaware	Mar. 12
Mar. 30	Asphalt Heaters—Milwaukee, Wis.	Mar. 26
Mar. 31	Concrete Mixer—Milwaukee, Wis.	Mar. 26
Mar. 31	Steel—Nebraska	Mar. 26
Mar. 31	Asphalt, Road Oil, etc. — Toronto, Ont.	Mar. 26
Mar. 31	Tractor, etc.—St. George, N. Y.	Mar. 26
Mar. 31	Rock Asphalt—Nashville, Tenn.	Mar. 26
Mar. 31	Brick, etc.—St. Paul, Minn.	Mar. 26
Mar. 31	Cement, etc. — Holyoke, Mass.	Mar. 26
Apr. 1	Basin Cleaning Machines — New York, N. Y.	Mar. 26
Apr. 1	Crane — Melbourne, Australia	Feb. 19
Apr. 2	Gasoline Loader, etc.—Minneapolis, Minn.	Mar. 26
Apr. 2	Screen and Loading Outfit—Fairbault, Minn.	Mar. 26
Apr. 3	Oil Distributor—Minneapolis, Minn.	Mar. 26
Apr. 3	Street Flusher and Truck — Wauwatosa, Wis.	Mar. 12
Apr. 4	Road Machinery—Bowbells, N. D.	Mar. 26
Apr. 4	Tractors—Austin, Tex.	Mar. 26
Apr. 6	Road Oil—Fresno, Calif.	Mar. 26
Apr. 7	Maintenance Machine—Stillwater, Minn.	Mar. 26
Apr. 8	Road Machinery—Fargo, N. D.	Mar. 19
Apr. 8	Asphalt, etc.—Springfield, Mass.	Mar. 26
Apr. 9	Graders—Trenton, N. J. Adv. Mar. 26.	Mar. 26
Apr. 22	Street Signs—Miami Beach, Fla. Adv. Mar. 26.	Mar. 26

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Me., Orono — Penobscott Water Co., having preliminary plans prepared by Metcalf & Eddy., archts. and engrs., 14 Beacon St., Boston, Mass., for filtration plant.

Mass., Boston — Dept. Pub. Wks plans new mains from reservoirs in Beacon St. and Commonwealth Ave. To exceed $15,000. J. A. Rourke, comr.

Mass., Lawrence—Plans sand filter, constructing and equipping turbine driven centrifugal pump and auxiliaries, 140 hp., filter capacity 5 m.g. per day. To exceed $15,000. Morris Knowles, Inc., Westinghouse Bldg., Pittsburgh, Pa., engrs.

N. C., Laurel Park — State Legislature authorized city of Laurel Park to issue $150,000 bonds water and sewerage systems.

N. C., Marion — State Legislature authorized city of Marion to issue $25,000 bonds improving and enlarging water and sewerage systems.

Ind., Lapel—Town Bd. plans waterworks supply system.

Ill., Oquawka—Soon takes bids waterworks, incl. pumping equipment, reservoir, distribution mains, etc. $20,000. Caldwell Eng. Co., 502 Ayres Bank Bldg., Jacksonville, engrs.

Ia., State Center—Making plans waterworks improvements, incl. reservoir, filtration plant, elevated tank and pumping station. $45,000. Brown & Cook, Ottumwa, engrs. Noted Mar. 5.

Minn., Stillwater — Voted $35,000 bonds waterworks improvements. J. A. T. Abercrombie, city engr.

Kan., Haviland—Election Apr. 7, $60,000 bonds for waterworks, incl. pumping equipment, tank on tower, distribution mains, etc. $60,000. E. T. Archer & Co., New England Bldg., Kansas City, Mo., engrs.

Kan., Larkin — Election Apr. 6, $33,000 bonds for waterworks and distribution system. E. T. Archer & Co., 612 New England Bldg., Kansas City, Mo., engrs.

Mo., Chaffee — Defeated $55,000 bonds, water extension, etc. Noted Feb. 26.

Tex., Abilene—See "Sewers."

Tex., Idalou—Takes bids after Mar. 30 new waterworks well, pumping equipment, tank and tower. $30,000 bonds voted. Montgomery & Ward, 1016 City Natl. Bank Bldg., Wichita Falls, engrs. Noted Mar. 12.

Tex., Port Lavaca—Election soon $60,000 bonds distribution system, and filter plant. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Oct. 2.

Okla., Tonkawa—Takes bids after Apr. 1, waterworks improvements, incl. 2 additional wells or dam across Chickasha River, and treatment plant. $35,000. Ruckel Eng. Co., Interurban Bldg., Hutchinson, Kan., engrs. Noted Feb. 19.

Ariz., Phoenix—Salt River Valley Water Users Assn., election Apr. 7, $450,000 bonds, additional pumping facilities on Salt River Project.

Calif., Hemet—Plans election $25,000 or more bonds for waterworks. F. Stetson, city engr.

Ont., Forest—Plans 25,000 ft. 6, 8 and 12 in. c.i. main extensions. $90,000. W. J. English, town clk.

Ont., North Bay — Making plans 10,000 ft. 6, 8 and 12 in. c.i. mains in various streets. $39,500. F. G. Mackie, town engr.

Ont., Toronto—East York Twp. Municipal Yard, Sammon Ave., plans 14,000 ft. 6 in. mains in various streets. $35,000. G. R. Jack, twp. engr.

B. C., Point Grey — Election Mar. 28, $150,000 bonds, extending waterworks. W. B. Greig, 5851 West Blvd., Vancouver, engr.

B. C., Vancouver—Takes bids about Mar. 20, 14½ mi. 36 in. steel riveted water main extensions, and 600 ft. tunnel at Burwell Lake. $1,250,000. C. Brackenridge, city engr.

BIDS DESIRED

Mass., Boston—Apr. 2, by Supply Dept., 1,200 tons 48-in. B. pipe, and twelve 36 in. gate valves for high pressure fire service to Pub. Wks., Dept. Water Serv. F. P. Rock, supt.

Mass., Brighton (Boston P. O.)—Apr. 2, by Pub. Wks. Dept., Boston, laying and relaying mains in Rogers Park Ave., Foster, Goodenough, Lake, Kendrick, Taylor and Willoughby Sts., here. $15,000. J. A. Rourke, comr.

New York — Apr. 6, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, furnishing and laying 6 in. c.i. main on Albany Post Rd. 3,000 ft. north of Harmon Sta. to Croton Point Park, J. Downer, ch. engr.; adv. E. N.-R. Mar. 26.

N. J., Trenton—Apr. 3, by City Comn., 225 tons 6 in. and 50 tons 4 in. pipe, 3,600 curb stops, 1,000 extension boxes, and 25 extension service boxes, etc. A. Bugbee, City Hall, engr.

N. C., Asheville — Apr. 9, in Council Chamber, City Hall, c.i. mains, concrete conduit and spillway, etc. C. E. Waddell & Co., Jackson Bldg., engrs.; adv. E. N.-R. Mar. 26.

O., Cincinnati—Apr. 6, by Director Pub. Serv., 300,000 sq.ft. granite pipe relining west basin of Eden Park Reservoir with 300,000 sq.ft. gunite concrete. $75,000. F. Krug, City Hall, engr.

O., Cleveland Heights (Warrensville P. O.)—See "Sewers."

O., Coitsville (Mail Youngstown) — Mahoning Co. (Youngstown), taking bids 13 mi. mains, here. $131,419.

Wis., Fond du Lac—Apr. 2, by Bd. Pub. Wks., J. F. Hohensee, secy., superstructure for 1 story, 44 x 160 ft., brick and concrete pumping station addition. J. E. Hennen, North Main St., engr.

Wis., Manitowoc — Apr. 3, by A. H. Zander, city clk., addition to water supply system. Former bids rejected. Noted Feb. 19.

Minn., Minneapolis — Apr. 6, by F. S. Gram, city purch. agt., steel pipe and fittings for filter plant under construction, 820 lin.ft. 54 in. riveted steel pipe ⅜ in. thick, 892 lin.ft. 54 in. riveted steel pipe 7/16 in. thick; 4,498 lin.ft. 50 x ⅜ in. or (alternate)

Waterworks (Continued)

in. lock bar steel pipe, etc. N. W. Elsberg, city engr.

Tex., Jayton—Taking bids waterworks, inc. tank and tower, 3 or 4 mi. 6 in. pipe line from present reservoir. $50,000. Montgomery & Ward, 1016 City Natl. Bank Bldg., engrs. Noted Mar. 12.

BIDS RECEIVED

Pa., Phila. — Dept. Pub. Wks., Bureau Water, small pipe lines in streets to be repaved, Contr. 743, from M. and J. B. McHugh, 892 North Markoe St., $34,205; (1) 600 fire hydrants, (2) three hundred 6 in. valves, (3) twenty-five 12 in. valves, Contr. 744, from Champan Valve Mfg. Co., 1011 Filbert St., (2 and 3) $10,395; from A. P. Simon Mfg. Co., East Orange, N. J., (1, 2 and 3) $48,490.

Wis., La Crosse—Dept. Pub. Wks., c/o W. Fries, secy., Mar. 12, extending 12,176 ft. 4- to 20-in. c.i. mains, 20,734 lb. special castings, 15 hydrants, etc., from De Graff Wolff, 985 Scheffer St., St. Paul, Minn., $43,450. Noted Mar. 5.

Wis., Milwaukee—Central Bd. Purchases, D. W. Hoan, chn., Mar. 17, to Water Dept., 1,000 tons 6 in., 1,000 tons 8 in., and 500 tons 12 in. c.i. pipe, from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago Ill., and Natl. Cast Iron Pipe Co., 122 South Michigan Ave., Chicago, Ill., each bid $47.50 per ton for all sizes of pipe; also two 54 in. gate valves, f.o.b. Milwakuee at Center St. team track of Chicago, Milwaukee & St. Paul R.R., from Kennedy Valve Mfg. Co., 116 East Miller St., Elmira, N. Y., $2,764 each.

Minn., St. Paul — H. W. Austin, city purch. agt., Mar. 10, one 300,000 gal. steel reservoir on concrete foundation, at McCarron's Station, from Pittsburgh-Des Moines Steel Co., 9th and Tuttle Sts., Des Moines, Ia., $8,680. Noted Mar. 5.

Mo., Kansas City—A. J. Stewart, purch. agt., Contr. 1, waterworks extension, 15,000 ft. concrete lined pressure tunnel, 7 ft. 6 in. inside diam. with uptake and downtake shafts, 280 ft. deep with appurtenances, from Smith Bros., 2701 Coombs St., Dallas, Tex., $1,372,300; Contr. 2, 11,000 ft. concrete lined pressure tunnel, 6 ft. inside diam. with uptake and downtake shafts and one intermediate construction shaft, 140 ft. deep with appurtenances, from A. L. Patterson & Co., Macon, Ga., $787,994; Contr. 6, 14,300 ft. 54 in. and 6,000 ft. 42 in. steel pipe conduit, etc., from Halpine Boyle Constr. Co., Kansas City, $625,980; Contr. 7, two 24 and eight 35 m.g. centrifugal pumps without motors three 3,500, two 500, and two 250 g.p.m. centrifugal pumps with motors, also erecting pumps and motors in Contr. 8, from D'Olier Centrifugal Pump Co., 165 Bway., New York City, N. Y., $50,000; Contr. 8, two 2,000 and eight 400 hp. synchronous motors and five 30 kw. motor generator sets, from Westinghouse Electric & Mfg. Co., Chamber of Commerce Bldg., Pittsburgh, Pa., $49,650; Contr. 9, 3 switchboards, etc., from Independent Electric Machine Co., 20th and Central Sts., $78,000; Contr. 10, one outdoor substation, from General Electric Co., River Rd., Schenectady, N. Y., $32,719; Contr. 14, valves, from Kennedy Valve Co., East Water St., Elmira, N. Y., $95,624; Contr. 15, c.i. pipe and castings, from Cast Iron Pipe & Fdry. Co., 604 Interstate Bldg., $171,065. Noted Feb. 19. Contr. 5, East Bottoms pumping station and reservoirs, from Carrothers Constr. Co., 310 Walsix Bldg., $682,220; Contr. 12, 24 m.g. filtration plant with filtered water basin of 2½ m.g. capacity, secondary pumping station for five 35 m.g. electric motor driven units, chemical store house equipped for manufacture of alum, chlorine house and appurtenances, from Chanute Constr. Co., Chanute, Kan., $1,228,971; Contr. 13, intake on Missouri River and low lift pumping station on both pile foundations, together with water screens, connecting pipes, footbridge, revetment work and appurtenances, from List & Weatherly Constr. Co., 416 Ry. Exch. Bldg., $222,350; Contr. 11, 4 concrete 3½ m.g. settling tanks, two 1 m.g. concrete mixing tanks, three 12½ m.g. coagulating basins, two 7½ m.g. concrete final basins, connecting conduits and drains, grading around structures and appurtenances, from J. Black Masonry & Constr. Co., 517 Federal Reserve Bank Bldg., Omaha, Neb., $1,663,020.

CONTRACTS AWARDED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Narrows Ave., etc., here, to Grippo Contg. Co., 85 Webster Ave., Long Island City, $10,500. Noted Mar. 19.

N. C., Charlotte—Sharon Water Co., laying 3½ mi. mains, etc., to connect with city waterworks, to W. A. Ebert, Latta Arcade, $50,000.

Miss., Natchez—Bd. Water Comrs., 500,000 gal. steel tank on 150 ft. tower, etc., to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill., approximately $30,000. Noted Feb. 26.

La., Mansura — Mayor and Bd. Aldermen, crude oil engines, power pumps, motor driven centrifugal pumps, c.i. pipe, etc., to A. M. Lockett Co. Ltd., 521 Baronne St., and General Electric Co., Maison Blanche Bldg., New Orleans, $21,400. Noted Feb. 12.

Wis., Milwaukee—Central Bd. Purchases, to J. B. Clow & Sons, 544 South Franklin St., Chicago, Ill., 22 tons pipe at $0.0725 per lb., for Water Dept.

Wis., Phillips—City Clerk, 22,850 ft. 4- to 8-in. c.i. main extensions, 32 valves, 35 hydrants, etc., to W. L. Martin, Albert Lea, Minn., $40,954. Noted Feb. 26.

Minn., St. Paul—To Waterous Fire Engine Wks., 80 Fillmore Ave. E., 200 single steamer 5 in. valve fire hydrants $82.02 each, and 20 double steamer 6 in. valve fire hydrants $105.82 each.

Tex., Galveston—Rein.-con. reservoir, to Davis-Price & Co., 1306½ Young St., Dallas, $108,950.

Ore., Portland—Fittings for Waterworks Dept., to Walworth Mfg. Co., 69 North 12th St., $48,458 (subject to 5% discount for cash in 30 days); pipe and fittings, to Pearless Pacific Co., Portland, $16,315 (subject to 2% discount for cash in 30 days).

Calif., Sacramento—For 190 ft. concrete chamber wall, 20 ft. high, etc., in filtration plant, to W. Murcell, Ochsner Bldg., $28,296. Noted Feb. 19.

Calif., Vallejo—City Council for electric welded steel pipe, 58,540 ft. 24 in. $\frac{3}{16}$ in. thick, 20,660 ft. 24 in. ¼ in. thick, and 35,620 ft. 22 in. $\frac{3}{16}$ in. thick, for Gordon Valley Municipal Water Project, to Western Pipe & Steel Co., 444 Market St., San Francisco, $344,000. Noted Feb. 19.

Sewers

PROPOSED WORK

N. C., Hamlet — State Legislature authorized city of Hamlet to issue $25,000 bonds sewerage purposes.

N. C., Laurel Park—See "Waterworks."

N. C., Marion—See "Waterworks."

O., Canton—Bd. Control soon takes bids Central South West Storm Sewer, Sect. 2, in 12th St. southwest from Dartmouth St. to west corporation line, and in Concord Ave. from 12th St. to point 260 ft. north. $55,273. W. E. Sarver, city engr.

O., Elyria — Making plans sewer lines and sewage treatment plant. $600,000. G. B. Gascoigne, 1149 Leader-News Bldg., Cleveland, engr.

Mich., Detroit—Made plans sewers (**L. means Lateral**) 701 ft. 4 ft., 874 ft. 3 ft. 6 in., 296 ft. 3 ft. and 286 ft. 2 ft. 6 in. cylinder, 299 ft. 24 in., 125 ft. 20 in., 3,295 ft. 18 in., 4,543 ft. 15 in., and 4,268 ft. 12 in. vitr. pipe in L. 4268; 259 ft. 20 in. vitr. in. L. 4287; 5,073 ft. 12- to 20-in. in L. 4298, 2,813 ft. 12- to 24-in. in L. 4299; 2,318 ft. 12- to 20-in. in L. 4301; 2,544 ft. 12- to 24-in. in L. 4302; 1,414 ft.. 12- to 18-in. in L. 4304; 6,823 ft. 12 in. to 4 ft., 1,016 ft. 4 ft., 159 ft. 2 ft. 9 in. and 606 ft. 2 ft. 6 in. cylinder in L. 4305; 9,351 ft. 12 in. to 3 ft. 6 in. 110 ft. 3 ft. 6 in., and 299 ft. 3 ft. cylinder in L. 4306; 3,085 ft. 12- to 24-in. vitr. in L. 4307; 5,620 ft. 12- to 24-in. vitr. in L. 4310; 6,711 ft. 12- to 36-in. vitr. and 130 ft. 36 in. cylinder in L. 4314; 1,947 ft. 15- to 18-in. vitr. in L. 4316; 2,298 ft. 12- to 24-in. vitr. in L. 4217; 1,445 ft. 12- to 18-in. vitr. in L. 4319; 9,149 ft. 12- to 24-in. vitr. in L. 4320; 1,610 ft. 12- to 20-in. vitr. in L. 4223; 692 ft. 12- to 15-in. vitr. in L. 4327; 368 ft. 15 in. vitr. in L. 4324; and 469 ft. 12- to 15-in. vitr. in L. 4328. G. Jerome, city engr.

Ill., Lake Forest—North Shore Sanitary Dist., J. Oliver, pres., Highland Park, making preliminary plans disposal plant, incl. Imhoff tank, sludge beds, chlorinating tank and grit chamber. $35,000. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.

Ill., Morris—Postponed indefinitely taking bids which were to be received about Mar. 15, sanitary sewerage system. $26,000. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs. Noted Feb. 19.

Mo., St. Clair—Plans complete sanitary sewerage system. $25,000 bonds election in April. Alexander Eng. Co., 517 Woodruff Bldg., Springfield, engrs.

Tex., Abilene—Making plans purification plant and extending water-mains and sewers. $50,000. J. B. Hawley, 403 Cotton Exch. Bldg., Ft. Worth, engr. Noted Mar. 5.

Tex., San Angelo — Election Apr. 11, $275,000 bonds complete sanitary sewerage system with disposal plant. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Feb. 10.

Tex., Weslaco — Voted $25,000 bonds, sanitary sewers. R. E. Snodgrass, mayor.

Okla., Holdenville—Election Apr. 7, $96,000 bonds, new sewage disposal plants and 15,600 ft. 12 and 15 in. vitr. clay outfall sewers, Imhoff tanks, etc. C. H. Edge, Holdenville, engr. Noted Mar. 5.

Calif., Los Angeles — Rescinded contract for sewers in Central Ave. between Florence and Manchester Aves. Noted Jan. 22.

Calif., Pomona — Plans sewage disposal plant. $85,000 or more. F. C. Froehde, city engr.

Calif., San Dimas — Plans Elrod treatment plant for sewage disposal. To exceed $25,000.

Calif., San Francisco—See "Streets and Roads."

Calif., San Luis Obispo—Plans completed sewage disposal plant replacing present sewer farm. To exceed $25,000. Engineer not selected.

Calif., Venice — Plans sewers in Rialto, Linden, Lincoln Sts., etc. To exceed $25,000. H. D. Chapman, city engr.

BIDS DESIRED

Massachusetts—Apr. 2, by Metropolitan Dist. Co., 1 Ashburton St., Boston, 3,325 lin.ft. sewer in Mill Brook Valley Sewer Sect. 78, North Metropolitan System in Arlington and Medford. $40,000 bonds voted. Noted July 31.

N. Y., Long Island City—Mar. 27, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., sewers in Bway., 40th Rd. and Winthrop Ave.

N. Y., New York—Apr. 2, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in DeWitt Pl., Knapp St., Gun Hill and Eastchester Rds., Riverdale, Mace, Seymour, Arnow, Morgan, Hammersley and Adee Aves.

N. Y., St. George — Mar. 30, by J. A. Lynch, pres. Richmond Boro, Boro Hall, sanitary sewers in New Dorp, Oakwood and vicinity.

N. J., Trenton — Apr. 10, by Bd. City Comrs., constructing sewage disposal plant, etc. A. C. Gregory, Municipal Bldg., sewer engr. G. A. Johnson & G. L. Watson, 150 Nassau St., New York City, associated consult. engrs.; adv. E. N.-R. Mar. 26.

N. J., Westwood — Apr. 21, by Mayor and Council, 17 mi. sanitary sewers. T. F. Bowe, 110 William St., New York City, consult, engr.; adv. E. N.-R. Mar. 26.

Ky., Glasgow — Apr. 15, by Sewerage Committee, L. M. Goodman, chn., 39,000 ft. 8- to 12-in. vitr. sewers and sedimentation tank. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs.; adv. E. N.-R. Mar. 26.

O., Cleveland — Apr. 2, by City, sewers in Issler Court, Bellaire Rd., Schuyler and Stickney Aves., East 39th, West 55th, 152nd and 159th Sts. R. Hoffman, City Hall, engr.

O., Cleveland Heights (Warrensville P. O.)—Taking bids sewer and water mains in Boynton, Castleton, Hazelton, Radcliff, St. Albans and Woodridge Rds. To exceed $100,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Portsmouth—Apr. 8, by C. W. Wilson, Dir. Pub. Serv., sewage treatment plant, in Sciotoville Dist. known as Div. "B" of Sciotoville Sanitary Sewerage System. C. S. Stevenson, city engr.; adv. E. N.-R. Mar. 26.

Mich., Flint—Apr. 17, by F. D. King, city clk., intercepting sewer and inverted siphons, Contr. S. D. 2. J. L. Transue, mayor; adv. E. N.-R. Mar. 26.

Minn., St. Paul—Mar .31, by H. W. Austin, city purch. agt., constructing Belt Line, Phalen and Hazel Park sewerage system, Contr. B, Margaret-Minnehaha Branch. $275,000. G. M. Shepard, city engr. Noted Jan. 29.

Tex., San Augustine—Taking bids enlarging and improving sewerage system. $35,000. W. B. French, San Augustine, engr. Noted Jan. 28.

BIDS RECEIVED

Md., Baltimore—Bd. Awards, City Hall, Mar. 11, 11,500 ft. main and lateral sewers in Sanitary District. G-13, Contr. 219, from Adams & Marino Co., 216 St. Paul St., $86,653.

O., Akron—W. F. Peters, dir. Pub. Serv., Mar. 16, Case and Johnson Sts., Trunk Sewer, 3,100 ft. long, and Willow Run Trunk Sewer, 5,200 ft. 24- to 90-in. brick pipe, from McAlonan Bros., 506 Woodland Ave., $65,203 and $284,975 respectively, engrs. est. $99,950 and $320,000 respectively; Portage-Sunnyside Dist. Trunk Sewer, 3,850 ft. 36- to 60-ft. rein.-con. and brick pipe, from F. George, 1657 Mahoning Ave., Youngstown, $56,422, engrs. est. $74,000. Noted Mar. 5.

Ill., Decatur — Bd. Trustees Sanitary Dist., Mar. 9, 4,200 ft. intercepting and

Sewers (Continued)

1,900 ft. overflow sewers, etc., from File & Collins, Decatur, monolithic construction in open cut and segmental tile in tunnel $147,000; W. L. Martin, Albert Lee, Minn., concrete pipe in open cut and segmental tile in tunnel $162,902, segmental tile throughout $158,818. Noted Feb. 12.

Mo., Farmington — See "Streets and Roads."

Calif., Corona — City Clerk, Mar. 10, sewage treatment plant, from R. F. Ware, 2146 East 38th St., Los Angeles, $100,922. Engrs. est. $101,500. Noted Nov. 13.

Calif., Los Angeles — Supervs. Los Angeles Co. Drainage Impvt. Dist. 11, Mar. 9, 218,000 cu.yd. excav., 47,400 cu.yd. concrete, 4,750,000 lb. steel, 30,540 ft. 6- to 10-in. vitr. concrete pipe, 22,430 ft. 24- to 72-in. rein.-con. pipe, 6,400 sq.yd. macadam paving, 6,000 cu.yd. sand and gravel, 40,000 ft. treated timber piling, 3,500 ft. 18 in. vitr. or concrete connecting pipe, etc., from T. Kelly & Sons, Hill-Street Bldg., approximately $1,474,000. Noted Feb. 26.

CONTRACTS AWARDED

O., Euclid—Sewers in Bliss Rd., 1st Sect., to Hadded-Mall Co., Schofield Bldg., Cleveland, $22,950; 2nd Sect., to C. Hadded, Davis & Farley Bldg., Cleveland, $11,880.

O., Portsmouth—C. W. Wilson, dir. Pub. Serv., separate sanitary and storm sewers, to S. E. Frowine, 1664 Highland Ave., $61,264. Noted Feb. 5.

Mich., Detroit — To Detroit Drainage Constr. Co., 5099 Lemay Ave., vitr. crock sewer in Lateral 4297 $3,700, Lateral 4300 $5,365, Lateral 4303 $19,995, and Lateral 4308 $12,597.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., 4,363 ft. 30 in. concrete and 5,144 ft. 18 and 24 in. terra cotta sewer, etc., in Sect. 2, Lincoln Ave., to G. E. Zimmermann, 3402 Grand Ave., $215,626. Noted Mar. 12.

Wis., Phillips—City Clerk, 15,000 ft. 8 in. vitr. sewer tile, 11,200 ft. 10- to 15-in. sewers in various streets, disposal plant, etc., to Eklund Constr. Co., 14 North 58th Ave., West Duluth, Minn., $37,775. Noted Feb. 26.

Ia., Correctionville—For 23,000 ft. 8- to 12-in. sewers in various streets, 75 manholes, Imhoff tank, etc., to E. L. Royer Constr. Co., Des Moines, $35,500. Engrs. est. $40,000. Noted Feb. 26.

S. D., Madison — Sewage disposal plant, to McHose Sand & Tile Co., 1st Natl. Bank Bldg., Boone, Ia., $47,649.

Okla., Pittsburg—City Clerk, 18,200 ft. 6- and 12-in. vitr. clay sewers in all streets, septic tank, etc., to Sherman Iron Wks., 18 East Main St., Oklahoma City, $26,120. Engrs. est. $27,000. Noted Mar. 12.

Calif., Glendale — City Clerk, lateral sewers in Sect. 4, to J. Artukovich, 614 North Bunker Hill, Los Angeles, $17,286; Sects. 5, 8 and 11, to Culjak & Bebeck, 425 West 78th St., Los Angeles, $101,436; Sects. 6, 7, 9, 10 and 11, to J. G. Donovan, 741 Lyon St., $68,280. Noted Feb. 5.

B. C., South Vancouver—Will lay 6.04 mi. sewers at Ceddar Cottage on 20th to 34th Aves., by day labor. $147,000. E. D. Todd, Municipal Hall, engr.

Waste Disposal

PROPOSED WORK

Ont., Toronto—Plans garbage incinerator, concrete, brick and steel, Wellington St. $85,000. R. C. Harris, city engr.

BIDS DESIRED

N. C., Durham—Apr. 3, by A. T. Crutchfield, city purch. agt., 3 incinerators; adv. E. N.-R. Mar. 26.

CONTRACTS AWARDED

N. Y., Rye—W. Selzer, village clk., 30 ton incinerator north of Rye Beach Ave. and west of Blind Brook, to Morse-Boulger Destructor Co., 39 Cortlandt St., New York City, $41,976. Noted Mar. 12.

Mo., Kansas City—New garbage disposal system for 10 year period, to P. Patton, 1700 Campbell St., $2,943,920. Contractor plans to expend $250,000 on equipment incl. trucks, tractors, trailers and wagons. Noted Feb. 26.

Tex., Lubbock—Owner, c/o J. R. Germany, one 20 ton incinerator, to Natl. Incinerator Co., Dallas, Tex., $21,818. Engrs. est. $25,000.

Bridges

PROPOSED WORK

La., Shreveport—Making plans 2,500 ft. rein.-con. and steel viaduct, over Kansas City Southern and Louisiana & Arkansas Ry. tracks. $500,000. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs.

Ohio—See "Streets and Roads."

Mich., Monroe—Detroit & Ironton Ry., Springwells, made plans six 45 ft. span rein.-con. bridge, 20 ft., with ballasted deck 8 ft. high above Raisin River, in Raisinville Twp. $160,000. W. E. Wilkie, Springwells, bridge supt.

Tex., San Angelo—City election Apr. 11 (extended date) $20,000 bonds concrete and steel bridge over North Concho River on Abe St., for City and Tom Green Co. Terrell Bartlett Engineers, 612 Calsasieu Bldg., San Antonio, engrs. Total $40,000. Noted Mar. 12.

Tex., San Antonio — Bexar Co. making plans 110 ft., steel and concrete bridge over San Antonio River, on St. Marys St. $45,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., engrs.

California — State Hy. Comn., Sacramento, rejected bids Mar. 2, 2,180 ft. rein.-con. span bridge over San Juan Creek, Ornage Co. Noted Mar. 12.

California—State Hy. Dept., Sacramento, making plans bridge across Coachella storm water drain, Riverside Co. $35,000. Riverside Co. appropriates $18,000 toward cost. R. M. Morton, highway engr.

Calif., San Francisco — City and San Francisco Co. making plans rein.-con. bridge at San Jose Ave. $175,000-$200,000. M. M. O'Shaughnessy, city engr.

Ont., Toronto — Plans rebuilding North Glen Rd. Bridge, 650 ft. long, 66 or 86 ft. wide, steel arches, concrete piers and abutments. $600,000. R. C. Harris, city engr.

Que., Les Ecoumains—Plans constructing bridge. $35,000. Engineer's name withheld. J. Bouliane, city secy.

Que., Montmorency—Dept. Pub. Wks., City Hall, Quebec, plans 230 ft. span bridge over Montmorency River, here. $2200,000. A. Surveyor, 274 Beaver Hall Hill, Montreal, engr.

B. C., Vancouver—See "Unclassified."

BIDS DESIRED

Mass., Leominster — Mar. 30, by Pub. Wks. Dept., 2 arch 65 ft. rein.-con. bridge over Nashua River, at Merrimac St. To exceed $25,000. S. J. Pitcher Co., Worcester, engrs.

N. J., Red Bank—Apr. 6, by State Hy. Comn., Trenton, constructing new highway bridge over Navesink River at M. P. 90.8, Route 4, near here, Monmouth Co.; adv. E. N.-R. Mar. 26.

Pa., Phila.—Apr. 15, by Delaware River Bridge Joint Comn., 806 Widener Bldg., steel reinforcing trusses for bridge over Delaware River connecting cities of Phila. and Camden, Contr. 21 A. G. Pinchot, chn.; adv. E. N.-R. Mar. 26.

S. C., Georgetown — See "Streets and Roads."

S. C., Kingstree—Apr. 2, at office Supervisor Williamburg Co., five treated timber bridges over Black River on State Route 412, State Project 563. State Highway Engineer, 1626 Main St., Columbia, engr.

O., Dayton—Apr. 17, at office Dept. Pub. Serv., Island Park Bridge, concrete over Great Miami River, at Helena St. G. F. Maker, dir.; adv. E. N.-R. Mar. 26.

Mich., Detroit — Apr. 21, by Bd. Rd. Comrs. Wayne Co., 1103 Real Estate Exch. Bldg., substructure of double leaf bascule bridge, at Dix Ave. crossing of Rouge River; adv. E. N.-R. Mar. 26.

North Dakota — Apr. 6, by State Hy. Comn., Bismarck, 2 bridges over Missouri River, one at or near Sanish, and other at or near Williston. W. G. Black, ch. engr. and secy.; adv. E. N.-R. Mar. 26.

Washington—Apr. 7, by State Hy. Comn., Olympia, 221 ft. T beam type rein.-con. bridge on State Rd. 2, King Co. J. Allen, state highway engr.

California—See "Unclassified."

Que., St. Aubert—Apr. 1, by A. Dube, 85 ft. concrete bridge, for City. $30,000. I. E. Vallee, c/o Dept. Pub. Wks., Quebec, engr.

BIDS RECEIVED

Pa., Oakdale — Alleghany Co. (Pittsburgh) concrete and stone bridge over Robinson Run, joining State St. and Union Ave., here, from M. G. Moshitis, Arrott Bldg., Pittsburgh, $45,974. Engrs. est. $49,000.

Delaware—State Hy. Dept., Dover, 148 ft. concrete bridge at Rehoboth. Contr. SC 30 A, from A. S. Fox, 15 West Side Building & Loan Bldg., Dayton, O., $30,647. Noted Mar. 5 under "Streets and Roads."

Md., Baltimore—Bd. Awards, constructing Rogers Ave. Bridge, steel and concrete, at Western Maryland Ry., from H. L. Straus, Eureka Life Bldg., $58,000. Noted Mar. 5.

Calif., Bandini (Mail Rivera) — Union Pacific Ry., Pacific Electric Bldg., Los Angeles, 500 ft. rein.-on. bridge, 60 ft. over Telegraph Rd. here, from Ryberg Bros., Kerns Bldg., Salt Lake City, Utah, approximately $30,250.

CONTRACTS AWARDED

Va., Roanoke — Constructing 13th St. Bridge over Roanoke River, to W. W. Boxley & Co., Roanoke, $258,043.50. This corrects report in Mar. 19 issue.

S. C., Winnsboro—Fairfield Co., 394 ft. rein.-con. bridge over Little River, on Winnsboro-Newberry Rd., to Latimer & Peake, Batesburg, $27,076.

Fla., Tampa — City Comn., City Hall, 2 strauss trunnion bascule bridges over Hillsborough River, 1 on Platt St. and other on Cass St., to Tibbets. Pleasant, Green & Beckman, Tulsa, Okla., $400,000. Noted Mar. 5.

Ohio—See "Streets and Roads."

Ia., Toledo—Tama Co., 2 I-beam bridges, to Perry Constr. Co., Perry, $8,781; two pony truss bridges, to A. Nulberg, Vinton, $4,403; one 40 ft. I-beam approach with pier and abutments and removal of 90 ft. span, to Fifield Constr. Co., Waterloo, $14,862.

Neb., Red Cloud—Webster Co. repairing existing concrete and steel bridge over Republican River, 1.5 mi. south of here, to General Constr. Co., 722 Peters Trust Bldg., Omaha, $30,000.

S. D., Forest City — State Hy. Comn., Pierre, highway bridge over the Missouri River, here, to St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo. Former contract rescinded. Noted Jan. 1.

Colorado—State Hy. Dept., Denver, 325 ft. steel bridge over Apishapa River, also 30 ft. bridge over nearby canal with gravelled approaches, to L. F. Williams, 347 Thatcher Bldg., Pueblo, $56,435. Noted Mar. 5.

Ore., Myrtle Point — State Hy. Comn., Salem, to P. Hennessy, Marshfield, bridge over North Fork Coquille River, near here, Coos Co., 1,390 lin.ft. trestle $17 per lin.ft., 40,000 ft. lumber $15, 125,000 lb. structural steel $0.075 and 21,000 lb. reinforcing $0.07, etc., total $50,260.

Dams

PROPOSED WORK

Calif., Banning—See "Excavation, Drainage, Irrigation, Levees."

Que., St. Joseph D'Alma—Price Bros & Co., 56 St. Pierre Ave., Quebec, plans new concrete dam, here. $2,000,000. H. Cimon, 144 Grande Allee, Quebec, engr.

Railways

PROPOSED WORK

North Carolina — State Legislature authorized Blowing Rock Twp. in Watauga Co. to issue $30,000 bonds to aid construction of Linville River Ry. L. A. Green, Sands, chn. Bd. Comrs. Watauga Co.

Florida — Seaboard Air Line Ry., 107 Plume St., Norfolk, Va., plans 20 mi. railroad from Brooksville to Inverness, here. $400,000. W. D. Faucette, ch. engr.

BIDS DESIRED

Massachusetts — Eastern Massachusetts Street Railway Co., 1 Beacon St., Boston, taking bids about 6,500 ft. railway track on Hancock St., in Quincy. Private plans.

Ontario and Quebec — Apr. 6, by W. H. Maund, secy. treas. Nipissing Central Ry., North Bay, Ont., extending 37 mi. single track railway from Larders Lake Sta. Ont. to Osisko Lake, Rouyn Twp., Que., incl. earth and rock excav., piling, concrete culverts, bridges (except steelwork on bridges), timber trestles, etc. $1,750,000. S. B. Clement, ch. engr.

CONTRACTS AWARDED

Kansas—Atchison, Topeka & Santa Fe R.R. Co., Railway Exch. Bldg., Chicago, Ill., Topeka. O. J. Ogg, div. supt., Hutchinson, will lay tracks, etc., in Hutchinson, by day labor. $200,000. C. E. W. Felt, ch. engr.

Missouri — Missouri, Kansas & Texas R.R., Railway Exch. Bldg., St. Louis, will build concrete pier and pile trestle approach to bridge on Houston division, $50,000; additional trackage at Springtown, Okla., $21,000; car sidings, cinder pit, etc., at McKittrick, Mo., $30,000; replace 341 ft. pile trestle with creosoted ballast deck trestle on Dallas division, $19,000, by day labor. F. Ringer, ch. engr. This corrects report in Mar. 12 issue.

Missouri—Kansas City Terminal Rys. Co., Union Sta., Kansas City, will build new store room and lay about 1 mi. new switch track, by day labor. $150,000. J. V. Hanna, ch. engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Kan., Wichita — Making preliminary plans retaining walls, levees and rip rap fill on west bank of Little Arkansas River between Woodman and Grieffenstein Bridges. $25,000. P. L. Brockway, City Hall, engr.

Calif., Banning—A. Violette (interested), 908 Almitos Ave., Long Beach, plans irrigating 20,000 acres, constructing 50,000 acre ft. concrete storage dam, 50 ft. high, 350 ft. long and 6½ ft. wide on top, 250 ft. long on bottom, 3 mi. flume 4 ft. dia. concrete or metal conduit, 11 mi. 4 x 4 ft. earth ditch. $250,000.

BIDS DESIRED

New York—Apr. 16, by R. K. Fuller, comr. Canals & Waterways, 55 Lancaster St., Albany, excavating Erie Canal, Sect. 5, Contr. 225; Champlain Canal, Sects. 1 and 2, Contr. 226, in old Erie Canal prism, Terminal Contr. 97 (revised), and Barge canal terminal harbor at Albany, Terminal Contr. 99; Apr. 17, Erie Canal, Sects. 2 and 3, Contr. 223; Apr. 18, Erie Canal, Sect. 4, Contr. 224; adv. E. N.-R. Mar. 26.

Md., Baltimore—Apr. 1, by Bd. Awards, City Hall, dredging in harbor. F. W. McKinney, Recreation Pier, acting harbor engr.

Miss., Cleveland — Apr. 10, by Comrs. Clear Creek D. D., Bolivar Co. at office W. W. Boone, engr., Cleveland, 210,025 cu.yd. excav. on Ditch A and 11,600 cu.yd. excav. on Ditch C.

Tex., Corsicana — Texas Constr. Co., Trinidad, taking bids 2 mi. dyke, containing 300,000 cu.yd., on Trinity River 20 mi. east of here. B. I. Moran, Trinidad, supt.

Calif., Long Beach—City Council taking bids dredging 1,000 ft. harbor entrance channel, 25 ft. deep, 200 ft. wide at bottom, (additional 10 ft. dredged later) total project requires 2,820,000 cu.yd. excav. $85,000. R. D. Van Alstine, city engr.

Calif., Vista—Apr. 3, by Directors Vista Irrigation Dist., irrigation work, incl. 204 ft., 1,340 ft. and 530 ft. tunnels; 35,500 ft. Gunite bench flume, 43,000 cu.yd. excav.; 18,700 ft. 28 in. riveted steel or 27 in. lock-bar pipe or as an alternative 18,700 ft. 36 in. riveted steel or 35 in. lock-bar pipe; 7,360 ft. 42 in. gravity concrete, and 3,950 ft. 42 in. rein.-con. pipe line. J. B. Lippincott, Central Bldg., Los Angeles, engr. Noted Sept. 18.

Ontario—Apr. 6, by F. Ritchie, clk. West Gwillimbury Twp., Gilford, Holland River Marsh drainage system, consisting of reclaiming and draining part of Holland Marsh in West Gwillimbury and King Twps., and in village of Bradford. $150,000. A. Baird, Royal Bank Bldg., Sarnia, engr.

BIDS RECEIVED

Calif., Los Angeles—See "Sewers."

CONTRACTS AWARDED

La., Port Allen — Bd. Comrs. Choctaw Basin D. D., W. L. Bernard, secy., drainage canals and clearing right of way in gravity Sub-Dist. 1, West Baton Rouge Parish, 800,000 cu.yd. excav., 164 acres clearing, etc., to J. Kohler, Memphis, Tenn., $95,250. Noted Mar. 5.

Mo., Bigelow—Big Tarkio D. D. will excavate 850,000 cu.yd. material, by day labor, Leslie Eng. Co., 820½ Felix St., St. Joseph, engrs.

Tex., Eagle Pass — See "Streets and Roads."

Calif., San Francisco—State Bd. Harbor Comn., Ferry Bldg., 160,000 cu.yd. dredging trench, to Amer. Dredging Co., 255 California St. $48,000 and to F. W. Camp, 734 Bush St., Proposals 1 and 2 each $0.60 per ton. Constructing dike, 172,000 to 200,000 tons native rock, Noted Mar. 12.

Streets and Roads

PROPOSED WORK

Massachusetts — Dept. Pub. Wks., Div. Highways, Court House, Boston, plans probably bituminous macadam paving 2¾ mi. road from Templeton to East Templeton. To exceed $50,000. State and towns appropriate toward cost. W. F. Williams, comr.

Massachusetts — Dept. Pub. Wks., Div. Highways, Court House, Boston, plans cement paving about 5 mi. from Wrentham to Plainville, 60 ft. $250,000. W. F. Williams, comr.

Mass., Dorchester (Boston P. O.)—City of Boston plans paving Hallet and Christopher Sts., here. $30,000. J. A. Rourke, Dept. Pub. Wks., Boston, comr.

Mass., Milton—Bd. Selectmen plans new roads and street improvements. $95,000 appropriated. Engineer not selected.

Mass., West Roxbury (Boston P. O.) — City of Boston, plans constructing Brandeen St. from Washington St. to Rosindale Brook, here. $25,000. J. A. Rourke, Dept. Pub. Wks., Boston, comr.

N. Y., Buffalo—Erie Co. plans widening 18 mi. Niagara Falls Blvd. to 40 ft., concrete. To exceed $200,000. G. C. Diehl, Ellicott Sq. Bldg., engr.

W. Va., Buckhannon — Voted $65,000 bonds, paving various streets. H. G. Storm, Buchannon, engr.

Miss., Bay St. Louis—Making preliminary plans grading, curbing and hard-surfacing various streets. $180,000.

Miss., Laurel—Jones Co. voted $75,000 bonds improving roads in Beat Three.

Miss., Ripley—Tippah Co. defeated $300,000 bonds for roads. Noted Feb. 19.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 6 mi. highway from Federal Aid Project 8 to Tipton Co. line. J. G. Creveling, highway comr.

Tenn., Ashland City — Cheatham Co. making surveys improving 16 mi. Ashland City-Kingston Springs Rd.

Tenn., Memphis—Shelby Co. plans grading, curbing, asphalt on concrete and old brick surfacing 3,120 ft. Jackson Ave. from Manassas to Breedlove Sts. $29,768. W. Fowler, Court House, engr.

Ohio—Dept. Highways and Pub. Wks., Columbus, rejected bids Feb. 20, grading, bridging and rein.-con. paving 0.979 mi. and 0.637 mi. Sect. "Newcomerstown" Uhrichsville-New Comerstown Rd., Tuscarawas Co. Noted Feb. 12.

O., Canton — Plans grading, widening and sheet asphalt or brick repaving 2nd St. N. W., $38,100; grading, paving, curbing and laying sidewalks on 8th St. N. W. $52,418; grading, brick guttering, concrete curbing and sidewalks on Lafayette St. S. E., $25,000-$35,000. W. E. Sarver, City Hall, engr.

O., Canton—Bd. Control takes bids in spring improving Cherry Ave. S. E., and Sherrick Rd. S. E. $80,000. W. E. Sarver, City Hall, engr.

O., Cincinnati — Hamilton Co., Court House, plans resurfacing various roads, 165,000 gal. tar and 4,820 cu.yd. sand, $49,055. E. A. Gast, Court House, engr.

O., Cincinnati—Hamilton Co. plans surface treating various roads, 105,500 gal. heavy oil and 5,600 cu.yd. sand. $48,165. E. A. Gast, Court House, engr.

O., New Waterford — Plans improving South Main St. to intersection of Middletown Rd. $25,000.

O., Zanesville — Muskingum Co. takes bids in spring improving 2 mi. Chandlersville Rd., 18 ft. $65,000.

Ind., Bloomfield—Greene Co. plans grading and graveling 3 mi. Fitzpatrick Rd., 24 ft. $26,000. H. Schlott, Bloomfield, engr.

Ind., Bluffton—Wells Co. plans grading and graveling Herrmann Rd., 24 ft. $25,368. C. Devenport, Bluffton, engr.

Ill., Belleville—Making preliminary plans grading curbing and concrete surfacing McClintock Ave. Paving Dist. $81,000. C. A. Hunzleman, city engr.

Ind., Decatur—Adams Co. plans grading and crushed stone paving 2.56 mi. Mills Rd., 24 ft. $26,000. D. Boch, Decatur, engr.

Ind., Plymouth—Marshall Co. plans grading and graveling 3 mi. Krouse Rd., 24 ft. $26,000. J. Hildbrand, Plymouth, engr.

Ind., Portland—Jasper Co. plans grading and graveling 2.9 mi. Luers Rd., 24 ft. $25,800. H. Teeters, Portland, engr.

Wisconsin—Darlington Co. voted $29,068 bonds improving various roads in towns of Wiota, Belmont, Seymour, Lamont, Kendall, Willow Springs, Fayette, Schullsburg and New Diggings, H. I. Shockley, comr.; Hurley Co., $30,881 bonds in Mercer, Anderson, Saxon and Sherman, W. Weber, comr.; Jefferson Co., $103,836 bonds in Concord, Ixonia, Koshkonong, Waterloo, Sumner, Palmyra, Cold Springs, Aztalan, Farmington, Milford, Sullivan and Lake Mills, R. D. Royce, Jefferson, comr.; Kenosha Co., $141,476 bonds in Paris, Bristol, Salem, Randall, Wheatland, Pleasant Prairie and Somers, J. Herzog, comr.; Kewaunee Co., $80,550 bonds in Casco, Ahnapee, Carlton, Franklin, Lincoln, Luxemberg, Montpelier, Red River, West Kewaunee, Algoma and Kewaunee, H. Griese, Kewaunee, comr.; La Crosse Co., $144,811 bonds in Burns, Greenfield, Holland, Washington and Bangor, J. Hintgen, comr.; Mauston Co., $19,256 bonds in Plymouth, Wonewoc, Finley, Clearfield, Armenia and Kingston, A. V. Robison, New Lisbon, comr.

Wis., Beloit—Bd. Pub. Wks. soon takes bids sheet asphalt, rein.-con., asphaltic concrete or 3 in. vertical fibre brick paving 112,000 sq.yd. 26 streets. G. E. Heebink, City Hall, engr. Noted Aug. 14.

Wis., De Pere — M. J. Maes, city clk., soon takes bids rein.-con., sheet asphalt, Warrenite or vibrolithic concrete paving 12,172 sq.yd. Huron St. and 11,880 sq.yd. Wisconsin St. F. M. Charlesworth, Jr., City Hall, Kaukauna, engr. Noted Nov. 27.

Wis., Kaukauna—L. C. Wolf, city clk., soon takes bids rein.-con., vibrolithic concrete, Warrenite concrete or sheet asphalt paving, 14,560 sq.yd. Draper and Taylor Sts. F. M. Charlesworth, Jr., City Hall, engr.

Wis., Marinette—Making plans rein.-con. paving 6 blocks Carney Blvd. To exceed $25,000. A. L. Hillis, City Hall, engr.

Minn., Moorhead—Plans paving 8 blocks 7th St. S., between 1st and 9th Aves. $35,000. R. G. Price, city clk.

Kan., Fredonia—Wilson Co. making preliminary plans grading, etc., 14 mi. various primary roads, 28 ft. C. P. McDonald, Fredonia, engr.

Kan., Kansas City—Wyandotte Co. plans grading and concrete surfacing 1 mi. Woestemeyer Rd., and 2.5 mi. Woodward, Buchan and Garrett Rds., both 18 ft.; also grading and waterbound surfacing 1.5 mi. W.-P. Overton Rd., 16 or 18 ft. O. K. Williams, Court House, engr.

Kan., Kansas City—Wyandotte Co. plans grading and bituminous macadam paving 3 mi. H. Olsen and Thomas Mann Rd.; grading and waterbound or bituminous macadam paving 4½ mi. Samuel Clarke Highway; and concrete paving 4 mi. Leavenworth Rd., all 18 ft. O. K. Williamson, Court House, engr.

Mo., Kirksville—Plans paving 27 blocks various streets. B. Crabtree, Kirksville, engr.

Mo., St. Louis—Bd. Pub. Wks., 208 City Hall, soon takes bids grading Graham St. $2,390; granite curbing and Willite surfacing Kansas Ave. $14,160; granite curbing, asphalt on concrete surfacing Ruskin St. $39,000 and West Park St. $48,090; concrete curbing and paving Veronica St., $10,500. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis — Bd. Pub. Serv. made plans grading, paving, etc., 18 alleys in City Blocks 1562, 1570, 1645, 2729, 2759, 2760, 2997, 3686, 4517-N, 4602-E, 5127, 5364, 5429-A and B, 5525, 5531, 5532, 5121, concrete $65,960, or brick on concrete $98,880. W. W. Horner, 300 City Hall, engr.

Mo., Webb City—Election Apr. 7. $15,000 bonds (city's share) for street work. Total between $21,000 and $25,000.

Ark., Hot Springs — Making preliminary plans grading and gravel surfacing 4 mi. in Hot Springs Natl. Park, 18 ft. $53,000. J. Bolton, Hot Springs, supt.

Tex., El Campo—Election soon $60,000 (or more) bonds paving various streets. Address W. L. Ballew, mayor.

Tex., Falfurrias — Brooks Co. making plans concrete paving 14.18 mi. State Highway 12, 18 ft. $300,000. R. Harrison, Falfurrias, engr.

Tex., Falfurrias — Brooks Co. making plans concrete surfacing 2.52 mi. State Highway 12, 18 ft. $38,000. R. Harrison, Falfurrias, engr.

Tex., Gonzales — Gonzales Co. making plans asphalt macadamizing 19 mi. State Highway 81, 18 ft. $336,000. J. G. Irby, Gonzales, engr.

Tex., Groesbeck—Limestone Co. making plans hard surfacing 40 mi. Dists. 4, 12 and 16, 16 ft. $1,300,000 bonds voted. H. Boyett, Pittman Bldg., Mexia, engr.

Tex., San Angelo—Election Apr. 11, $80,000 bonds for additional street paving. E. I. Jackson, city mgr.

Tex., Waco — Rejected bids paving 10 various streets. $90,000. Plans will be revised and bids called later. V. G. Koch, city engr. Noted Feb. 26.

Okla., Anadarko—Plans grading and concrete surfacing 10,100 sq.yd. Central Blvd. and Mission St. $40,000. J. C. Milliken, Chickasha, engr.

Okla., Chickasha—Plans grading, curbing and concrete surfacing 7,000 sq.yd. 13th St. from Kansas to Minnesota Sts. $27,500. J. C. Milliken, Chickasha, engr.

Okla., Duncan — Stephens Co. election Apr. 7, $245,000 bonds, gravel surfacing 325,000 sq.yd. Lee Highway. J. M. Page, Capitol Bldg., Oklahoma City, highway engr.

Okla., El Reno—Plans grading concrete curbing, guttering and sheet asphalt surfacing 5,600 sq.yd. Williams St., $30,000; and 6,300 sq.yd. Russell and Oak Sts. $37,000. F. H. Peckham, 227 West Grand St., Oklahoma City, engr.

Okla., Lawton — Comanche Co. voted $400,000 bonds, gravel surfacing 98 mi. various roads, 30 ft. J. M. Page, Capitol Bldg., Oklahoma City, engr. Noted Feb. 26.

Okla., Nowata — Stephens Co. election Apr. 7, $245,000 bonds, improving Lee Highway.

Okla., Pawhuska — Plans grading, concrete curbing and sheet asphalt surfacing

Streets and Roads (Continued)

6,000 sq.yd. Indian Village St. $36,000. J. M. Buckley, Pawhuska, engr.

Nev., Las Vegas—Clark Co. plans election $25,000 bonds for road construction.

Ariz., Tombstone — Cochise Co. plans grading and gravel surfacing 12 mi. Chiricahua Mt. Rd. $60,000. S. Smith, Tombstone, engr.

Calif., Colusa—Plans 4 in. asphaltic concrete surfacing, Willite process, Jay St. $25,000 or more.

Calif., El Centro—Plans election $42,000 bonds, paving Main, 4th, Sandalwood, Len Rey Sts., etc.

Calif., Hermosa Beach — Made plans curbing, sidewalks, concrete paving East 1st and Lyndon Sts., etc. To exceed $25,000. H. R. Taylor, city engr.

Calif., Los Angeles — Plans paving San Fernando Rd. between Huron St. and city limits. $100,000 or more. H. A. Van Norman, City Hall, engr.

Calif., Los Angeles—Soon takes bids improving Beacon St. between Santa Cruz and 4th Sts., 75,752 cu.yd. cut within street lines, 50,648 cu.yd. 1 to 1 slope, total 126,400 cu.yd. H. A. Van Norman, City Hall, engr.

Calif., Martinez — Contra Costa Co., making plans improving streets in Kensington Park, Impvt. Dist. 2. To exceed $25,000. W. S. Farley, Monadnock Bldg., San Francisco, engr.

Calif., Marysville — Plans paving 25 blocks various streets. To exceed $25,000. L. B. Crook, city engr.

Calif., Mayfield—Plans vibrolithic concrete paving 37 blocks of various streets. To exceed $25,000. C. Moser, 651 Homer Ave., Palo Alto, engr.

Calif., Pasadena — Plans election $700,000 bonds, improving Green St. between South Marengo and South Orange Sts. W. C. Earle, city engr.

Calif., Santa Ana—Orange Co. making plans 5½- to 8-in. concrete surfacing La Palma Ave., Road Impvt. Dist. 41. $25,000. J. L. McBride, Santa Ana, co. road comr.

Calif., San Francisco — Plans grading, sewers and retaining wall, etc., on (paving later), Roosevelt Way between 14th and Clayton Sts. $90,000. M. M. O'Shaughnessy, city engr.

Ont., Hamilton—Wentworth Co. plans to expend $125,000 on new roads and highway improvements, concrete. A. Lumsden, Court House, engr.

Ont., Ottawa — Bd. Control, soon takes bids asphalt paving 1st and 2nd Aves. $30,000. A. F. Macallum, city engr.

Ont., Stratford—Plans cement paving 1½ mi. various streets. $45,000. A. Manson, city engr.

Ont., Walkerville — Plans widening Walker Rd. $100,000. A. E. Cook, city engr.

B. C., Point Grey — Election Mar. 28, $250,000 bonds general and permanent road construction. W. B. Greig, 5851 West Blvd., Vancouver, engr.

BIDS DESIRED

Massachusetts—Mar. 31, by Dept. Pub. Wks., Boston, concrete paving 14,595 ft. highway from Tainton to Berkley. To exceed $100,000. W. F. Williams, comr.

Mass., Gardner — Mar. 30, by F. W. Proctor, supt. streets, rein.-con. paving about 7,500 sq.yd. two locations, also 20 ton single type self supporting reinforcement Havenmayer bars and 15 ton ½ in. square deformed bar; adv. E. N.-R. Mar. 26.

N. Y., Brooklyn—Apr. 1, by J. A. Guider, boro pres., Boro Hall, grading, curbing and flagging 80th St. from 11th to 12th Aves., and 80th St. from 15th to 16th Aves., Ave. T. Bay Ridge Ave., East 28th, East 42nd, West 6th, 54th, 76th and 77th Sts.; asphalt paving Bay Ridge and 6th Aves., Ave. T, East 28th, 31st, 71st, 77th, 82nd and East 31st Sts., also 76th St. from 14th to 15th Aves., and 76th St. from 19th to 20th Aves.

N. Y., Long Island City — Mar. 27, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sheet asphalt repaving Franklin and Central Aves.

N. Y., New York—Apr. 1, by J. Miller, pres. Manhattan Boro, Municipal Bldg., sheet asphalt repaving East 124th St.; and granite block repaving West 124th St.

N. Y., New York—Apr. 1, by J. Miller, pres. Manhattan Boro, Municipal Bldg., laying and relaying sidewalks and curb when and where directed during 1925; also repairing asphalt wood block, granite block and oak key block pavements in railroad area.

N. Y., New York—Apr. 2, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., grading, curbing, sidewalks, etc., on Sagamore St.; and sheet asphalt paving Holland and Sheridan Aves.

N. Y., St. George—Apr. 1, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and concrete paving Hylan Blvd. Contr. 4.

Pennsylvania — Apr. 18, by Dept. Hys., Harrisburg, bituminous on concrete or rein.-con. surfacing 51 mi. 8 projects in 8 counties. P. D. Wright, secy. highways; adv. E. N.-R. Mar. 26.

Pa., Altoona—Mar. 31, by B. Keatley, comr. City Council, City Hall, concrete paving 25,000 sq.yd. 21 streets and avenues. $80,000. H. J. Baum, city engr.

Maryland — Mar. 31, by State Rds. Comn., Baltimore, concrete shoulders on 3 sections highway in Baltimore Co.; concrete paving 5 sections highway in Carroll, Kent, Baltimore and Queen Annes Counties. J. N. Mackall, chn.; adv. E. N.-R. Mar. 26.

Maryland—Apr. 7, by State Rds. Comn., Baltimore, constructing 6 sections highway in Washington, Howard, Baltimore, Charles, Talbot and Wicomico Counties. J. N. Mackall, chn.; adv.. E. N.-R. Mar. 26.

Md., Baltimore—Apr. 1, by Bd. Awards, City Hall, sheet asphalt paving 9,900 sq.yd. Contr. 275-OCOA, and concrete paving 15,930 sq.yd. Contr. 274-NA. S. C. Rowland, 214 East Lexington St., acting chn. paving com.

S. C., Georgetown — Apr. 3, at office Georgetown Co. Hy. Comn., grading and sand clay surfacing 16,739 cu.yd. State Route 40, State Project S-580, also seven 14 ft. spans treated timber bridge over Six Mile Creek. J. M. Martin, Florence, engr.

Miss., Columbus—Apr. 14, by Mayor and City Council, grading, curbing, guttering, brick, asphalt or concrete surfacing 27,000 sq.yd. 3rd, College and North 5th Aves. R. L. Totten, Inc., B. M. Bldg., Birmingham, Ala., engr.

Miss., Sumner—Apr. 3, by Bd. Supervs. Tallahatchie Co., grading and gravel surfacing 20 mi. various roads, 18 ft. M. H. James, Sumner, engr.

Louisiana—Apr. 14, by State Hy. Comn., Reymond Bldg., Baton Rouge, hard surfacing 7.5 mi. New Orleans-Jefferson Highway from Kenner to Shrewsbury, 18 ft. W. B. Roberts, ch. engr.

Tenn., Knoxville—Mar. 31, by City, paving various streets, 21,905 sq.yd. brick on 5 in. concrete and 1,336 sq.yd. 6 in. concrete. F. M. Connolly, 432-3, Peoples Trust & Savings Bank Bldg., Galesburg, Ill., engr.

O., Cleveland Heights (Warrensville P. O.)—Apr. 3, by City, vitr. brick, sheet asphalt or asphaltic concrete paving Montevista Dr., Ardoon St., Euclid Heights Blvd., Antisdale, Glenwood, Ardmore, Elmwood, Erieview, Navahoe, Pomona, Rosemond, Sylvania, Allston, Superior, Clarence, Medford, Nobleshire, Randolph, Vineshire, Revere and Tuilliam Rds., etc. $300,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Portsmouth—Apr. 8, by C. W. Wilson, dir. Pub. Serv., grading, curbing, brick or bituminous paving 31,500 sq.yd. Harding Ave., Coles Blvd., 2 short alleys, High and Charles Sts. C. S. Stevenson, city engr.; adv. E. N.-R. Mar. 26.

Michigan—Apr. 8, by State Hy. Dept. at office Comrs. Kent Co., Grand Rapids, grading and gravel surfacing 6.058 mi. Assessment Dist. Rd. 439, in Kent, Ottawa and Allegan Counties. G. C. Dillman, Lansing, ch. engr.

Ill., Geneva — Mar. 31, by City Clerk, grading, curbing and sheet asphalt, Warrenite bitulithic or rein.-con. surfacing 17,300 sq.yd. Anderson Blvd. $64,000. Wells Eng. Co., Geneva, engrs.

Wisconsin—Mar. 31, by State Hy. Comn., Madison, **(F. A. P. means Federal Aid Project), improving** Boscovel-Fennimore-Dubuque Rd., F. A. P. 376-A, Grant Co., 36,680 cu.yd. earth, 3,672 cu.yd. loose and 1,949 cu.yd. solid rock excav., 5,026 cu.yd. borrow, 23,015 ft. intercepting ditch, 17,068 cu.yd. crushed stone surfacing, 1,460 bbl. cement, etc., Option A entire project, Option B same as above without surfacing and Option C surfacing only; crushed stone surfacing 10,019 cu.yd. Shullsburg-Monroe Rd., F. A. P. 374-A, 3,200 cu.yd. Darlington-Mineral Point Rd., and 800 cu.yd. Gratiot-South Wayne Rd., all in Lafayette Co. J. T. Donaghey, highway engr. Noted Jan. 22.

Wis., Appleton—Apr. 1 (extended date), by E. L. Williams, city clk., sheet asphalt, vibrolithic, concrete or Warrenite bituminous paving 64,000 sq.yd. various streets. R. M. Connelly, City Hall, engr. Noted Mar. 5.

Wis., Eau Claire—Apr. 1, by O. E. Olen, city clk., improving 1st and Park Aves., Main, Platt, 3rd and 5th Sts., 10,777 cu.yd. excav., 30,879 sq.yd. concrete paving, 13,[illegible] ft. concrete curbing. J. T. Hurd, City Hall, engr.

Wis., Hudson—Apr. 6, by Bd. Pub. Wks., G. H. Tappans, pres., vitr. brick, rein.-con., vibrolithic concrete or asphaltic concrete paving, 9,855 sq.yd. Vine and Locust Sts. $27,000. L. P. Wolff, 903 Globe Bldg., St. Paul, Minn., engr. Former bids rejected. Noted Mar. 12.

Wis., Kenosha—Mar. 30, by J. Herzog, highway comr., div. office Milwaukee, grading, widening and concrete surfacing [illegible] sq.yd. Somers Rd., and 5,000 sq.yd. Burlington Rd., here. J. T. Donaghey, Madison, state engr.

Wis., Menasha—Apr. 21, by J. F. DeCaro, city clk., curbing, guttering and rein.-con. paving approximately 10,556 sq.yd. Elm and Tayco Sts. A. E. McMahon, City Hall, engr. Former bids rejected. Noted Mar. 12.

Wis., Milwaukee—Mar. 30, by Dept. Pub. Wks., R. Stoelting, comr., grading and concrete paving 28,393 sq.yd. 15 alleys. To exceed $25,000. J. Schwada, City Hall, engr.

Wis., Milwaukee — Mar. 31, by R. E. Stoelting, comr. Dept. Pub. Wks., 5,667 cu. yd. grading, 7,246 ft. concrete curb and gutter, 15,043 sq.yd. 7 in. vibrolithic concrete, 793 sq.yd. concrete, vibrolithic or asphaltic concrete, 2,297 sq.yd. concrete or vibrolithic concrete, 2,972 sq.ft. cement sidewalks on Finn Pl., Arthur, Lisbon and 2nd Aves., 14th, 15th, 17th, 44th, 45th and 57th Sts. To exceed $25,000. J. Schwada, city engr.

Wis., Neenah—Mar. 31, by H. S. Zemlock, city clk., grading, concrete curbing, guttering and sheet asphalt, rein.-con. or vibrolithic concrete paving 3,863 sq.yd. 1st St., and 908 sq.yd. Lincoln St.: McMahon & Clark Co., Menasha, engrs.

Wis., Two Rivers—Apr. 3, by J. Doleysh, city clk., improving various streets, 6,000 ft. concrete curb and gutter, 8,000 cu.yd. excav., 15,000 sq.yd. one and two course concrete or vibrolithic concrete paving. To exceed $25,000.

Wis., West Allis—Mar. 30, by Bd. Pub. Wks., A. Wichner, supt., vibrolithic, concrete or sheet asphalt surfacing Burnham St. between east city limits and 54th Ave., approximately 8,500 sq.yd. new and 7,500 sq.yd. old pavement removed and replaced. W. Darby, City Hall, engr.

Ia., Marshalltown—Apr. 1, by City concrete curbing and 8 in. rein.-con. surfacing approximately 16,000 sq.yd. various streets. $50,000. A. McMahon, city clk.

Minn., Mankato—Apr. 2, by C. L. Kennedy, aud. Blue Earth Co., improving State Rd. 19, Job 2501, 24,993 cu.yd. excav. and 23,080 cu.yd. overhaul; State Rd. 20, Job 2502, 56,419 cu.yd. excav. and 95,499 cu. yd. overhaul. $32,000.

Minn., Preston—Apr. 2, by F. J. Ibach, aud. Fillmore Co., 40,000 cu.yd. excav., 2 beam span bridges, 165 cu.yd. concrete and 110 cu.yd. concrete culverts, Job 2503, State Rd. 3; gravel surfacing 12 mi. Job 2504, State Rd. 6 and 8, and 6 mi. Job 2505, State Rd. 5. $25,000. W. Dunbar, Preston, engr.

Neb., Stanton—Apr. 8, by W. E. Cook, city clk., City Hall, grading, curbing, guttering, brick, asphaltic concrete, sheet asphalt, Warrenite or concrete paving, etc., 16,480 yd. various streets in Dist. 1. W. D. J. Steckelberg, Madison, engr.

Mo., St. Louis — Apr. 14, by Bd. Pub. Serv., 208 City Hall, grading and concrete paving 16 alleys in City Blocks 1187, 1884, 1885, 2370. 2379, 2471, 2483, 2806, 4057, 4895, 5157, 5254, 5258, 5278, 5315, 5479, 5556 and 5574. $57,120. W. W. Horner, 300 City Hall, engr.

Tex., Coleman—Taking bids permanent paving entire business district, incl. Commercial Ave., Pecan and Live Oak Sts. $70,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Palestine—Anderson Co. taking bids concrete paving 9.75 mi. State Highway 9. Federal Aid Project 403-C, 18 ft. $370,000. E. W. Davis, Palestine, engr.

Okla., Norman—Apr. 14, by J. Hair, city clk., grading, curbing and concrete surfacing 13,350 sq.yd. Dist. 54. $46,320. F. Cobb, Norman, engr. Noted Jan. 29.

Nevada—Apr. 8, by State Hy. Dept., Carson City, improving 16.86 mi. road from point 4 mi. east of Silver Zone to Nevada-Utah State Line, Route 1, Sect. G, Elko Co., 66,000 cu.yd. excav., 5,305 sta.yd. overhaul, 14.42 mi. prepare subgrade for shoulders, 18,000 cu.yd. loading and screening, 36,000 cu.yd. hauling, 18,000 cu.yd. spreading gravel, etc. G. W. Borden, highway engr.

Arizona — Apr. 6, by W. C. Lefebvre, state engr., Phoenix, improving Prescott-Phoenix Highway, Federal Aid Project 72-R, 116,592 cu.yd. roadway, 46,468 cu.yd.

Streets and Roads (Continued)

roadway borrow and 2,200 cu.yd. structural excav., 104,000 sta.yd. surfacing, 1,890 cu. yd. cement rubble masonry, 2,600 lin.ft. cement pipe, 77,000 lbs. reinforcing, etc., for State Hy. Dept. Noted Jan. 15.

Washington—Apr. 7, by State Hy. Comn., Olympia, grading, crushed rock surfacing, etc., 2.5 mi. State Rd. 2, King Co.; concrete paving 4 mi. State Rd. 3, from Walla Walla to Mill Creek, 1.5 mi. State Rd. 3, from Walla Walla to College Pl., both Walla Walla Co., 1.63 mi. Pacific Highway, Skagit Co., and 7 mi. State Rd. 1, Whatcom Co. J. Allen, highway engr.

California—See "Unclassified."

California—Apr. 6, by State Hy. Comn., Sacramento, grading and decomposed granite, crushed stone or gravel surfacing 9.3 mi. highway between Imperial and Brawley, Imperial Co. R. M. Morton, highway engr.

Calif., Burbank—Apr. 7, by City Council, curbing, guttering, bituminous concrete paving, etc. 3,525 ft. Sparks St., Santa Empire Aves., etc., 30 ft. A. J. Rose, Burbank, engr.

Calif., Modesto — Apr. 2, by Supervs. Stanislaus Co., oil macadam or asphaltic macadam paving Gratton Rd.; oil macadam, asphaltic macadam or asphaltic concrete paving Oakdale Rd. J. H. Hoskins, Modesto, co. surv.

Calif., Salinas—City Council taking bids improving Church St., 202,414 sq.ft. grading, 667 tons base rock, 200,157 sq.ft. 2 in. Warrenite-bitulithic paving, 5,783 ft. concrete curbing, 6,542 sq.ft. concrete guttering, etc.; also Central Ave., 101,152 sq.ft. grading, 237 tons base rock, 101,152 sq.ft. 2 in. Warrenite-bitulithic paving, 3,737 ft. concrete curbing, 6,207 sq.ft. concrete guttering, etc. H. Cozzens, city engr. Noted Mar. 19.

Calif., Santa Rosa—Apr. 7, by Supervs. Sonoma Co., 54,000 sq.ft. 5 in. Willite or 6 in. concrete paving portion of Jimtown Rd. E. A. Peugh, Santa Rosa, co. surv.

Calif., Tulare—City Trustees taking bids improving portions of M, N, Kern Sts., etc., 241,800 sq.ft. 4 in. Willite asphaltic concrete and 25,650 sq.ft. 5 in. concrete paving, 24,274 sq.ft. 4 in. concrete sidewalks, 9,050 lin.ft. concrete curbing, 3,488 ft. 8 and 10 in. storm sewer, etc. To exceed $60,000. J. P. Williams, city engr. Noted Mar. 5.

Ontario — Mar. 30 (extended date), by Dept. Pub. Wks. & Highways, Toronto, concrete or asphaltic concrete paving 7.62 mi. road from Bowmanville to east side Lot 17, Contr. 11, Clarke Twp.; asphalt paving 4.8 mi. road from Trenton easterly $150,000; concrete, bituminous penetration or asphaltic concrete paving 3.92 mi. road from Prescott westerly $125,000; macadamizing 3.53 mi. road from Bloomfield northerly $40,000, 4.48 mi. road from Moulinette westerly $50,000; asphaltic concrete or bituminous penetration 4.08 mi. road from Prescott to point north of Johnstown, $50,000. C. H. Nelson, Ottawa, ch. engr. Noted Mar. 12.

Ont., Toronto—Mar. 31, by Bd. Control, City Hall, asphalt paving 4,000 sq.yd. asphalt surfacing 3,000 sq.yd., Warrenite bitulithic paving 3,500 sq.yd., brick block paving 2,100 sq.yd., and concrete paving 1,500 sq.yd. various streets, etc. $150,000. R. C. Harris, city engr.

Ont., Welland — Mar. 31, by R. Cooper, engr., County Bldg., 4 mi. waterbound macadam on Canboro Rd., for Welland Co. Good Rds. System. $45,000.

BIDS RECEIVED

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Mar. 19, from Regan Towers Co., 124 West 121st St., granite block paving Kingsbridge Rd. from Fordham Rd. to East 194th St. $53,365, asphalt block repaving Grant Ave. $45,348; from Burnside Contg. Co., 270 Burnside Ave., asphalt block repaving Southern Blvd. $63,085; from Leonard Paving Co., Woolworth Bldg., granite block paving Kingsbridge Rd. from Jerome to Sedgwick Aves., $112,473, from St. George Granite Co., 90 West St., East 138th St. $90,824; from C. D. Beckwith, 2875 Bway. sheet asphalt paving Clifford Pl. $9,898, Eastburn Ave. $17,746, from Gaffney Constr. Co., 50 East 42nd St., Nelson Ave. $33,750, from Interboro Asphalt Paving Co., 2306 Creston Ave., Shakespeare Ave. $40,349. Noted Mar. 12.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Mar. 19, grading and concrete paving Hylan Blvd., from J. Kelly, 1150 Forest Ave., West New Brighton, $210,399. Noted Mar. 12.

New Jersey—State Hy. Dept., Trenton, concrete paving 43,329 sq.yd. Route 5, Sect. 15, Essex and Union Counties, from Sutton & Corson, Ocean City, $303,972; and 13,300 sq.yd. Route 11, Sect. 8, Kingsland Rd., Nutley, Essex Co., from Bianchi & Smith, Lyndhurst, $87,664. Noted Feb. 26.

Delaware—State Hy. Dept., Dover, 4,000 ft. sidewalk at Claymont, Contr. 52, from D. Fontana, 421 Orange St., Wilmington, $6,522; grading and concrete paving 4.92 mi. Dover-Little Creek, Contr. CK-24, from W. Eisenberg, Smith-Austermuhl Bldg., Camden, N. J., $156,971. Noted Mar. 5.

Md., Baltimore—Bd. Awards, Mar. 18, concrete paving 12,890 sq.yd. Contr. 271-OANA, from J. J. Bresnan, Old Pimlico Rd., $33,787; sheet asphalt paving 9,510 sq. yd. Contr. 272-OCOA, from Baltimore Asphalt Block & Tile Co., 1329 North Monroe St., $41,228, and 19,375 sq.yd. Contr. 273-OCOANA, from Amer. Paving Co., Montebello Ave., $86,964.

Md., Towson — Comrs. Baltimore Co., Courthouse, concrete or sheet asphalt paving 1.3 mi. Monkton Manor Rd., from P. Reddington & Son, 2 East Lexington St., Baltimore, $38,425.

O., Cleveland—Cuyahoga Co., waterbound macadam paving Ford and Bishop Rds. 1 and 2, from Ohio Contg. Co., Hunkin-Conkey Bldg., $52,710 and $85,921 respectively. Noted Mar. 5.

O., Cleveland—City, paving with (a) asphalt or (b) brick, (1) East 146th St. (2) East 147th St. (3) East 155th St. (4) West 49th St. (5) East 156th St. (1 to 5 inclusive) involves 17,430 sq.yd. vitr. brick, 12,200 lin.ft. stone curbing, 13,200 lin.ft. 4 in. drain tile gutter, and 10,330 cu.yd. earth excav. (6) Kelso Ave. (7) Linndale Ave. (8) Trafalger Ave. (9) Fidelity Ave. (10) Easton Ave. (6 to 10 inclusive) involves 27,880 sq.yd. vitr. brick or asphaltic concrete, 17,720 lin.ft. stone curbing, 19,100 lin.ft. 4 in. drain tile gutter, 16,500 cu.yd. earth excav. (11) West 132nd St. (12) Austin Ave. (13) West 115th St. (14) Wheelock Rd. (15) East 18th St. (11 to 15 inclusive) involves 14,080 sq.yd. vitr. brick or asphaltic concrete, 8,080 lin.ft. stone curbing, 9,060 lin.ft. 4 in. drain tile gutter, and 10,770 cu.yd. earth excav., from Freshwater Constr. Co., Davis & Farley Bldg., (b1) $30,642 (14) $5,321 (a15) $13,507; from Gould & Maybach, 16311 Saranec Rd. (a2) $16,653 (b2) $21,114 (b3) $6,672 (a5) $9,314 (b5) $11,737 (a6) $16,088 (b6) $20,053 (a8) $25,449 (b8) $31,969 (b12) $2,808; from W. E. McHugh, West 73rd St. and Wheeling & Lake Erie R.R. (a4) $16,308; from Roehl Bros., 7112 Denison Ave., (a7) $46,991 (b7) $56,769; from Cleveland Trinidad Paving Co., The Arcade, (a9) $22,619 (b11) $15,523 (b13) $40,058; from Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, (b9) $28,698; from H. G. Herring, Pavers Exchange, (a10) $10,820; from Baldwin Bros., 4500 Euclid Ave., (a11) $12,793 (a13) $38,329.

Wis., Manitowoc — A. H. Zander, city clk., Mar. 13, paving 12,798 sq.yd. New York Ave., 3,561 sq.yd. South 14th St. and 25,625 sq.yd. Marshall St., from Zendala Constr. Co., 1020 South 25th St., concrete $105,551; and from Cherney Constr. Co., Francis Creek, vibrolithic concrete $110,042. Noted Mar. 5.

Mo., Farmington — Improving various streets 6,340 sq.yd. vibrolithic concrete paving, 1,870 cu.yd. grading, 680 ft. combined curb and gutter, 972 ft. gutter, 985 ft. 12, 15, 21 and 24 in. vitr. clay sewers, 3 curb inlets and 4 catch basins, from Central Paving & Constr. Co., 6161 Maple Ave., St. Louis, $22,274. Noted Jan. 1.

Tex., Eagle Pass—Maverick Co., clearing, grubbing and grading 24.5 mi. State Highway 85, 18 ft., from H. Kyle, Hutto, $38,974; drainage structures on above, from B. Moore Constr. Co., Waco., $42,536.

California — State Hy. Comn., Sacramento, Mar. 9, concrete improving 6.4 mi. road between Merced River and Buhac (Atwater P. O.), Merced Co., 5.3 mi. concrete paving and widening 1.1 mi. with concrete shoulders, from H. B. Peterson, Spreckles Bldg., San Diego, $139,357. Noted Feb. 19.

Calif., Pasadena—Curbing, guttering, oil macadam paving, etc., Lake St., from C. F. Mathews, 221 Braley Bldg., $25,105.

CONTRACTS AWARDED

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., to Interboro Asphalt Co., 2306 Creston Ave., bituminous concrete paving Jerome Ave. $23,926, sheet asphalt paving College Ave. $15,443; to Gaffney Constr. Co., 50 East 42nd St., sheet asphalt paving Mosholu Parkway, $87,983, to Asphalt Constr. Co., 208 Bway., Townsend Ave. $79,756; to Leonard Paving Co., Woolworth Bldg., granite block paving Jerome Ave. $110,386, to J. Meehan & Son, 74 Cortlandt St., Boston Rd. $184,244. Noted Mar. 19.

N. Y., New York—J. Miller, pres. Manhattan Boro., granite block repaving 1st Ave. to J. Meehan & Son, 74 Cortlandt St., $158,385, 3rd Ave. to C. Helbock Co., 633 Wales Ave., $228,939, sheet asphalt repaving 32nd St. to Uvalde Asphalt Paving Co., 1 Bway., $24,759, 41st and 23rd Sts., to W. J. Fitzgerald, 547 West 45th St. $24,607 and $29,828 respectively, 7th Ave. to Brusstar Constr. Co., Harlem River and 150th St. $73,033. Noted Mar 19.

N. J., Irvington (branch of Newark)—To Northern Constr. Co., 423 Amherst St., East Orange, paving 49,505 sq.yd. Stratford Pl. $10,869, Sheridan St. $11,446, University Pl. $22,495, Temple Pl. $5,385, Grove Terrace $12,390, Coolidge St. from Stuyvesant Ave. to Harding Terrace $21,005, Coolidge St. from Beechwood Pl. to Fleetwood Pl. $4,800, Ellery Ave. $7,601, Cordier St. $17,924, Fleetwood Pl. $5,173, Beechwood Pl. $5,748, 37th St. $9,616, Wilson Ave. $5,612, Durant Pl. $15,871, Fairchild Pl. $2,894, Naden Ave. $15,430, Laventhal Ave. $16,860, Sager Pl. $4,822, Wolf Pl. $8,543; work involves 49,500 sq.yd. 6 in. rein.-con.; to J. Dorer, Irvington, Rodwell Ave. $8,733, Quabeck Ave. $11,119, 5,100 sq.yd. 6 in. rein.-con.

Pennsylvania—State Hy. Dept., Harrisburg, to Road Constr. Co., Butler, rein.-con. surfacing Application 1041, Indiana Co., 21,749 sq.yd. concrete $3.25 per sq.yd., etc. total $102,542; to Haydock & Martin, Franklin Trust Bldg., Phila., 9,500 sq.yd. rein.-con. $3.10, 1,373 cu.yd. earth excav. $1.55, and 1,819 cu.yd. earth excav. $1.75, total $51,622. Noted Feb. 19.

Maryland—Dept. Pub. Wks., Baltimore, to E. P. Pendleton, 16 South Calverton Rd., Baltimore, oiling 35.54 mi. roads in Cecil, Kent, Queen Annes, Caroline and Talbot Counties $9,469, 53.6 mi. in Howard, Prince George and Montgomery Counties $14,598, and 72.33 mi. roads in Anne Arundel, Baltimore and Harford Counties $21,133; to Barrett Co., 36th St. and Grays Ferry, Phila., Pa., 70.75 mi. roads in Anne Arundel, Calvert, Charles and St. Marys Counties $57,817, 21.51 mi. roads in Calvert Co. $24,946, and 85.04 mi. roads in Garrett, Allegany, Washington and Frederick Counties $25,551; to Earle & Lansdale Co., 173 Main St., Hackensack, N. J., 91.5 mi. roads in Carroll, Frederick, Howard and Montgomery Counties, $25,311. Noted Mar. 5.

Md., Baltimore — Bituminous flushing various roads and streets, 150,000 sq.yd. ½ gal. with cover, 15,000 sq.yd. ½ gal. without cover and 350,000 sq.yd. ½ gal. with cover, to J. Gibbons, Warwick Ave. and Mulberry St., $45,750.

Md., Baltimore—Bd. Awards, 11,940 sq. yd. sheet asphalt surfacing Contr. 269-OANA, to P. Flanigan & Son, Harford Rd. and Baltimore & Ohio R.R., $55,095; concrete paving 5,910 sq.yd. Contr. 270-OCOANA, to G. Long Constr. Co., 1st Ave. and 1st St., $14,432. Noted Mar. 19.

Md., Towson — Comrs. Baltimore Co., Court House 211,000 gal. tar or oil on various streets, to Barrett Co., 36th St. and Grays Ferry, Phila., Pa., $27,862.

W. Va., Huntington—Sheet asphalt on 6 in. concrete surfacing Washington Blvd., to Hatfield Constr. Co., 418½ 10th St., $125,000; brick on concrete surfacing Olive and 3 other streets, to L. O. Gillespie, Huntington, $25,000; concrete surfacing Arlington Rd. to G. Pence, 1454 4th Ave., $85,000. Noted Mar. 12.

W. Va., Wayne — Wayne Co., paving streets from East Lynn to Grant Dist. line, Stonewall Dist., to C. E. Price, Huntington, $48,539; Wilsons Creek-Prices Creek Rd., Union Dist., to Hatfield Constr. Co., 418½ 10th St., Huntington, $38,651.

N. C., Kernersville — Grading, curbing, guttering and 2½ in. asphaltic on 5 in. surfacing various streets to Hedrick Constr. Co., Salisbury, $65,000. Noted Feb. 5.

Alabama—State Hy. Dept., Montgomery, grading and gravel surfacing 12.808 mi. Selma-Plantsville Rd., 18 and 24 ft. State Aid Project 23, Dallas Co., to W. C. McCoy, Lafayette, $82,478, and 25.09 mi. Stockton-Little River Rd., 18 ft., Federal Aid Project 140, Baldwin Co., to Bennett Bros., Dotham, $65,015; grading and one course concrete surfacing 1.925 mi. road from Federal Aid Project 21 to Demopolis, 18 and 26 ft., State Aid Project 65, Marengo Co., to S. R. Jones, Rand Bldg., Memphis, Tenn., $52,963. Noted Mar. 12.

La., Natchitoches—Police Jury Natchitoches Parish, graveling 7 mi. Robeline-Allen Highway, to Hankin Bros., c/o owner, $27,633.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, will construct 3 mi. Monteagle-Coffee Co. line Rd., Grundy Co., by day labor. J. G. Creveling, Jr., comr.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and Kentucky

Streets and Roads (Continued)

rock asphalt paving 0.98 mi. Sect. A, Nevada-Northern Rd., Wyandot Co., to L. D. Kear, Wharton, $23,092. Noted Mar. 5.

O., Cleveland—Improving Stevenson Rd. and East 157th St., 8,360 sq.yd. vitr. brick paving, 5,805 lin.ft. stone curbing, 6,190 lin.ft. 4 in. drain tile gutter, 4,630 cu.yd. earth excav., to Gould & Maybach, 16311 Saranec Rd., $48,369; Bartlett and Farrington Ave., also East 138th and 139th Sts., 6,720 sq.yd. vitr. brick and 13,320 sq. yd. asphaltic concrete paving, 15,440 lin.ft. stone curbing, 16,520 lin.ft. 4 in. drain tile gutter, 11,602 cu.yd. earth excav., to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $116,029; East 103rd St., Alabama Court, Mt. View and Signet Aves., 7,350 sq. yd. vitr. brick, 4,815 lin.ft. stone curbing, 5,110 lin.ft. 4 in. drain tile gutter, and 4,870 cu.yd. earth excav., to Bentley Bros., 3030 Euclid Ave., $43,433; West 134th and 137th Sts., 15,000 sq.yd. vitr. brick, 10,100 lin.ft. stone curbing, 10,600 lin.ft. 4 in. drain tile gutter, and 8,000 cu.yd. earth excav., to Roehl Bros., 7112 Denison Ave., $80,063; grading, curbing, guttering and vitr. brick paving 3,010 sq.yd. Henninger Rd., to Freshwater Constr. Co., Davis & Farley Bldg., $19,602; asphaltic concrete paving, etc., 9,100 sq.yd. West 111th St., to Cleveland Trinidad Paving Co., The Arcade, $40,774. Noted Jan. 29, Mar. 5 and 12.

O., Cleveland — City, improving East 110th St., Parkhill and Way Aves., 15,580 sq.yd. vitr. brick and 8,475 sq.yd. asphaltic concrete paving, 150,000 lin.ft. stone curbing, 16,640 lin.ft. 4 in. drain tile gutter, 11,430 cu.yd. earth excav., to Baldwin Bros., 4500 Euclid Ave., $119,105; Paxton Rd., Avalon, Darley and Wagner Aves., 7,575 sq.yd. vitr. brick, 1,020 sq.yd. asphaltic concrete, 5,735 lin.ft. stone curbing, 6,156 lin.ft. 4 in. drain tile gutter, and 5,690 cu. yd. earth excav., to Gould & Maybach, 16313 Saranec Rd., $48,225; Bliss Court, Castalia, Jennie, Maple and Olivet Aves., East 102nd, East 142nd and West 24th Sts., 22,100 sq.yd. ashaltic concrete, 15,000 lin.ft. stone curbing, 16,770 lin.ft. 4 in. drain tile gutter, and 14,940 cu.yd. earth excav., to Cleveland Trinidad Paving Co., The Arcade, $113,226; Agnes, Fidelity, Fortune and St. Park Aves., West 68th, 110th, 135th and 136th Sts., 39,870 sq.yd. vitr. brick, 25,900 lin.ft. stone curbing, 30,263 lin.ft. 4 in. drain tile gutter, and 25,220 cu.yd. earth excav., to Roehl Bros., 7112 Denison Ave., $203,888. Noted Jan. 29 and Feb. 12.

O., New Philadelphia—Bd. Control, sheet asphalt paving Bway. and High Sts., incl. Pub. Sq., to Leroy Springer Co., New Philadelphia, $70,648. Engrs. est. $75,000. Noted Mar. 19.

O., South Euclid — Improving Sheridan Rd., 7,750 sq.yd. 2 in. asphaltic concrete, 6,600 lin.ft. each sandstone curbing and 4 in. drain. tile gutter, etc., to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $38,803. Engrs. est. $55,000.

Michigan — State Hy. Dept. at office Comrs. Wayne Co., Detroit, grading and surfacing 6.591 mi. Trunk Line Rd. 17-21, to J. Porath, Penobscot Bldg., Detroit, $187,910.

Mich., Lansing — City will remove old pavement and resurface with bituminous concrete 0.75 mi. Michigan Ave., 36 ft. outside tracks, by day labor. $152,156. O. Eckert, city engr.

Ill., McHenry — Dist. 2, 5,148 ft. combined curb and gutter, 4,573 cu.yd. excav., 9,784 sq.yd. vibrolithic concrete, etc., and Paving Dists. 3, 5,517 ft. curb and gutter, 5,558 cu.yd. excav., 11,227 sq.yd. vibrolithic concrete, etc., to McGucken & Van Der Heyden, 314 Fowler St., Milwaukee, Wis., $33,116 and $39,611 respectively. Noted Mar. 5.

Neb., Hebron — Improving 20 blocks various streets in Dist. 1, 13,460 lin.ft. curb, 2,000 lin.ft. sidewalks, 14,000 cu.yd. excav., 35,400 sq.yd. vitr. brick on 5 in. concrete, etc., to Robert Constr. Co., 1st Natl. Bank Bldg., Lincoln, $121,126. Engrs. est. $150,000.

Neb., Winside — City Clerk, improving Dist. 1, 3,650 lin.ft. curbing, 6,000 cu.yd. excav., 12,340 sq.yd. Johnson type concrete paving, etc., to Booth & Olson, 120 Virginia St., Sioux City, Ia., $32,000. Engrs. est. $40,000.

Kan., Wichita—E. S. Worrell, city clk., to H. T. Ritchie, 124 North Fountain Ave., asphaltic concrete surfacing 994 sq.yd. Bluff Ave., 975 sq.yd. Briggs St., 1,938 sq.yd. Harrison St., 6,383 sq.yd. Washington St., concrete surfacing 7,977 sq.yd. Green St. and 8,477 sq.yd. Kellogg St., sheet asphalt surfacing 3,825 sq.yd. Holyoke St. and 817 sq.yd. Indianapolis St., to Globe Constr. Co., 1069 North Water St., brick block surfacing 2,015 sq.yd. alley, concrete surfacing 2,201 sq.yd. Fannie St., 8,008 sq.yd. Gilbert St., 2,401 sq.yd. Irving St., 6,544 sq.yd. Ida St., 2,120 sq.yd. Jackson St., 1,957 sq.yd. Lewis St., 5226 sq.yd. McCormick St., 3,572 sq.yd. Mathewson St., 1,817 sq.yd. Pine St., 2,265 sq.yd. Sycamore St., 171 ft. 12th St., 1,090 sq.yd. Wabash St., and brick block surfacing 1,730 sq.yd. Water St. Noted Feb. 19.

Mo., Carrollton—Improving West Heidel, West Shanklin, East Lincoln and South Jefferson Sts., 1,200 cu.yd. excav. and grading, 7,500 ft. curbing, and 11,000 sq.yd. concrete paving, to C. F. Brindle, Kansas City, $31,300. Noted Mar. 12.

Mo., Clayton — St. Louis Co., to Stolle Constr. Co., 5243 Delmar Blvd., St. Louis, grading, curbing and 8 in. rein.-con. paving Meramec St. $10,628, Carondelet St. $7,216, Forsythe St. $5,642; to Carlon Constr. Co., Maplewood, Central St. $5,989. Noted Feb. 26.

Mo., Kahoka—Concrete paving 8,600 sq. yd. Main, Morgan, Commercial, Washington Sts., etc., to Western Constr. Co., Moline, Ill., $27,231. Noted Mar. 5.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, **(C. B. means City Block)** to A. Lewalk, 1219 Amherst Pl., concrete alleys in C. B. 454 $2,713, C. B. 1,430 $2,421, C. B. 1,641 $2,421, C. B. 1,641 $3,030, C. B. 2,809 $2,862, C. B. 2,775 $4,603, C. B. 2,856 $1,696, C. B. 3,550 $3,167, C. B. 3,358 $2,524, C. B. 3,815 $2,319, C. B. 4,391-A $4,943, C. B. 4,409-A $2,379, C. B. 4,410-A $4,135, C. B. 5,087 $4,019, C. B. 5,123 $3,398, C. B. 5,126 $3,405, C. B. 5,442 $3,208, C. B. 5,468 $4,531, C. B. 5,510 $1,801, C. B. 5,557 $4,382, C. B. 5,593 $2,098, C. B. 5,621 $4,691, C. B. 5,633 $6,334, C. B. 5,664 $4,292, C. B. 5,678 $2,463, C. B. 5,828 $2,463, C. B. 5,828 $4,154, and C. B. 5838 $5,069; to Eyermann Constr. Co., 1216 South Grand Blvd., C. B. 2,278-E $2,568, and C. B. 476 $622. Noted Feb. 19.

Ark., Russellville — Grading curbing, guttering, and 6 in. concrete surfacing etc., 50,000 sq.yd. Paving Dist. 4, to Philpot Constr. Co., Pine Bluff, $148,327. Noted Mar. 5.

Tex., Austin—Travis Co., grading 6 mi. Austin-Cameron Rd., 123,200 cu.yd. roadway and borrow excav., 10,000 sta.yd. overhaul, to Hutto Constr. Co., Hutto, $21,459. Engrs. est. $27,000. Noted Mar. 5.

Tex., Hebbronville—Jim Hogg Co., 10 in. caliche surfacing 20 ft. wide 10.2 mi. link in Laredo-Corpus Christi Highway, road bed to be 22 ft. wide, to W. W. Vann, Falfurrias, $48,932. Topping using Uvalde rock will be done by State Highway Dept., Austin.

Colorado — State Hy. Dept., Denver, gravel surfacing 2.973 mi. Federal Aid Project 243 B, Archuleta Co., to Engler & Tessyler, Durango, $44,025; and gravel surfacing 3.143 mi. Federal Aid Project 265-A, La Plata Co., to Blackwell & Butler, Box 575, Grand Junction, $31,286.

Nev., Reno—City Council, 700,000 sq.ft. 1.5 in. on 3.5 in. asphaltic concrete paving various streets, to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, Calif., $118,350. Noted Feb. 26.

Wash., Wenatchee—Chelan Co., grading, surfacing, etc., 3.4 mi. Wenatchee-Chelan Highway, to H. Gee & Co., 2206 54th St. N. W., Seattle, $26,355.

Oregon — State Hy. Comn., Salem, to Greenwood & Dann, 500 North Front St., Portland, grading 10.3 mi. Roosevelt Highway, Clatsop Co., 66,700 cu.yd. earth excav. $0.47, 17,500 cu.yd. loose rock excav. $0.90, 9,000 cu.yd. solid rock excav. $1.10, 21,800 cu.yd. sedimentary rock excav., $0.75, etc., total $140,490; to Simonson & Hefty, Portland, resurfacing 16.27 mi. Roosevelt Highway, Banden Sixe Sect., 16 and 18 ft. road bed, $74,212.

Calif., Pomona—Curbing and paving 7 blocks 5th Ave. between Garey Ave. and west city limits, to Fleming Constr. Co., 105 North Park Ave., $69,900, engrs. est. $75,200; and Garey Ave. between Grand and Franklin Sts., to H. Cornwell, 120 South Glendale Ave., Glendale. $37,500, engrs. est. $38,920. Noted Nov. 13.

Calif., Southgate—To G. H. Oswald, 366 East 58th St., Los Angeles, improving Long Beach Blvd., 9,980 ft. curbing at $0.40 per ft., 13,470 sq.ft. 5 in. guttering $0.19, 8,140 sq.ft. 8 in. guttering $0.27, 5,575 sq.ft. sidewalks $0.14, 312,280 sq.ft. grading $0.04, 312,280 sq.ft. 2 in. Willite on 4 in. bituminous paving $0.216, etc., total approximately $127,975.

Ont., Toronto — Toronto & York Good Rds. Comn., 57 Adelaide St., will repair roads, mostly macadam, by day labor. $25,000 bonds voted. E. A. James, 57 Adelaide St., engr.

B. C., Point Grey—For 7.16 mi. concrete sidewalks, 1 mi. curbing and ¾ mi. guttering various streets, to G. W. Ledingham, Oak and Goodmurphy Sts., Vancouver, $40,814.

Buildings—Industrial

PROPOSED WORK

Pa., Chester — Dyehouse — Aberfoyle Mfg. Co., 4th and Morton Sts., having plans prepared by E. G. Perot, 1211 Arch St., Phila., 3 story and basement, 80 x 200 ft., rein.-con., plain foundation.

N. C., Durham—Plant—E. H. Bowling, et al, plan plant. $100,000.

Fla., Bradentown — Plant — City takes bids about May 24, 800,000 ft. gas plant. J. B. McCrary Eng. Corp., city & South Bank Bldg., Atlanta, Ga., engrs. Noted July 3.

Fla., Jacksonville — Bakery — Dorsey Baking Co., 2341 Main St., plans bakery addition, Warren and Main Sts. $250,000. B. C. Dorsey, pres.

La., New Orleans — Plant — Milam Morgan Co., Paris Ave. and Gentilly Rd., plans 1 story ice plant, brick and rein.-con. 70 tons daily capacity, Gentilly Rd. and Peters Ave. $100,000.

La., New Orleans — Plant — Vivien Ice Co., L. T. Vivien, pres., Stand 87, French Market, plans ice plant, 15 tons daily capacity, Gentilly Rd.

Tenn., Dickson—Plant—Peoples Ice & Cold Storage Co. plans ice and cold storage plant. $40,000.

Tenn., Jacksonville — Plant — Du Pont Fiber Silk Co., Jacksonville, Tenn., and Wilmington, Del., H. J. White, genl. supt., Jacksonville, plans 2 additional units to plant now under construction. $2,700,000.

O., Cincinnati — Plant — Cincinnati Enquirer, A. Wiley, bus. mgr., having preliminary plans prepared by Lockwood, Greene & Co., 24 Federal St., Boston, Mass., 3 story newspaper plant, brick, steel and concrete, Vine St. $150,000.

O., Cleveland — Sub-Station — Cleveland Electric Illuminating Co., J. Wolf, engr., Illuminating Bldg., had plans prepared 1 story, 50 x 50 ft., brick, steel and concrete addition, East 105th St. and Euclid Ave. $40,000. Private plans.

O., Zanesville—Factory—Standard Tile Co., soon take bids 1 story addition, Nowal Pk. $50,000. J. M. Morton, pres.

O., Zanesville—Power Station—Columbus, Newark & Zanesville Electric Ry. Co., plans 40 x 60 ft. power station, Linden Ave. $50,000. C. E. Moran, genl. supt.

Wis., Milwaukee—Factory—G. Zagel & Bro., archts., 144 Oneida St., 2 story and basement, 62 x 115 ft., brick and timber, 30th St., to H. C. Breest, 2408 Keefe Ave., for Builders Needs, Inc., 1243 30th St. Archts. est. $50,000. Noted Mar. 5.

Ark., Fayetteville—Light Plant—Election soon $200,000 bonds to purchase or construct electric light plant.

Tex., New Braunfels — Plant — San Antonio Public Service Co., 201 North St. Marys St., San Antonio, plans new power plant on 30 acre site, on Guadalupe, near here, $5,000,000.

Okla., Oklahoma City — Machine Shop, etc.—Boardman Co., West Maple St. had preliminary plans prepared 60 x 88 ft. addition, etc. $60,000. H. S. Whitlock, Oklahoma City, engr.

Calif., Kingsburg — Plant — Plans gas plant to serve 2,000 population. C. R. Magnuson, city clk.

Calif., Los Angeles — Creamery — Calla Lily Creamery Co., 1245 East Windsor Rd., Glendale, plans creamery, San Fernando Rd. $150,000-$200,000.

Calif., Oakland — Factory — Rip Van Winkle Wall Bed Co., 792 22nd St., plans factory addition, 22nd and West Sts. To exceed $40,000.

Calif., Sacramento — Sugar Refinery — Northwestern Sugar Refining Co., Bank of Italy Bldg., Oakland, plans sugar refinery, Kiesel Station, here. $1,500,000. W. H. Ellison, Pacific Bldg., San Francisco, engr.

Calif., San Mateo — Storage Plant — Standard Oil Co., Standard Oil Bldg., San Francisco, plans storage plant and oil distribution system. $100,000.

Calif., Woodland—Plant—Merced Concrete Pipe Co., Merced, plans concrete pipe manufacturing plant. $40,000.

Que., Chelsea—Mill—International Paper Co., 100 East 42nd St., New York City, plans new pulp mill, on Gatineau River, here. $12,000,000.

Ont., Hamilton—Sub-Station—Hamilton Hydro Comn., City Hall, having plans prepared sub-station, Hughson St. N. $200,000. E. I. Sifton, c/o owner, engr.

Ont., Kirkland Lake—Mill—Lake Shore Gold mine, plans to expend $200,000, extending mill, etc.

Buildings—Industrial (Continued)

Ont., Timmins — Plant — Hollinger Consolidated Gold Mines, plans enlarging plant from 4,000 to 8,000 tons daily capacity, incl. new tube and ball mills, filters, hoisting apparatus, electric motors, conveyors, pumps, elevators, etc. $3,000,000.

BIDS DESIRED

Mass., Malden — Factory — Cunningham Spice Co., Plymouth Rd., taking bids 3 story, 54 x 75 ft., steel and concrete, Linden St. $60,000. C. H. Tenney & Co., 200 Devonshire St., Boston, archts. Noted Jan. 15.

Mass., Westwood — Repair and Service Garage—J. A. Fenton, 72 Highland St., Norwood, taking bids 1 story, 75 x 100 ft., rein.-con. and brick, Islington and Washington Sts., $40,000. M. H. Howard, Bway., Norwood, archts.

O., Cleveland — Factory — Columbian Hardware Co., H. F. Seymour, pres., 5113 Hamilton Ave., taking bids 2 story and basement, 90 x 120 ft., brick and steel factory, $40,000. Private plans. Noted Sept. 4.

BIDS RECEIVED

Md., Baltimore — Shop — Bd. Awards, 1 story, brick repair shop, Key Highway and Webster St., from DeCou & Davis, 6 East Mulberry St., $85,989.

Okla., Ponca City—Oil Laboratory, etc.—Maryland Refining Co. general contract 2 story and basement, 60 x 114 ft., rein.-con. and brick laboratory and office building, from H. W. Underhill Constr. Co., 235 North Waco St., Wichita, Kan., $86,980.

CONTRACTS AWARDED

Me., Winthrop — Plant — Winthrop Mills Co., 4 story and basement, 64 x 202 ft., brick and timber addition, to O. D. Purington & Co., 605 Industrial Trust Bldg., Providence, R. I. Archts. est. $40,000 plus. Noted Mar. 12.

Mass., North Adams — Plant — North Adams Gas & Electric Co. rebuilding gas plant, brick and steel, to J. R. Hampson & Co., 184 North St., Pittsfield. Noted Mar. 12.

Pa., Clarks Summit—Factory—Scranton Lace Co., Glen St. and Meylert Ave., Scranton, 2 story, 60 x 100 ft., rein.-con. and steel, here, to M. C. Tuttle Co., Park Sq. Bldg., Boston, Mass. Archts. est. to exceed $40,000.

Pa., McKee Rocks — Round House — Pittsburgh & Lake Erie R.R., Pittsburgh and Lake Erie Terminal, Pittsburgh, general contract 1 story, brick and steel, round house, to Walker & Curley, Sharpsburg, 500 tons steel to McClintic Marshall Co., Oliver Bldg., Pittsburgh. Noted Mar. 5.

N. C., High Point—Mill—Hillcrest Silk Mill, silk mill, to T. C. Thompson Bros., 609 North Smith St., Charlotte, $100,000 up. Noted Mar. 22.

N. C., Shelby — Mill — Messrs. Switzer, Mull & Blanton Shelby, cotton mill, to Gion & Withers, Gastonia, $250,000.

O., Cleveland—Factory—Pipe Mchy. Co., 932 East 70th St., 1 story, 52 x 130 ft., brick and timber, 932 East 70th St., to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $40,000.

O., Zanesville—Factory—New Corporation to take over interests of Hedge-Ludman, 4 story, 40 x 132 ft., steel, concrete and brick, South 4th St., to Barkhorst & Price, Zanesville, $75,000.

Mich., Detroit—Plant—A. Kahn, archt., 1000 Marquette Bldg., 3 story, 80 x 639 ft. assembly plant with 80 x 180 ft. wing, rein.-con. and brick, plain foundation, Connors Ave., to H. G. Christman Co., 315 Stevens Bldg., for Hudson Motor Co., 12601 East Jefferson Ave. Noted Feb. 26.

Mich., Detroit—Shop—Dodge Bros. Inc., 7900 Jos. Campau Ave., will build 1 and 2 story, 75 x 500 ft., concrete, brick and steel, plain foundation, Jos Campau Ave., by day labor. Smith, Hinchman & Grylls, 800 Marquette Bldg., archts.

Wis., Frederic—Cannery—Fame Canning Co., 111 West Washington St., Chicago, Ill., will build 2 story, brick and timber, plain foundation, by day labor under supervision of Nyman Constr. Co., Cumberland. Archts. est. $100,000.

Wis., Milwaukee—Manufacturing—Seaman Body Corp., 1732 Richards St., 5 story, 100 x 400 ft., brick and timber, plain foundation, Richards St., to Worden-Allen Co., Port Washington Ave. Noted Feb. 19.

Wis., Milwaukee — Cold Storage and Warehouse—Amer. Wholesale Grocery Co., 235 Bway., 4 story and basement, 32 x 120 ft., brick and timbre, plain foundation, Bway., to H. Schmitt & Son, 430 Farwell Ave. Archts. est. $60,000. Noted Mar. 5.

Kan., Kansas City—Plant—G. C. Newland, general contract 2 story and basement, 40 x 80 ft. ice plant, rein.-con. and brick, to Rand & Miller, 619 Elks Bldg. Archts. est. $100,000.

Mo., Elsberry — Factory — Chamber of Commerce, c/o G. Crank, secy., 2 story, 50 x 175 ft., brick and concrete factory, to E. E. and J. Brother, Elsberry. Archts. est. $40,000. W. H. Lampe Shoe Co., 4060 Forest Park Blvd., St. Louis, lessee.

Mo., Eminence—Mill—Shawnee Copper Co. will build mine mill and concentrating plant, by day labor. $100,000. Private plans.

Mo., St. Louis—Factory—Phelan-Faust Paint Mfg. Co., 1215 Pine St., 1 story and basement, 36 x 50 ft., rein.-con., Loughborough St., to Hercules Constr. Co., Wainwright Bldg. Noted Jan. 22.

Okla., Ponca City—Laboratory and Office—Marland Refining Co., 2 story and basement, 60 x 114 ft., rein.-con. and brick, to R. McCormick, Ponca City. Archts. est. $100,000.

Calif., Glendale—Plant—Titania Chemical Co., 1 story, 70 x 300 ft., steel and corrugated iron plant, to Moran & Co., Kerchkoff Bldg., Los Angeles, approximately $200,000 incl. equipment.

Calif., San Francisco—Factory—Schlage Lock Co., 485 California St., 1 story, 100 x 210 ft., brick and steel, Bay Shore and San Bruno Aves., to Austin Co. of California, 244 Kearny St., $45,000.

Calif., San Francisco—Factory—L. R. Lurie, 315 Montgomery St., 3 story and basement, 80 x 115 ft., rein.-con., 4th and Stillman Sts., to Industrial Constr. Co., 815 Bryant St., $55,600. Glaser Bros., 621 Montgomery St., lessee. Noted Mar. 19.

Calif., San Jose — Plant — Pioneer Fruit Co., Wells Fargo Bldg., San Francisco, 1 story, timber packing plant, Bassett and Terraine Sts., to R. J. Sharp, 165 Polhemus St., $40,000.

Calif., Woodland — Plant — Woodland Democrat, 2 story, 60 x 84 ft. newspaper publishing plant, brick and concrete, to E. L. Younger, Porter Bldg., $43,250. Noted Mar. 12.

Buildings—Commercial

PROPOSED WORK

Mass., Malden—Store—S. J. Spector, 24 York St., Dorchester, having plans prepared by M. M. Halma, c/o owner, 1 story and basement, 60 x 430 ft., brick., 290-334 Main St. $160,000.

R. I., Newport—Hotel—Newport Community Hotel Assn., plans brick and steel, Bellevue Ave. and Touro St. $500,000. Thomas, Martin & Kirkpatrick, Otis Bldg., Phila., Pa., archts.

N. Y., Brooklyn—Theatre—Levy Bros., c/o T. W. Lamb, archt. and engr., 644 8th Ave., having plans prepared brick, steel and stone, plain foundation, Bedford Ave. and Lincoln Pl. $750,000.

N. Y., Buffalo—Medical Arts—M. Katz, c/o L. Greenstein, archt., Prudential Bldg., having plans prepared 3 story, 100 x 135 ft. rein.-con., brick and stone, North St. $250,000.

N. Y., Buffalo—Office and Business—L. A. Findlay, 53 Minnesota Ave., plans 5 story, 51 x 237 ft., West Huron St. To exceed $200,000.

N. Y., New York—Apartment—Renerck Realty Corp., c/o S. V. Becker, archt., 1301 Boston Rd., having plans prepared 5 story, brick, steel and stone, plain foundation, Shakespeare Ave. $200,000.

N. J., Elizabeth—Clubhouse—B. P. O. E. having plans prepared by Frank Grad, 245 Springfield Ave., Newark, brick, steel and stone, plain foundation, Elizabeth Ave. $150,000.

N. J., Newark — Hospital — Beth Israel Hospital, 651 High St., having plans prepared by F. Grad, archt. and engr., 245 Springfield Ave., 10 story, brick, steel and stone, plain foundation, Lyons Ave.

Pa., Allentown — Store — Zollinger & Horned Co., 611 Hamilton St., having plans prepared by J. T. Brugger, 508 Chestnut St., 4 story and basement, 86 x 230 ft., brick and steel, plain foundation, 6th and Hamilton Sts. Carson & Carson, 22 South 15th St., engrs.

Pa., Homestead — Store and Office — Wellman & Thomas Monumental Wks. making plans 5 story and basement 60 x 120 ft., granite and brick, 8th Ave. and West St. $150,000. Private plans.

Pa., Johnstown — Lodge — Johnstown Council 467, Knights of Columbus, plans 4 story and basement, 67 x 127 ft., concrete and brick, incl. gymnasium, bowling alleys, etc., Vine St., $150,000. Engineer and architect not selected.

Pa., Pittsburgh — Bank and Office — Colonial Trust Co., Diamond St., having plans prepared by F. J. Oesterling, 122 Isabella St., 2 story and basement, 45 x 130 ft., Wood St. $150,000.

Pa., Pittsburgh—Office—Owner c/o Freehold Real Estate Co., 311 4th Ave., having plans prepared by Hunting Davis Co., Century Bldg., 10 story and basement, 47 x 160 ft., brick and steel, Penn Ave. $600,000.

Pa., Somerset — Home — Somerset Co. Poor Bd., Court House, having preliminary plans prepared by E. H. Walker, 20 East Church St., brick addition. $150,000.

Fla., Orlando—Hotel—J. L. Giles & Son plan 6 story hotel, West Washington St. $400,000.

Fla., Plant City—Hotel—J. C. Jenkins and associates, plan 100 room hotel. $200,000.

Fla., St. Petersburg—Office—West Coast Holding Co., W. H. Gilbert, pres., having plans prepared by F. J. Kennard, 111 South Edison Ave., Tampa, 10 story, office building, 4th St. and Central Ave. $350,000.

La., New Orleans — Office—Engineering Dept., Bd. Port Comrs. 1 Canal St., preparing plans 2 story, rein.-con. and steel, foot of Canal St. $150,000.

La., New Orleans — Office — Favrot & Livaudais, archts., Hibernia Bank Bldg., preparing plans 7 story, office building, Canal and South Claiborne Sts., for Syndicate, J. D. Butler, Jr., pres., Canal & Commercial Savings Bank & Trust Co.

Tenn., Nashville—Hospitals—State Legislature plans 3 tuberculosis hospitals. $750,000. A. Peay, governor.

Ohio—Stores—McCrory Stores Co., R. C. Cunningham, 13 Central Sq., Youngstown, had plans prepared J. I. Kuhn, 13 Central Sq., new 3 story, 50 x 120 ft., brick and steel store in Alliance, and remodeling 3 story store building in Canton. $175,000. J. I. Kuhn, 13 Central Sq., Youngstown, dist. engr.

O., Canton—Mercantile—Thurin Carpet & Rug. Co., 205 2nd St. N. E., plans 2 story and basement, 33 x 200 ft. mercantile building, Market Ave. N. $150,000.

O., Cincinnati—Commerce—Chamber of Commerce, 126 East 4th St., having plans prepared by H. Hake, Telephone Bldg., 10 story and basement, 66 x 170 ft., rein.-con. and brick, 4th and Sycamore Sts. $1,000,000.

O., Cleveland—Commercial and Hotel—J. C. Gutbrod, 1814 West 25th St., plans 4 story and basement, 50 x 128 ft., brick, steel and concrete, West 25th St. and Jay Ave. $150,000. Engineer and architect not selected.

O., Cleveland—Store—Ames Co., c/o S. A. Feinstein, 156 West 34th St., New York City having plans prepared by Starrett & Van Vleck, 8 West 40th St., New York City, 2 story, 72 x 175 ft., brick, steel and concrete addition, East 2nd St. and Euclid Ave., here. $150,000.

O., Cleveland — Warehouse — B. H. Kroger Grocery & Baking Co., B. H. Kroger, pres., 813 Main St., Cincinnati, having plans prepared by C. M. Stegner, 707 2nd Natl. Bldg. Cincinnati, 4 story and basement, 200 ft. long, brick and rein.-con., East 55th St., here. $350,000.

O., Mariemont—Hospital—Mariemont Co., 1 Baker Court, Cincinnati, having plans prepared by S. Hannaford & Sons, 1024 Dixie Terminal Bldg., Cincinnati, 4 story and basement, rein.-con. and brick, plain foundation, here. $500,000.

O., Youngstown—Store—McCrory Stores Co., c/o S. R. Cunningham, 13 Central Sq., had plans prepared 6 story and basement, 100 x 150 ft., brick, steel and concrete, Central Sq. $300,000. J. I. Kuhn, 13 Central Sq., dist. engr. Noted Oct. 2.

Mich., Dearborn — Temple — Masonic Temple Assn., had plans prepared by G. D. Mason & Co., 80 Griswold St., Detroit, 3 story and basement, 60 x 110 ft., rein.-con., brick and steel, plain foundation, $150,000.

Mich., Detroit — Office — Book Estate, Book Bldg., Washington Blvd., plans 35 story and basement, about 100 x 120 ft. rein.-con., brick and steel, Washington Blvd. and Grand River Ave. To exceed $3,000,000. Engineer and architect names withheld.

Ill., Belleville — Temple — Bd. Trustees Masonic Lodge St. Clair 24, having preliminary plans prepared by W. B. Ittner, 911 Locust St., St. Louis, Mo., 2 story and basement; 92 x 120 ft., rein.-con. and brick, rubble foundation, A and Church Sts. $150,000.

Ill., Chicago — Theater — Earl Carroll Realty Corp., 755 7th Ave., New York City, plans brick and stone, plain foundation,

Buildings—Commercial (Continued)

here. $350,000. Engineer and architect not selected.

Ill., Murphysboro—Court House and Jail—Bd. Supervs. Jackson Co. making preliminary plans 3 story and basement, rein.-con., brick and stone court house and jail. $300,000 Engineer and architect not announced.

Ia., Cedar Rapids — Store and Office — Iowa Railway & Light Co., c/o W. G. Dows, Bows Bldg., having plans prepared by Childs & Smith, 720 North Michigan Ave., Chicago, Ill., 14 story and basement, 120 x 140 ft., rein.-con., brick and stone, 2nd Ave. and 2nd St. $1,000,000.

BIDS DESIRED

N. H., Manchester — Apartment — L. Seidel, c/o W. E. Provost, archt., 1061 Elm St., taking bids 90 x 100 ft., brick and timber, plain foundation. $170,000.

Mass., Boston — Hospital — Apr. 10, by City Auditor, City Hall, 9 story and basement, brick and limestone, plain foundation, Albany and East Concord Sts. $750,000. Ritchie, Parsons & Taylor, 15 Ashburton Pl., archts. Noted Sept. 4.

R. I., Central Falls—Clubhouse—Mar. 28, by J. F. Sullivan, pastor Holy Trinity Church, 3 story and basement, 70 x 75 ft., with 1 story, 27 x 90 ft. wing, brick clubhouse. $150,000. I. S. Gorman, 72 Weybosset, Providence, archt.

Pa., Erie—Exchange—Mutual Telephone Co., Erie, and Alden & Harlow, archts., Farmers Bank Bldg., Pittsburgh, taking bids 2 story and basement, 165 x 175 ft., brick and stone, 10th St. $150,000.

O., Lakewood (Cleveland P. O.)—Apartment — H. C. and A. T. Bisxanty, 1085 Leedale Ave., Cleveland, taking bids 3 story and basement, 40 x 160 ft., brick and timber, Lake Ave. west of Cook Ave., here. $175,000. C. S. Pennington, 14,707 Lake Ave., Cleveland, archt.

Ill., Riverside — Apartment — H. M. Meincke & Bro., 1247 South Grove Ave., taking bids 3 story and basement, 124 x 140 ft., rein.-con., brick and stone, Lincoln Rd. and Park. $200,000. Private plans.

Tex., New Braunfels—Hotel—Apr. 4, by H. Landa, and H. T. Phelps, archt. and engr., Hicks Bldg., San Antonio, 7 story and basement, 70 x 120 ft., rein.-con., brick and stone, plain foundation. $150,000. Noted Mar. 12.

Tex., San Antonio—Bank—May 7 (extended date), by Phelps & De Wees, archts. and engrs., Gunter Bldg., 1 story and part basement, 62 x 111 ft., rein.-con. and stone, plain foundation, Travis and St. Marys Sts., for Commercial Natl. Bank and Commercial Bank & Trust Co. $175,000. Noted Mar. 19.

Calif., Los Angeles—Exchange—Parkinson & Parkinson, archts., Title Insurance Bldg., taking bids 3 story and basement, 75 x 100 ft., brick and steel, Meridian St., for Southern California Telephone Co., 740 South Olive St. Noted May 1.

Calif., Los Angeles—Hotel and Store—F. Dorn, archt., Marsh-Strong Bldg., taking bids 3 story and part basement, 33 x 143 x 173 ft., brick, 7th St. and Central Ave., for F. R. Strong, c/o architect.

Calif., Sacramento — Depot — Bliss & Faville, archts., Balboa Bldg., San Francisco, taking bids 3 story, brick and rein.-con., North I St., near 5th St., here, for Southern Pacific R.R. Co., 65 Market St., San Francisco. $200,000.

BIDS RECEIVED

Pa., Phila.—Fire Headquarters—Dept. Pub. Safety, City Hall, Mar. 16, 3 story and basement, 107 x 129 ft., brick, plain foundation, 1328 Race St., from Kober Constr. Co., 37 South 17th St., $265,777. Noted Mar. 12.

CONTRACTS AWARDED

Mass., Boston — Garage — Kudish & Kager, 521 Seaver St., Roxbury, 1 story, 125 x 300 ft., rein.-con. and brick, 1246 Massachusetts Av., to N. Hurwitz, 294 Washington St., Boston. Archts. est. $200,000. Noted Mar. 5.

Mass., Gloucester — Club — Annisquam Yacht Club, 2 story, 60 x 100 ft., brick and timber, to R. A. Doyle, 32 Caldwell Crescent, Lynn. Archts. est. $150,000. Noted Jan. 8.

Mass., South Boston (Boston P. O.)—Garage—J. D. Marr, pres. D. Marr & Sons, 384 Dorchester Ave., will build 2 story, 100 x 200 ft., rein.-con. and steel, plain foundation, Old Colony Ave. and D. St., by day labor. $175,000. E. N. Adams, 86 Everett St., Arlington, archts. Noted Feb. 12.

Mass., Springfield — Station — Boston & Albany R.R., F. W. Freeman, ch. engr., South Station, 1 story, 121 x 302 ft., brick and stone, to New England Constr. Co., 274 Main St. Noted Mar. 5.

Mass., Wareham—Bank—Wareham Natl. Bank, c/o J. W. Beal Sons Co., archts., 62 Summer St., Boston, 2 story and basement, rein.-con., brick and stone, Main St., here, to G. Howard & Sons, Holbrook Bldg., Brockton. Archts. est. $150,000. Noted Feb. 5.

R. I., Olneyville (Providence P. O.)—Club—Providence Boy's Club, 226 South Main St., Providence, 2 story and basement, 70 x 170 ft., brick, Atwood St., here, to O. D. Purington & Co., 605 Ind. Tr., Providence. Archts. est. $160,000.

R. I., Providence—Garage—R. Williams Realty Co., Providence, and 50 East 42nd St., New York City, 6 story, brick and steel, Fountain, Union and Sabino Sts., to L. A. Scott Co., Grand Central Terminal, New York City. Archts. est. $1,000,000. W. S. Achorn, c/o R. L. Motor Co., 265 Plain St., lessee. This corrects report in Mar. 5 issue.

N. Y., Jackson Heights (Sta. Flushing)—Theatre — Grob & Knobel, c/o Jackson Theatre, brick, steel and stone, plain foundation, Northern Blvd. and 83rd St., to M. J. Kramer & Son, Grand Central Terminal, New York City. Archts. est. $1,000,000.

N. Y., Livingston—Office—Staten Island Edison Corp., St. George, 2 story office building, Richmond Terrace and Davis Ave., here, to J. G. White Eng. Corp., 43 Exch. Pl., New York City, about $250,000.

N. Y., New York—Apartment—Biltrite Impvt. Co., c/o J. M. Felson, archt. and engr., 220 West 57th St., will build 5 story, brick, steel and stone, plain foundation, Fulton Ave., by day labor.

N. Y., New York — Home — St. Marys Home for Working Girls, c/o E. F. Fanning, 134 East 44th St., 5 story, brick, steel and stone, plain foundation, 227 East 72nd St., to J. and W. C. Wallace, 282 11th Ave.

N. Y., New York—Office—Natl. Bd. Fire Underwriters, 76 William St., 14 story, brick, steel and stone, plain foundation, John and Gold Sts. to J. Stewart & Co., Inc., 17 East 42nd St. Archts. est. $1,150,000. Noted Mar. 12.

Pa., Dormont — Warehouse — White Transfer & Storage Co., 708 Duquesne Way, Pittsburgh, general contract 4 story and basement, 97 x 100 ft. warehouse, here, to Pittsburgh Eng. & Constr. Co., Homewood Ave., Pittsburgh. Archts. est. $150,000.

Pa., Gettysburg—Theatre and Hotel—Gettysburg Hotel Corp., 4 story and basement, 144 x 151 ft., brick and steel, plain foundation, to Austin Co., Jefferson Bldg., Phila. Archts. est. $400,000. Noted Jan. 8.

Pa., Phila.—Lodge—Central Hall Assn., c/o H. W. Rommell, chn., 555 North 17th St., 4 story and basement, 40 x 158 ft., brick and steel, plain foundation, 16th and Oxford Sts., to J. Y. Loux, 15th St. and Hunting Park. Noted Feb. 19.

Pa., Pittsburgh—Warehouse—Atlantic & Pacific Tea Co., 150 Bay St., Jersey City, N. J., general contract 3 story and basement, 80 x 119 ft. warehouse, Dallas Ave. and Penn. R.R., to Turner Constr. Co., 11 Goodell St., Buffalo, N. Y. Archts. est. $150,000.

Pa., Scranton — Store — Scranton Dry Goods Co., Lackawanna and Wyoming Sts., 8 story and basement, 57 x 137 ft., brick and steel, plain foundation, to Sinclair & Griggs, Medical Arts Bldg., Phila. Noted Feb. 26.

N. J., Newark — Warehouse — Lehigh Warehouse & Transportation Co., Inc., 118 Frelinghuysen Ave., 7 story, 100 x 120 ft., rein.-con., concrete pile foundation, Frelinghuysen Ave., to Turner Constr. Co., 244 Madison Ave.

Fla., Bradentown — Bank and Office — Bradentown Bank & Trust Co., 7 story, 50 x 100 ft., brick, steel and Indiana limestone, Manatee and Court Sts., to G. A. Miller, 28 Petteway Bldg., Tampa, $275,000. Noted Nov. 12.

Tenn., Nashville — Office — Bennie-Dillon Co., W. W. Dillon, pres., 304 3rd Ave. N., general contract (1st unit) 12 story and basement, concrete, brick and steel, 7th Ave. and Church St., to E. G. Holladay Constr. Co., 9th Ave. N., approximately $750,000. Noted Feb. 12.

O., Cleveland — Apartment — Hampton Impvt. Co., N. E. Berke, mgr., 826 Leader-News Bldg., 3 story and basement, 80 x 150 ft., 2899 Hampton Rd., to I. and B. Dolinsky, 6317 Kinsman Rd. Archts. est. $150,000.

O., Cleveland—Commercial and Studio—Syndicate, c/o J. Laronge, Union Trust Bldg., 12 story, 105 x 200 ft., brick and steel, 2508 Euclid Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $2,000,000.

Mich., Detroit — Mercantile — Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., 13 story and basement, 80 x 100 ft., rein.-con., brick and steel, plain foundation, Library Ave., for Crowley Milner Co., Gratiot and Farmer Sts., to O. Misch Co., 150 East Columbia Ave. Noted Feb. 12.

Ill., Edwardsville—Sanitorium—Madison Co. Tuberculosis Sanitorium, B. Hanke, chn., general contract 2 and 3 story, concrete, brick and stone, to W. C. F. Kuhne, Rentoul, $118,166. Noted Mar. 19.

Wis., Milwaukee — Apartment — Park Investment Co., c/o M. G. Peters, 755 Sherman Blvd., 3 story and basement, brick and concrete, plain foundation, Lisbon Ave., to H. Riesen & Son., 1155 Humboldt Ave., and Cutler Constr. Co., 886 46th St. Archts. est. $150,000. Noted Jan. 1.

Ia., Sioux City—Club House—Epiphany Council, Knights of Columbus, J. C. Mullaney, secy., Grain Exch. Bldg., general contract 2 story and basement, 76 x 261 ft., brick, steel and stone, 8th and Douglas Sts., to J. H. Keefe, 518 U. B. Bldg., about $130,000. Noted Mar. 19.

Kan., Atchison—Hotel—W. H. White, 5 story and basement, 72 x 100 ft., main building, etc., rein.-con., brick and terra cotta, to E. H. Lawhon Constr. Co., 905 Edmond St., St. Joseph, Mo. Archts. est. $200,000.

Kan., Ft. Scott—Memorial Auditorium—City, general contract 2 story and basement, 120 x 150 ft., rein.-con., brick and stone, to Blaser-Vollmer Constr. Co., Ft. Scott, $138,447. Noted Feb. 19.

Minn., Duluth—Apartment Hotel—O. C. Wick, 1001 East 7th St., 4 story and basement, 59 x 140 ft., and 37 x 140 ft., rein.-con., brick and timber, 1st Ave. W. and 3rd St., to F. A. Carlson, Lyceum Bldg., $150,000.

Mo., Kansas City—Business—Household Fair, 1012 Walnut St., will build 8 story and basement, 49 x 150 ft. rein.-con., brick and terra cotta, by day labor under supervision Greenbaum, Hardy and Schumacher, archts., 216 Scarritt Bldg.

Mo., St. Louis—Apartment—V. A. Chinberg, 808 Chestnut St., will build 3 story and basement, 60 x 89 ft., rein.-con., brick and stone, Chamberlin Ave., by day labor. $150,000. Nolte & Nauman, Fullerton Bldg., archts.

Mo., St. Louis—Community—Neighborhood Assn., 817 North 19th St., general contract 4 story and basement, rein.-con., brick and stone, plain foundation, to J. Hill Constr. Co., Syndicate Trust Bldg.

Mo., University City—Apartment—J. C. Jannopoulo, 726 Kingsland Ave., 4 story and basement, 100 x 100 ft., rein.-con., brick and stone, Delmar Blvd and Kingsland Ave., to H. A. Wagner, 112 North Bemiston St., St. Louis. Archts. est. $200,000.

Okla., Oklahoma City—Hotel—Huckins Hotel Co., 20 N. Bway., remodeling lobby and mezzanine floor and constructing main floor addition, rein.-con., brick and stone, to C. M. Dunning, 135 West Grand St. Archts. est. $150,000.

Ore., Portland — Apartment — E. A. Gudhart, 986 Garfield St., will build 5 or 6 story, 100 x 100 ft., rein.-con. and timber, plain foundation, 19th and Ever St., by day labor. $200,000.

Calif., Los Angeles—Hotel—C. Rosenthal, Los Angeles, 3 story and basement, 50 x 160 ft., brick, West 6th St., to Macdonald & Driver, Douglas Bldg., cost plus percentage basis.

Calif., Los Angeles—Hotel—Shostak & Goldware, 619 Union League Bldg., will build 4 story and basement, 106 room, brick and concrete, South Burlington St., by day labor. $175,000.

Calif., Los Angeles — Hotel, etc. — A. Schwartz, c/o W. E. Chadwick, designer, Union League Bldg., 3 story and basement, 60 x 110 ft., brick and concrete hotel and bath house, Chicago and Cable Sts. to Beaver Constr. Co., 1019 South Main St., approximately $150,000.

Calif., Los Angeles—Terminal and Office—Subway Terminal Corp., c/o Schultze & Weaver, archts., Pacific Mutual Bldg., 12 story, 140 x 325 ft., steel and rein.-con., Hill St., to P. J. Walker Co., Garland Bldg., approximately $2,500,000 fixed fee basis. Noted Feb. 5.

Calif., Los Angeles—Warehouse—H. J. Cole, 2 story (ultimately 4 story), 158 x 267 ft., rein.-con., Mateo St., to J. M. Cooper, Marsh-Strong Bldg. $260,000.

Calif., Los Angeles—Warehouse—Hayward—Wakefield Co., 215 East 6th St., 4 story (ultimately 8 story) 144 x 217 ft., rein.-con., 7th St., to J. M. Cooper, Marsh-Strong Bldg.

Calif., Oakland — Theatre — F. W. Maurice, 1362 East 25th St., will build 101 x 176 ft. bleecher type, rein.-con. theatre, 1,500 seating capacity, 14th St. and 21st Ave., by day labor. $350,000. Ackerman & Harris, Phelan Bldg., San Francisco, lessee.

Calif., San Francisco — Apartment — H. Wiedeman, 155 Henry St., 4 story and basement, rein.-con., Gough St. and Lily Ave., to E. V Lacey, 180 Jessie St., $150,000.

Calif., San Francisco — Apartment and Store—Dowling, Nuttman, McCarthy Co., 261 Valencia St., will build 5 and 7 story

Buildings—Commercial (Continued)

and basement, 75 x 100 ft., rein.-con., 14th and Valencia Sts., by day labor. $155,000. G. A. Berger, 261 Valencia St., archt. J. J. Walsh, 112 Market St., engr.

Calif., Stockton — Store — Woolworths Dept. Store Co., Rialto Bldg., San Francisco, 1 and 2 story, rein.-con., Sutter and Main Sts., here, to Macdonald & Kahn, 130 Montgomery St., San Francisco, approximately $150,000.

Ont., Ottawa—Office—Metropolitan Life Insurance Co., steel work for office building, Wellington St., to Canadian Bridge Co., Walkerville, about $200,000.

Ont., Oshawa—Exchange—Bell Telephone Co. of Canada, 2 story and basement, 50 x 80 ft., rein.-con. and brick, plain foundation, general contract to J. V. Gray Constr. Co., Confederation Life Bldg., Toronto; plumbing, heating, etc., to Libby & Libby, Oshawa.

Buildings—Educational, Religious

PROPOSED WORK

Mass., Agawam—School—Town plans 2 story high school. $150,000 or more. Engineer and architect not selected.

Mass., Cohassett — School — School Bd. plans 2 story school. $150,000-$175,000. Engineer and architect not selected.

R. I., Warren—School—H. De Wolf, chn. School Com., having plans prepared by A. H. Humes, 332 Main St., Pawtucket, 2 story, brick school, Childs St. $175,000. Noted Oct. 30.

N. Y., Buffalo — School — Bd. Educ., Genesee Bldg., plans manual training and domestic science room addition to School 39, High St. $150,000.

Pa., Erie — Church — Luther Memorial Congregation, having plans prepared by Alden & Harlow, Farmers Bank Bldg., Pittsburgh, 1 and 2 story and basement, 105 x 205 ft., brick or stone, 10th St. $200,000.

Pa., Pittsburgh — Church — Ebenezer Baptist Church, c/o J. C. Austin, pastor, 9 Junilla St., having plans prepared by C. W. Bolton & Son, 1505 Race St., Phila., 2 story and basement, 90 x 115 ft., stone, Wylie and Deville Sts. $250,000.

Pa., Pittsburgh — School and Chapel — Church of Nativity Roman Catholic Congregation, Franklin Rd., having plans prepared by C. G. Strong, Keystone Bldg., 3 story and basement, 55 x 100 ft. school and chapel, Franklin Rd. $150,000.

Pa., Sharon—Church—First Presbyterian Church, having preliminary plans prepared by W. H. Nicklas, 801 Gee Stone Bldg., Cleveland, O., 2 story and basement, incl. gymnasium, auditorium, sunday school and recreation rooms. $225,000.

La., Baton Rouge—Schools—Voted $1,000,000 bonds constructing schools. W. B. Hatcher, supt.

Kan., Lyons—School—Election Apr. 7, $150,000 bonds for school.

Kan., Newton—High School—Defeated $215,000 bonds for new Junior High School. Noted Feb. 19.

South Dakota—School, etc.—State Legislature appropriated $350,000 for rebuilding main building for normal school recently destroyed by fire, in Spearfish; $195,000 for womens building and furnishings, and $112,250 for soldiers home in Custer; $100,000 for boys and girls home, $25,000 for addition to power plant, $15,000 for laundry, $40,000 for dairy, and $75,000 for hospital in Redfield; $30,000 for boys dormitory and industrial building for the blind in Gary; and $15,000 for warehouse for hospital for insane in Yankton.

Tex., Midland—School—Voted $150,000 bonds, improvements to schools. J. B. Howe, secy. Bd. City Trustees.

Tex., Temple—School—Election Apr. 6, $210,000 bonds for school buildings, incl. $60,000 for Reagon School, etc. O. F. Gober, pres. School Bd.

Calif., Colusa—High School—Plans election $150,000 bonds for group fireproof high school buildings, for Colusa Union High School Dist.

Calif., Galt—High School—Galt High School Dist. defeated $150,000 bonds fireproof high school. Noted Mar. 5.

Calif., Los Angeles—School—City soon takes bids 1 and 2 story, 115 x 140 ft., rein.-con. and brick., Wilmington Park site. $150,000. H. Glidden, 2638 Artesian St., archt.

Calif., Los Angeles—School—City soon takes bids Franklin High School, 2 story, 65 x 200 ft. classroom building, and 122 x 204 ft. auditorium, etc., both brick and rein.-con. $350,000. Jeffery & Schaefer, Kerchkoff Bldg., archts.

Sask., Saskatoon—Laboratory and Engineering—University of Saskatchewan plans rebuilding tractor laboratory and engineering buildings, recently destroyed by fire. Loss $300,000. W. C. Murray, pres.

BIDS DESIRED

Mass., Arlington Heights (Boston P. O.) — Church — St. James Roman Catholic Church taking bids 1 story and basement, 110 x 150 ft., rein.-con., brick, stone and granite, plai n foundation, Appleton St. $150,000. W. B. Colleary 80 Boylston St., Boston, archt. Noted Mar. 12.

Mass., Worcester—School—Mar. 30, by Pub. Buildings Dept., Main and Front Sts., 2 story and basement, 60 x 120 ft., brick, Crawford St. $150,000. J. Rustigian, 405 Main St., archt. Noted Jan. 29.

Conn., New London—School—Apr. 1, by Bd. Educ., 18 room brick school, Mercer St. $150,000. J. G. Creighton, 140 State St., archt. Noted Jan. 15.

Conn., Norwich — School — St. Josephs Parish, S. A. Ilick, pastor, taking bids 2 story and basement, brick and cast stone, Bliss St. $150,000. J. Jackson, 185 Church St., New Haven, archt. Noted Feb. 26.

Pa., Donora — School — Apr. 1, by Bd. Educ. and C. C. Compton, archt., Donora, 3 story and basement, 56 x 132 ft. addition, McKean Ave. $150,000.

Pa., Harrisburg—High School—Apr. 13, by Harrisburg School Bd., Chestnut St., John Harris High School, 1 story, 312 x 332 ft., brick or stone, with 2 gymnasiums, auditorium, separate cafeteria and workshop. $980,000. Noted Dec. 11.

Pa., Pittsburgh — Church — Spencer Methodist Episcopal Congregation, 117 Spencer Ave., and C. W. Bier, archt., Pittsburgh Life Building, Pittsburgh, taking bids 1 story and basement, 75 x 143 ft., brick on hollow tile, Spencer Ave. $150,000.

Pa., Taylor—High School—Apr. 23, by School Dist., W. Thomas, secy., 2 story and basement, 123 x 150 ft., brick and steel, plain foundation. $175,000. J. J. Howley, Traders Bank Bldg., Scranton, archt. Noted Jan. 1.

Pa., Uniontown—High School—Apr. 3, by E. R. Johnson, archt., Fayette Title & Trust Bldg., Lafayette Jr. High School, 2 story and basement, Connellsville Ave. and Collins St., for Bd. Educ. $200,000. Noted Jan. 8.

Pa., Uniontown — High School — Apr. 3, by Bd. Educ., Ben Franklin Jr. High School, 2 story and basement, Morgantown St. $275,000. H. W. Altman, Fayette Title & Trust Bldg., archts. $275,000. Noted Jan. 8.

O., Cleveland — Church — Apr. 4, by Nativity Blessed Virgin Mary Roman Catholic Church, V. A. Chaloupka, 9614 Aetna Rd., 1 story and basement, 70 x 154 ft., brick, steel and concrete, Aetna Rd., $155,000. W. C. Jansen, 1227 Prospect Ave., archt.

O., Galion—High School—Apr. 2, by Bd. Educ., Junior High School, 3 story and basement 127 x 238 ft., brick, steel and concrete. $350,000. Althouse & Jones, Mansfield, archts. Noted Dec. 11.

Mich., Royal Oak—Schools—Mar. 30, by C. Rock, secy. Bd. Educ. Dist. 7, 2 story and basement, rein.-con., brick and steel, plain foundation, Scotia Rd. and Morrison Ave. $200,000. Lane, Davenport & Peterson, 1017 Charlevoix Bldg., Detroit, archts.

Ill., Fairfield—High School—Mar. 31, by Bd. Educ., c/o J. T. Blakeley, secy., main building 3 story and basement, 60 x 160 ft., and gymnasium 54 x 70 ft., rein.-con., brick and stone. A. L. Pillsbury, Peoples Bank Bldg., Bloomington, archt.

Wis., Racine—School—Apr. 9, by Bd. Educ., A. Schafer, secy., 2 story, brick and tile addition to Pratt School, plain foundation. $150,000. J. M. Matson, Baker Block, archt.

Ia., Creston—School—Mar. 31, by Secretary Bd. Educ., 2½ story, 154 x 208 ft., concrete, brick and stone. $260,000. Keffer & Jones, 204 Masonic Temple, Des Moines, archts. Noted Mar. 12.

Ia., Des Moines—Schools—Mar. 31, by G. L. Garton, secy. Bd. Educ., 2 story and basement, brick and concrete additions to Howe School, Southwest 7th St. and Indianola Rd., $75,000, and to Hubbell School, $85,000, Vorse, Kraetsch & Kraetsch, 1201 Commonwealth Bldg., archts.; 2 story and basement, brick and concrete additions to McKinley School, $75,000, Casady School, $60,000, and Rice School, Proudfoot, Rawson & Souers, 810 Hubbell Bldg., archts.

Tex., Bowie—High School—W. G. Clarkson & Co., archts., 1st Natl. Bank Bldg., Ft. Worth, taking bids 2 story and basement, rein.-con., brick and steel concrete pile foundation, for Bowie Industrial School Dist., c/o I. L. Chandler, secy. $150,000. Noted Jan. 15.

Ore., Woodburn — School — Apr. 3, by State Bd. Control, Salem, group of 1, 2 and 3 story, rein.-con. and steel school buildings, 1½ mi. north of here. $200,000. Knighton & Harroll, U. S. Natl. Bank Bldg., Portland, archts.

BIDS RECEIVED

N. Y., Brooklyn — School — W. H. Gompert, supt. school building, Flatbush Ave. extension and Concord St., Mar. 18, P. S. 63, Williams Aves., general contract from G. F. Driscoll, 115 Schermerhorn St., $474,890; plumbing, from A. J. Hendel, 32 Railroad Ave., Corona, $37,977; heating, from D. J. Rice, 405 Lexington Ave., New York City, $65,875. Noted Mar. 5.

Ia., Iowa City — Medical Laboratory — W. H. Gemmill, secy, State Bd. Educ. Mar. 17, general contract 3 story and basement, 210 x 316 ft., rein.-con., brick, steel, tile and stone, from Madsen Constr. Co., 848 Builders Exch., Minneapolis, Minn., $570,000. Noted Mar. 5.

Calif., Berkeley — Gymnasium — University of California, 708 15th St. (1st unit), Phoebe Hearst Memorial, 3 story, concrete gymnasium, from K. E. Parker Co., 519 California St., San Francisco, approximately $300,900. Total $1,000,000. Noted Jan. 15.

Calif., Pasadena — School — Bd. Educ., general contract Madison Elementary School, 2 story, 206 x 218 ft., brick, from A. Johnson Co., 1007 South Grand Ave., Los Angeles, $118,918. Noted Mar. 19.

Calif., South Pasadena — Academic — Trustees South Pasadena High School Dist., general contract 2 story and basement, approximately 75 x 200 ft., brick academic building at high school, from J. F. Atkinson, Story Bldg., Los Angeles, $128,000. Noted Jan. 15.

CONTRACTS AWARDED

N. H., Milford—School—Bd. Selectmen, 2 story and basement, 70 x 150 ft., brick and stone, plain foundation, to Hoyt Constr. Co., 85 Dartmouth St., Holyoke. Archts. est. $150,000. Noted Feb. 5.

Mass., Cambridge (Boston P. O.)—School—Harvard University, group of 18 buildings, Charles River, to Hegeman Harris Co., Inc., 360 Madison Ave., New York City. Archts. est. $5,000,000. This corrects report in Mar. 19 issue.

Mass., Revere (Boston P. O.)—Church—St. Anthoney's Roman Catholic Parish, E. Roval, pastor, 1 story and basement, brick, steel and cast stone, Revere St., to Capobiance Constr. Co., 46 Cornhill St., Boston. Archts. est. $150,000.

R. I., Phoenix—School—School Bd., 2 story and basement, brick, to R. J. McIntyre, 6 Fairoaks Bldg., Providence. Archts. est. $150,000. Noted Mar. 19.

N. Y., New York—High School—Catholic Archdiocese of New York, c/o R. J. Reilly, archt. and engr., 50 East 41st St., brick, steel and stone, plain foundation, 50th St. and Lexington Ave., to P. J. Brennan & Son, 624 Madison Ave. Archts. est. $1,000,000.

N. J., Red Bank—School—Bd. Educ., general contract 18 room addition to River St. School, to H. Getty, Little Silver, $216,050; heating and ventilating, to J. H. Martin, 1 West 34th St., New York City, $37,250.

Pa., Grove City—Church—First Presbyterian Church, general contract 1 and 2 story and basement church, to H. Platt Co., Erie, $259,600.

Pa., Lewistown—Church—Grace Evangelical Church, Logan and Spruce Sts., general contract 2 story and basement, 80 x 100 ft., church, Logan St., to W. D. Steinbachs Sons, Lewistown, $71,000; furnishing stone, to S. Ruff & Son, 15 East Fayette St., Baltimore, Md., $54,000. Archts. total est. $175,000. Noted Mar. 5.

Pa., Pittsburgh—Church—Sacred Heart Roman Catholic Congregation, c/o T. F. Coakley, pastor, 5934 Center Ave., general contract (1st unit) 2 story and basement, church, Shady and Walnut Sts., to Duquesne Constr. Co., Cypress and Aspen Sts. Archts. est. $270,000. Total group $1,500,000. Noted Mar. 5.

Md., Baltimore—School—Bd. Awards, 1 story and basement, brick, plain foundation, Allen Dr., Glen-Rokeby Rd. and Dryden Dr., to H. L. Maas & Son, Munsey Bldg., $154,500. Noted Mar. 19.

Md., Bowie—Administration—State Bd. Educ., 2014 Lexington Bldg., Baltimore, 2 story and basement, 103 x 136 ft., brick administration building and additions, plain foundation, here, to H. L. Maas & Son, Munsey Bldg., $150,000. Noted Feb. 12.

Mich., Detroit—School—C. A. Gadd, secy. Bd. Educ., 1354 Bway. Ave., 2 story and part basement, 100 x 145 ft., rein.-con., brick and steel, plain foundation, Plymouth Rd. and Livernois Ave., to W. W. DeLange, 7040 Farnsworth Ave., $177,000. Noted Feb. 26.

Wis., Milwaukee — Synagogue — H. H. Bruns, archt., 845 26th St., superstructure

Buildings—Educational, Religious (Con't)

for 2 story, 60 x 130 ft., brick and concrete, 11th and Vine Sts., to Reisinger & Co., 466 Oakland Ave., for Congregation Ansche Lebowich, J. Schefrin, 2219 Chestnut St. Archts. est. $150,000. Noted Feb. 19.

Wis., Racine — School — Bd. Educ., A. Schafer, secy., general contract 2 story and basement, brick and tile addition to Knapp School, plain foundation, to J. C. Jensen, 2342 Meachem St., $90,000. Noted Mar. 5.

Neb., Omaha—High School—Bd. Educ., c/o C. V. Warfield, City Hall, 4 story and basement, 84 x 112 ft., brick, steel and stone high school to Parsons Constr. Co., 404 Arthur Bldg., $547,660. Noted Sept. 4.

Mo., O'Fallon—Chapel—St. Mary's Convent, c/o W. Wilhelmin, mother superior, 1 story, basement and balcony, 100 x 135 ft., rein.-con., brick and stone, to Hopehouse Constr. Co., Okonee, Ill. Archts. est. $150,000.

Mo., Springfield—Dormitory, etc.—Drury College, general contract concrete and stone girl's dormitory, to G. F. Henschel, 1211 South Pickwick St.; also rein.-con. and stone library, to Pauly Constr. Co., Land Bank Bldg. Noted Mar. 5.

Calif., Long Beach — High School — Bd. Educ., general contract for Woodrow Wilson High School, rein.-con., to J. D. Sherer & Son, 1865 East Anaheim St., for City. $408,425. Noted Mar. 12.

Calif., South Pasadena — School — Trustees South Pasadena High School Dist., general contract 2 story and basement, brick high school, to J. F. Atkinson, 1102 Story Bldg., Los Angeles, $128,000. Noted Jan. 15.

Federal Government Work

PROPOSED WORK

Mass., Chelsea—Quarters—Bureau Yards & Docks, Navy Dept., Wash., D. C., having sketches made officers quarters at Naval Hospital, here. Private plans.

N. Y., New York — Chimney — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans brick chimney, 200 ft. high, 10 ft. inside diam., at Navy Yard, here.

Mo., Fayette — Post Office — U. S. Post Office Dept., Wash., D. C., plans 1 story and basement, rein.-con. and brick post office, here.

Colorado — Roads — Bureau Pub. Rds., Custom House, Denver, plans grading 3 mi. Independence Pass Rd.; 4 mi. Tennessee Pass Rd., 5 mi. West Creek Decker Rd.; 5 mi. Fremont Pass Rd.; 4 mi. Exeter Lake-Chicago Creek Co.; and 5 mi. Cumbres Pass Rd. J. W. Johnson, Custom House Bldg., Denver, engr.

Calif., Mare Island—Paving—Spec. 5092 —Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids asphalt paving on causeway connecting Mare Island with Vallejo, here.

BIDS DESIRED

Mass., Amherst—Post Office—Apr. 15, by Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office building, here. J. A. Wetmore, acting supervising archt.; adv. E. N.-R. Mar. 26.

Mass., Northampton - - Recreation — Apr. 21, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., recreation building and covered walk, etc., at U. S. Veterans Hospital 95, here; adv. E. N.-R. Mar. 26.

N. Y., Governors Island—Repairs—Apr. 16, by Constructing Quartermaster, Room 510, 39 Whitehall St., New York City, repairing car ferry slips, here; adv. E. N.-R. Mar. 26.

Va., West Huntington—Dwellings—Apr. 10, by U. S. Engineer Office, War Dept., Wash., D. C., constructing 5 dwellings at Dam 32 Ohio River, here.

La., New Orleans—Levee Work—Fourth Mississippi Dist., 140 Decatur St., taking bids constructing 4,500,000 cu.yd. earth work as follows: In Lower Tensas Levee Dist., Concordia Parish, 30,000 cu.yd. Boudrant Levee, 695,000 cu.yd. Helena-Concordia Levee Dist., 103,000 cu.yd. Forest-Homo Levee Dist., 300,000 cu.yd. Grooms Levee, 309,000 cu.yd. Fish Pond Levee Dist., 1,000,000 cu.yd. Bougere-Middio Levee Dist., 300 cu.yd. Point Breeze Levee; in Atchafalaya Levee Dist., Ascension and Iberville Parishes, 300,000 cu.yd. New Hope Levee, 230,000 cu.yd. Tenessee Levee, 275,000 cu.yd. White Castle Levee, 180,000 cu.yd. Babin Levee, 126,000 cu.yd. Evanhall Levee; in Baratavia Levee Dist., Plaquemine Parish, 39,000 cu.yd. Belle Chasse Levee, 45,000 cu.yd. Deer Range Junior Levee, 23,000 cu.yd. Woodland Levee, 13,600 cu.yd. Socola Levee, 13,600 cu.yd. Amoretti Levee, 15,000 cu.yd. Home Place Levee; in Pontchartrain Levee Dist., St. James, and Lake St. Charles Parishes, 430,000 cu.yd. Angelina Levee, 65,000 cu.yd. Ormond Levee, 50,000 cu.yd. Red Church Levee; in Lake Borgni Levee Dist., Plaquemine Parish, 191,000 cu.yd. Caernavon Levee, 18 cu.yd. Harlom Levee.

Ore., Portland—Hospital—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., takes bids about May 12, veterans' hospital, here.

Calif., Point St. George—Garage—Apr. 15, by Pub. Wks. Office, Navy Yard, Mare Island, garage at radio station, here.

Calif., San Diego—Surfacing—Spec. 5089 —Apr. 8, by Bureau Yards & Docks, Navy Dept., Wash., D. C., surfacing warming up platform, here.

BIDS RECEIVED

Ill., Great Lakes—Buildings, etc.—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., constructing U. S. Veterans Hospital here, general contract from Murch Bros. Constr. Co., Ry. Exch. Bldg., St. Louis, Mo., (a) $526,184 (b) $89,765 (c)$97,000 (d) add $300 (e) $2,000 (f) deduct $2,500; plumbing and heating, from C. A. Hooper, 453 West Gilman Ave., Madison, Wis., $66,000 and $62,000 respectively. Noted Feb. 12.

Tex., Gilmer—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office, here, from A. C. Samford, Montgomery, Ala., $38,779. Noted Feb. 19.

CONTRACTS AWARDED

Md., Annapolis—Well Houses—Spec. 5056 —Bureau Yards & Docks, Navy Dept., Wash., D. C., well houses at Naval Academy, here, to S. B. Dove, 597 W St., $2,953 (120 days). Noted Feb. 5.

Md., Baltimore—Repairs—Treas. Dept. at office Supervising Archt., Wash., D. C., repairing, reroofing, etc., at Immigration Sta., here, to J. T. Hazard, 919 Light St., $26,675. Noted Mar. 5.

Va., Quantico—Surfacing Bridge—Bureau Yards & Docks, Navy Dept., Wash., D. C., surfacing bridge, here, to L. M. Johnson, Arlington, $2,375 (60 days). Noted Mar. 19.

Ala., Florence—Generators, etc.—U. S. Engineer Office, Florence, installing four 32,500 kva. generators and switchboard and wiring apparatus, here, to General Electric Co., River Rd., Schenectady, N. Y., $276,357.

Mo., Jefferson Barracks (Ind. Br. St. Louis) — Storehouse — U. S. Veterans' Bureau, Room 791 Arlington Bldg., Wash., D. C., storehouse for U. S. Veterans' Hospital 92, here, to W. MacDonald Constr. Co., Syndicate Trust Bldg., St. Louis, $26,394. Noted Mar. 12.

Calif., San Diego—Paving, etc.—Spec. 5071—Bureau Yards & Docks, Navy Dept., Wash., D. C., paving here, "A" to Pioneer Truck Co., 5th and K Sts., $16,950 (150 days); "B" to R. E. Burgund, Heegard Bldg., Beverly Hills, $16,600 (150 days). Noted Mar. 12.

Unclassified

PROPOSED WORK

Land Development — Brookline (Boston P. O.), Mass.—F. Holdsworth, 50 State St., Boston, plans developing about 5 acres land for building purposes incl. paving, grading sewers water and gas mains in Warren and Lee Sts., here. To exceed $25,000. E. W. Branch, Quincy, engr.

Street Lighting System — Dorchester (Boston P. O.), **Mass.** — City of Boston plans great white way lighting system in Franklin Park, Columbia Rd., Dorchester Ave., Richmond, Adams and Washington Sts., here. $25,000. J. A. Rourke, Dept. Pub. Wks., Boston, comr.

Memorial Entrance—Marlboro, Mass.—Town, J. M. Hurley, mayor, plans memorial entrance to New City Park. $35,000 donation. Private plans.

Pavilions, etc.—Nashville, Tenn.—State Legislature authorized issuance of $250,000 bonds, for pavilions and other buildings on fair grounds, for Tennessee State Fair Assn., Cumberland Park, L. Hickman, chn.

Car Barns—Aurora, Ill.—Aurora, Elgin & Fox River Electric Co. having preliminary plans prepared 1 and 2 story, rein.-con. and steel car barns, South River Street. $325,000.

Subway — Arkansas City, Kan. — Voted $175,000 bonds subway under Atchison, Topeka & Santa Fe R.R. tracks, on Madison and Chestnut Aves. G. R. McIntosh, mayor. Noted Mar. 12.

Retaining Wall — Wichita, Kan. — See "Excavation, Drainage, Irrigation, Levees."

Gas Line Extension — Texas — W. H. Morefield & Co., Tyler, plans extending gas lines from Waskom to Longview and Tyler. $650,000. Private plans.

Wharves, etc.—Beaumont, Tex.—Voted $225,000 bonds wharves and docks. R. C. Black, city engr. Noted Dec. 25.

Street Lighting System — Alhambra, Calif.—Made plans ornamental street lighting system on portions of Curtis Ave. and Valley Blvd. $25,000 or more. M. H. Irvine, city mgr.

Street Lighting System—Covina, Calif.—Making plans ornamental street lighting system on various streets. $25,000. A. E. DeMott, city engr.

Street Lighting System—Fresno, Calif.—Made plans c.i. and steel standards on portions of Dudley and Olive Aves. To exceed $25,000. W. Stranahan, city engr.

Street Lighting System — Hawthorne, Calif. — Plans street lighting system on Hawthorne Ave., Raymond, Acacia Sts., etc. $25,000 or more. V. H. Staheli, city engr.

Ornamental Street Lighting System — Newport Beach, Calif.—Making plans concrete standards, etc., on streets in Balboa Island Dist. $30,000. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Street Lighting System—Newport Beach, Calif. — Plans ornamental street lighting system on Coast Blvd. between 38th St. and city limits. $25,000 or more.

Retaining Wall—San Francisco, Calif.—See "Streets and Roads."

Oil Distribution System — San Mateo, Calif.—See "Buildings—Industrial."

Piers—Grandes Piles, Que.—St. Maurice River Boom & Driving Co. Ltd., Three Rivers, plans 2 cribwork mooring piers, here. $30,000. C. H. Michaud, Three Rivers, engr.

Power and Electric System—Nomininque, Que.—D. J. Valiquetti, plans water power and electric system. $25,000. Engineer's name withheld.

Jetties, etc. — Three Rivers, Que. — St. Maurice Lumber Co., Three Rivers plans 2 long cribwork jetties and series of 54 bunkers on Mekiac River. $100,000. P. Dufresne, c/o owner, engr.

Hydro Electric Power Development—Ontario — Hydro Electric Power Comn., 190 University Ave., Toronto, plans to investigate and prepare report on water power development on Cataraqui River, Leeds Co. $750,000. F. A. Gaby, ch. engr.

Memorial — Ottawa, Ont. — Dept. Pub. Wks., Parliament Bldgs., will receive designs until June 11, for war memorial, on Connaugh Pl. $100,000. Engineer not selected. S. E. O'Brien, secy.

Power Line—Port Colborne, Ont.—Ontario Hydro Power Comn., University Ave., Toronto, plans extending power lines 10 mi. west from here. $50,000. A. Beck, London, chn.

Road Building Plant, etc.—Saulte Ste. Marie, Ont.—Plans equipping road building plant, incl. construction dock for handling gravel, etc. R. G. Campbell, City Hall, engr.

Swimming Pool—Toronto, Ont.—Harbor Comn., Harbor Comn. Bldg., making plans 50 x 250 ft. concrete swimming pool. $75,000. J. R. Wainwright, Harbor Comn. Bldg., engr.

Grain Jetty, etc.—Vancouver, B. C.—Harbor Commissioners, 712 Pender St. W., making plans grain jetty and berths to No. 2 elevator, $850,000; 1,000,000 bu. annex to No. 1 elevator, $500,000; terminal railway development, $150,000; new fishermans wharf, $150,000; cold storage plant for fish, $90,000; and alterations to Second Narrows Bridge $80,000. W. G. Swan, ch. engr.

BIDS DESIRED

Swimming Pool, etc.—Holyoke, Mass.—Bd. Pub. Wks., taking bids 40 x 75 ft. swimming pool, and 20 x 60 ft. shelter house. P. E. Pond, City Hall, engr.

Inspection Sheds—New York, N. Y.—Apr. 2, by Bd. Transportation, 49 Lafayette St., inspection sheds in Westchester and Wakefield Yards, on Pelham Bay Park and White Plains Ave. branches of Interborough, Bronx Boro.

Subway—New York, N. Y.—Apr. 3, by Bd. Transportation, 49 Lafayette St., section of Central Park West-Washington Heights subway line along Central Park West from 68th to 77th Sts.

Tunnel Improvements—New York, N. Y. —Apr. 7, by New York State Bridge & Tunnel Comn., and New Jersey Interstate Bridge & Tunnel Comn., Woolworth Bldg. glazed wall tile and enamels, painting and concrete ceiling, slides, screws, frames and doors, etc., for interior finish of Holland Tunnel, Contr. 7.

Tunnel — Sonyea, N. Y. — Apr. 23, by Superintendent Purchase, Capitol, Albany, constructing tunnels and underground heat-

Unclassified (Continued)

ing service lines at Craig Colony, here. S. W. Jones, state archt.; adv. E. N.-R. Mar. 26.

Underground Conduit—Detroit, Mich.—Apr. 9, by Pub. Lighting Comn., 174 East Atwater St., constructing 14 sections A4 to A17 inclusive, underground conduit system starting at Morrell St. at new power plant, extending through 30 streets, incl. East and West Grand Blvds. Smith, Hinchman & Grylls, 800 Marquette Bldg., engrs.

White Way System—Altamont, Ill.—Apr. 6, by J. E. Rhodes, mayor, 92 lighting units 13 ft. reinforced hollow ornamental concrete posts with extended base or concrete foundations, one 12 or 15 kva. transformer, one series regulating control panel, two S. P. 2,500 v. lightning arresters, 19,000 ft. No. 8 2,500 v. parkway cable, 2,300 ft. No. 10 D. B. R. C. 600 v. wire in posts, 12 street intersection traffic guide light fixtures, etc. W. A. Fuller Co., Railway Exch. Bldg., St. Louis, Mo., engrs.

Grain Elevator — Enterprise, Kan. — Kansas Flour Mills Co., Postal Telegraph Bldg., Kansas City, Mo., taking bids 36½ x 36½ ft. work house, incl. 15 storage bins 50,000 bu. capacity, storage house to have 8 circular tanks, 19½ ft. diam., 90 ft. high and 3 interstice bins of 200,000 bu. capacity, etc. $100,000. Horner & Wyatt, 300 Board Trade Bldg., Kansas City, Mo., archts. and engrs. Noted Mar. 19.

Underpass—Winnemucca, Nev.—Apr. 1, by State Hy. Comn., Carson City, 685 ft. underpass under Central Pacific R.R. tracks, here, 7,750 cu.yd. unclassified excav., 370 cu.yd. excav. for 450 lin.ft. 15 in. concrete pipe, etc. Railroad places falsework to support railroad during construction, also structural steel deck and piles. G. W. Borden, state highway engr.

Undergrade Crossing—California—Apr. 6, by State Hy. Comn., Sacramento, undergrade crossing 30 ft. wide, consisting 62 ft. through plate girder, ballast deck bridge on triangular concrete abutments under Western Pacific R.R. tracks, near North Sacramento; undergrade crossing 30 ft. wide, consisting 61 ft. skewed, through steel girder, open deck spans on concrete piers under Sacramento Northern R.R. tracks near North Sacramento, both Sacramento Co.; also 1,130 ft. structural steel and timber sidewalk, 1,111 ft. 16 ft. 9 in. r.w. block roadway pavement on bridge over Eel River, near Scotia, Humboldt Co. R. M. Morton, Sacramento, engr.

BIDS RECEIVED

Station Finish—New York—Bd. Transportation, 49 Lafayette St., New York City, Mar. 20, station finish work for Vernon-Jackson Aves., station on Queensboro Subway Rapid Transit R.R., Queens Boro, and for Montrose Ave. Sta. of 14th St. Eastern Rapid Transit R.R., Brooklyn Boro, from W. Mitchell, 1 DeKalb Ave., Brooklyn, $84,000; miscellaneous construction, etc., at Times Sq. Sta., Manhattan Boro, from Slattery Eng. Co., 10 East 43rd St., New York City, $5,767. Noted Mar. 12.

Subway—Phila., Pa.—H. E. Ehlers, at office Dept. City Transit, 7,184 ft. subway in Broad St. from Stiles to Filbert Sts., combination bid from Winston & Co., Inc., C. A. Locher and Frederick L. Cranford, Inc., foot 6th St. and Gowanus Canal, Brooklyn, N. Y., $16,749,936; from Keystone State Constr. Co., 210 South 13th St., $16,863,437; from Booth & Flinn Ltd., 17 Battery Pl., New York City, $16,965,408; from Patrick McGovern, Inc., 50 East 42nd St., New York City, $17,234,318; from Arundel Corp., Pier 2, Pratt St., Baltimore, Md., $17,490,754; from Rodgers & Hagerty, Inc., Grand Central Terminal, New York City, $17,900,173. Noted Feb. 19.

Pier Extension—San Francisco, Calif.—State Bd. Harbor Commissioners, Ferry Bldg., 200 ft. creosoted pile shed and 646 ft. track extensions on north and south sides of Pier 40, from Clinton Constr. Co., 923 Folsom St., $96,400. Noted Mar. 12.

CONTRACTS AWARDED

Stadium—New Castle, Pa.—Bd. Educ., general contract concrete and steel stadium, to E. E. Austin & Sons, Erie, Pa. $40,500. Noted Mar. 5.

Conduit — Kansas City, Mo. — Kansas City Power & Light Co., 14th and Grand Sts., will replace overhead feeder lines with underground conduits, by day labor. $250,000.

Ferry Boat—Quebec, Que.—Traverse De L'Ile D'Orleans Ltd., Quebec, 43 x 150 ft. steel ferry boat, 14 ft. draught, to Davie Shipbuilding & Repairing Co., Lauzon, $175,000.

Wall—Fraser River, B. C.—S. E. O'Brien, minister Dept. Pub. Wks., Ottawa, Ont., brush, rock and sand filled retaining wall at Woodwards Slough, here, to N. E. Broley, 2167 6th Ave. W., Vancouver, $70,000. Engrs. est. $50,000.

Penstock—Powell River, B. C.—Powell River Co. Ltd., new 1,365 ft. penstock 14 ft. diam. to Horton Steel Wks., Bridgeburg, $102,000.

Material and Equipment

PROPOSED WORK

Tractor—Sonora, Calif.—City plans to purchase street tractor. $3,000-$5,000.

BIDS DESIRED

Cement, etc.—Holyoke, Mass.—Mar. 31, by Bd. Pub. Wks., asphalt for penetration, cement, cold patch, curbing, expansion joint, reinforcing rods, road oil, one 10 ton tandem roller and one grader for 5 ton tractor, etc. G. F. Stone, asst. clk.

Asphalt, etc.—Springfield, Mass.—Apr. 8, by Dept. Streets and Engineering, furnishing as per specifications or penetration construction, asphalt for road surfacing or binding, asphaltic and non-asphaltic road oils, hot and cold tars, castings, sewer pipe, trap rock, cement and curbing. R. P. Marsh, supt.

Basin Cleaning Machines — New York, N. Y.—Apr. 1, by J. Miller, pres. Manhattan Boro, Municipal Bldg., 2 basin cleaning machines.

Tractor, etc.—St. George, N. Y.—Mar. 31, by J. A. Lynch, pres. Richmond Boro, Boro Hall, one 3 ton tractor, one 3 ton truck with dump body, and two 2 ton trucks to Clove Rd. garage.

Graders—Trenton, N. J.—Apr. 9, at office State Hy. Comn., Broad St. Bank Bldg., 20 tractor graders. A. L. Grover, secy.; adv. E. N.-R. Mar. 26.

Street Signs, etc.—Miami, Fla.—Apr. 22, at office City Engineer, 1,076 street sign plates or other markers, etc. C. W. Tomlinson, city clk.; adv. E. N.-R. Mar. 26.

Rock Asphalt — Nashville, Tenn. — Mar. 31, by Bd. Pub. Wks., 800 tons rock asphalt, f.o.b. Nashville. W. W. Southgate, city engr.

Asphalt Heaters—Milwaukee, Wis.—Mar. 30, by Central Bd. Purchases, 2 portable asphalt heaters.

Concrete Mixers—Milwaukee, Wis.—Mar. 31, by Central Bd. Purchases, City Hall, three 1 bag capacity gasoline driven concrete mixers.

Dragline Outfit, etc.—Saxon, Wis.—W. Weber, highway comr. Iron Co., in market for 1 dragline outfit and steam engine.

Screen and Loading Outfit—Fairbault, Minn.—Apr. 2, by F. M. Kaisersatt, aud Rice Co., 1 portable screen and loading outfit for use in road maintenance and construction.

Gasoline Loader, etc.—Minneapolis, Minn.—Apr. 2, by F. S. Gram, city purch. agt., one gasoline bucket loader, two 4 ton gasoline road rollers, and one 1½ cu.yd. clam shell bucket hoist, crawler type. N. W. Elsberg, city engr.

Oil Distributor — Minneapolis, Minn. — Apr. 3, by F. S. Gram, city purch. agt., one 850 gal. oil distributor, and one 3½ ton truck. N. W. Elsberg, city engr.

Brick, etc.—St. Paul, Minn.—Mar. 31, by H. W. Austin, city purch agt., 4,294 sq.yd. 3 in. vertical fibre brick, 133 sq.yd. 3½ in. creosoted wood block, 31 sq.yd. sandstone paving, 12,300 bbl. Portland cement, 8,860 cu.yd. crushed rock or gravel, 589 tons asphalt etc., for paving Central Ave. and Dunlap St. C. M. Shepard, city engr.

Steel—Nebraska—Mar. 31, by State Capitol Comn., Lincoln, approximately 80,000 lbs. steel for temporary railroad bridges. A. McMullen, chn.

Road Machinery—Bowbells, N. D.—Apr. 4, by C. J. Kopriva, aud. Burke Co., road machinery, incl. elevator graders, dump wagon, road maintainers and gravel loaders, new or used.

Trucks, Etc.—Kansas City, Mo.—See "Waste Disposal under contracts awarded."

Tractors—Austin, Tex.—Apr. 4, by G. S. Mathews, judge Travis Co., 3 tractors, not less than 40 hp. for use on roads, f.o.b. here. O. Leonard, Austin, co. engr.

Pipe—Dallas, Tex.—M. G. James, city secy., taking bids 300 tons 6 in. Class B bell and spigot or De Lavaud c.i. pipe, 12 or 16 ft. lengths; also fifty 4 in. Class D c.i. plugs, delivered to 701 Bourbon St.

Tractor, etc. — Galveston, Tex. — A. C. Kelly, city secy. taking bids 5 ton gasoline tractor of track laying type; and one 8 ft. road grader equipped for tractor and horse power. C. A. Holt, Jr., city engr.

Road Oil — Fresno, Calif. — Apr. 6, by D. M. Barnwall, clk. Fresno Co., 100,000 bbls. road oil. C. P. Jensen, Cory Bldg., co. surv.

Brick Making Machinery — Cap-de-la-Madeline, Que. — R. Morrissette, consult. engr., Cap-de-la-Madeline, in market for machinery for making sand lime bricks.

Turbines, etc.—Frankford, Ont.—Kerry & Chace Ltd., engrs., Confederation Life Bldg., Toronto, taking bids two 1,300 hp. turbines, probably vertical type with electric generators, etc., here, for Canadian Paperboard Co. $100,000.

Asphalt, Road Oil, etc.—Toronto, Ont.—Mar. 31, by S. L. Squires, deputy minister highways, 110 University Ave., annual supply of asphalt, road oil, calcium chloride, tar, paint, crushed stone, cement, corrugated metal, concrete and vitr. tile, culvert pipe, wire cable, steel reinforcing, etc. $300,000-$500,000. G. Hogarth, ch. engr.

Dredge—Vancouver, B. C.—L. A. Bonner & Co., Room 718, Vancouver Blk., in market for bucket type gold dredge.

BIDS RECEIVED

Asphaltic Cement, etc.—St. George, N. Y.—J. A Lynch, pres. Richmond Boro, Boro Hall, Mar. 18, from Standard Oil Co., 26 Bway., New York City, 365 tons asphaltic cement $9,037; from Barrett Co., 17 Battery Pl., New York City, 90,000 gal. bituminous road surfacing material $9,720; from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, 235,000 gal. asphaltic macadam binder $36,425, 950 cu.yd. concrete and paving sand $2,280; from New York Trap Rock Co., 101 Park Ave., New York City, 3,900 cu.yd. 1.5 in. and 100 cu.yd. ¾ in. broken stone and 100 cu.yd. screenings $13,038; from Hygrade Builders Supply Co., 6th St. and 2nd Ave., Brooklyn, 1,800 cu.yd. 1.5 in. and 300 cu.yd. ¾ in. broken stone, and 450 cu.yd. screenings $8,084, 1,275 cu.yd. pea gravel $3,085, 1,625 cu.yd. pea gravel $4,436; from J. Johnson Sons, 455 Bway., West New Brighton, 4,200 cu. yd. 1.5 in. and 150 cu.yd. ¾ in. broken stone and 150 cu.yd. screenings $18,430, 2,100 cu.yd. trap rock screenings $7,455; from Liberty Mason Supply Co., 1925 pea gravel in Dist. 3 $7,604.

Paving Blocks and Cement—Milwaukee, Wis.—D. W. Hoan, chn. Central Bd. Purchases, Mar. 17, from Western Lime & Cement Co., 68 Wisconsin St., 20,000 bbls. Portland cement delivered at job as ordered at $3 per bbl., 10,000 bbls. Portland cement delivered to Metropolitan Sewerage Comn. on Jones Island, $2.75 per bbl.; from E. G. Stocking, 111 West Washington St., Chicago, Ill., 14 cars (more or less) 3.5 in. rectangular creosoted wood paving blocks $2.07 per sq.yd. Noted Mar. 12.

Brick—Minneapolis, Minn.—F. S. Gram, city purch. agt., Mar. 12, 1,040,000 common brick, from Minneapolis Sand Lime Brick Co. 3400 Main St. N. E., $11 per M; 497,915 exterior face brick, from Streator Clay Mfg. Co., 6 North Michigan Ave., Chicago, Ill., $27.24 per M, f.o.b. Minneapolis or $34.75 per M delivered; 294,593 interior face brick, from Hydraulic Press Brick Co., 1250 Builders Exch., $42 per M; 15,000 fire brick, from Landers-Morrison-Christenson Co., 800 Builders Exch., $32.17 per M. Noted Mar. 5.

CONTRACTS AWARDED

Ties and Timber—New York, N. Y.—Bd. Transportation, 49 Lafayette St., ties and timber for constructing Rapid Transit R.R., to Robinson Lumber Co., 20 West 34th St., $13,639. Noted Mar. 19.

Patch Material, etc. — Towson, Md. — Comrs. Baltimore Co., Court House, 106,450 gal. patch material, f.o.b. plant, to Barrett Co., 36th St. and Grays Ferry, Phila., Pa. $14,371. Noted Feb. 26.

Asphaltic Cement, etc.—Detroit, Mich.—Dept. Purchases & Supplies, City Hall, 20,000 tons refined asphaltic cement, to Standard Oil Co., 910 South Michigan Ave., Chicago, Ill., $22.90 per ton in tank cars, and $26.90 per ton in packages; 30,000 cu.yd. bank run gravel, 15,000 cu.yd. to P. Koenig Coal Co., 1480 Gratiot Ave., $1.55, and 15,000 cu.yd. to United Fuel & Supply Co., Free Press Bldg., $1.60. Noted Feb. 26.

Paving Brick—Detroit, Mich.—Dept. Pub. Wks., City Hall, four hundred thousand 3 x 3.5 x 8.5 paving brick, f.o.b. cars Detroit, to Metropolitan Paving Brick Co., Renkert Bldg., Canton, O., $38.50 per M.

Rails—Detroit, Mich.—Dept. Street Rys., St. Jean and Shoemaker Aves., to Lorain Steel Co., Frick Bldg., Pittsburgh, Pa., 1,000 tons 80 lb. A. S. C. E. rail $45.65 per ton, short lengths $43,65; 500 tons 7 in. 104 lb. girder rail $71, short lengths $69; 3,000 pairs joint plates $3.18 per cwt., 1,200 pairs joint plates for girded rail $4.76 per cwt.

Asphalt, etc.—London, Ont.—Supplies required for year incl. asphalt in tank cars, road oil and liquid asphalt to Imperial Oil Co., 56 Church St., Toronto; iron castings, to Wells Motors Ltd., London; tile, to W. Copp, 85 York St., London; concrete pipe, to Independent Pipe Co., Woodstock.

Pipe—Nelson, B. C.—W. E. Wasson, city clk., 650 tons c.i. pipe, to Gordon & Belvea Ltd., 157 Alexander St., Vancouver, $49,689.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: April 17.

Bridge Construction

Dayton, Ohio.

Sealed proposals will be received at the office of the Department of Public Service of the City of Dayton, State of Ohio, until 12:00 o'clock noon, April 17, 1925, and then publicly opened, for the construction of a concrete bridge across the Great Miami River at Helena Street, to be known as the Island Park Bridge.

Said proposals should be endorsed "Proposal for Construction of the Island Park Bridge in the City of Dayton, Ohio."

Plans, specifications, general provisions and form of proposal, bond and contract for the work are on file in the office of the Director of Public Service, Dayton, Ohio, and may be there seen.

Copies of plans and specifications may be obtained from the Director of Public Service, Dayton, Ohio, upon written application therefor, and the deposit of $15.00, which sum will be refunded upon return of the plans in good condition.

All proposals must be made upon blank forms attached to the specifications. Each bid is to be presented under sealed cover, endorsed as above provided, and filed with the Director of Public Service, Dayton, Ohio, and shall be accompanied by a certified check made payable to the City of Dayton, Ohio, for $2,500.00, or a proposal bond for $5,000.00 signed by a responsible surety company. No bid shall be considered unless such check or bond is enclosed therewith.

A good and sufficient surety company bond will be required for the faithful performance of the construction contract in a sum equal to the full amount of the contract price. Such bond shall be approved as to form by the City Attorney, and as to its sufficiency by the Director of Public Service.

The Director of Public Service reserves the right to reject any or all bids.

GEORGE F. BAKER,
Director of Public Service.

O. R. HARTZELL,
Secy. Dept. of Public Service.

Bids: April 13

Route No. 4, Section No. 28A

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the following:

ROUTE NO. 4, SECTION NO. 28A

Construction of Route No. 4, Section No. 28A, Waretown-Forked River Cutoff, in the County of Ocean. Estimated 23,766 cu.yd. of excavation unclassified; 10,278 cu.yd. Borrow; 33,177 sq.yd. reinforced concrete pavement; 16,249 sq.yd. gravel surface.

Bids for the above will be received at the offices of the State Highway Commission, 9th floor, Broad Street Bank Building, Trenton, New Jersey, on Monday, April 13, 1925, at twelve o'clock noon (12.00 Noon), Standard Time, and will be opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on a deposit of Ten Dollars ($10.00) for each project upon application to the State Highway Department, Room No. 901, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated in the 1924 specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and name and section of the route on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey, for not less than ten per cent (10%) of the amount of the bid, provided that the said certificate check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal forms and special addressed envelopes will be furnished on application. Bids not enclosed in special addressed envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of the said specifications, conditioned for the faithful performance of the provision of the contract and specifications. Each bidder must also accompany his bid with a Statement of Equipment properly filled out.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

Bids: April 27.

Dredging

Leesburg, Fla.

Sealed proposals on blank forms furnished by the City and addressed to the "Mayor and Commissioners, Leesburg, Florida," will be received until 12 o'clock, noon, April 27, 1925, at Leesburg, Florida, for furnishing all equipment and labor and doing the following work:

Approximately 46,500 cu.yds. sand and muck fill.

Each bid shall be accompanied by a certified check for not less than two hundred and fifty dollars ($250.00), made payable to the City Manager.

Plans and specifications can be seen at the office of the City Manager, and bidding blanks may be obtained from him.

The right is reserved to reject any or all bids.

DR. W. A. MACKENZIE,
Mayor Commissioner.
D. E. BIVINS,
City Manager.
W. E. HARKNESS,
City Clerk.
S. H. JAUDON ENGINEERING CO.,
Engineers.
Leesburg, Florida.

Bids: April 3.

Incinerators

Durham, N. C.

Sealed bids, so marked, will be received by the Purchasing Agent of the City of Durham, N. C. until 2 p.m. April 3, 1925, at which time they will be opened and publicly read at the City Hall, for the construction, ready for use, of three incinerators for the destruction of rubbish and garbage.

Complete detailed plans and specifications together with manufacturers guaranty, price for complete structure and date of completion must be filed before the time of opening bids. Each incinerator must have a guaranteed capacity of two tons per hour. Further detailed requirements for the structures can be obtained from H. W. Kueffner, Director of Public Works.

The City reserves the right to reject any or all bids or to accept such bids as appear in its judgment for the best interests of the City.

A. T. CRUTCHFIELD,
City Purchasing Agent.

Bids: April 23

Bridge Over Wappoo Creek Between St. Andrews Parish and James Island

SANITARY & DRAINAGE COMMISSION OF CHARLESTON COUNTY
Charleston, S. C.

Bids will be received until 12:00 o'clock noon, Thursday, April 23rd, 1925, at offices of the Sanitary and Drainage Commission, No. 39 Broad St., Charleston, S. C., for the construction of steel and concrete bridge over Wappoo Creek between St. Andrews Parish and James Island.

APPROXIMATE QUANTITIES AS FOLLOWS:

Contract No. 1. Steel Superstructure—
220,570 lb. of Steel Superstructure complete in place including painting.
403 Lineal Ft. metal railing.
Necessary machinery and castings complete in place for hand operation.
Necessary machinery and castings complete in place for electric operation.

Contract No. 2. Substructure and Approaches—
5,700 Linear Ft. treated timber piles. (Fenders).
960 Linear Ft. untreated timber piles.
3,085 Linear Ft. concrete piles.
997 Cu.Yd. Class AA concrete.
86,600 Lb. of deformed steel Bars for reinforcement.
53 MBM Treated timber as per plan.
464 Lineal Ft. of concrete railing.
402 Sq.Yd. of Wood Block paving.
460 Sq.Yd. of Sheet Asphalt Pavement.
Removal of Old Bridge. (lump sum).
248 Lb. of Iron Castings (Drains).

Proposals Contract No. 1 must be accompanied by a certified check for six hundred ($600.00) dollars made payable to the Chairman of the Sanitary and Drainage Commission of Charleston County.

Proposals Contract No. 2 must be accompanied by a certified check for fifteen hundred ($1500.00) dollars made payable to the Chairman of the Sanitary and Drainage Commission of Charleston County.

Bid Bonds will not be accepted. Plans, Specifications and Proposal forms are on file at the offices of the Sanitary and Drainage Commission of Charleston County, No. 39 Broad Street, Charleston, S. C. Plans will be furnished at the above address upon request, accompanied by a check for $5.00, and no refunds will be made for plans returned.

Bids: March 30.

Paving

Central Falls, R. I.

Sealed Proposals for laying about 7,000 square yards of granite block pavement on a concrete base on Broad Street, Central Falls, R. I., will be received at the office of the Board of Street, Water and Sewer Commissioners, City Hall, Central Falls, R. I., until 1:30 p.m., March 30th, 1925.

Plans, specifications and form of contract can be seen at the office of the City Engineer.

A certified check for $500.00 must accompany each bid and a surety bond for about one-third of the amount of the contract will be required of the successful bidder.

The Board of Street, Water and Sewer Commissioners reserve the right to reject any and all bids or to accept the proposal they deem to be for the best interest of the City.

JOHN W. WALKER,
ARNOLD ALLENSON,
WALDO H. FISH,
Board of Street, Water and Sewer Commissioners.
Central Falls, R. I.

CONSTRUCTION NEWS

Engineering News-Record, April 2, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Power development, Carillon, Que., preparing plans for hydro-electric development on St. Lawrence River, $50,000,000.

Power develpoment, Arnprior, Ont., surveys being made for hydro-electric plant, $5,000,000.

Club, Chicago, Ill., Midland Club have had sketches made, $4,000,000.

Theatre, Detroit, Mich., Detroit Metropolitan Corporation having plans prepared, $4,000,000.

Sewers, Los Angeles, Calif., Metropolitan Sewer District 3. Plan bond election for 21 miles of sewers, $3,540,000.

Water supply, Waterbury, Conn., State Comm. authorizes bond issue to extend water system, $3,200,000.

Hotel and recreation, Detroit, Mich., Detroit, Hockey Club having plans prepared, $2,000,000.

Store, Seattle, Wash., Bon Marché having plans prepared, $2,000,000.

Dam, Cotulla, Tex., La Salle Co. plans earth and reinforced-concrete dam, $1,800,000.

Dam, Stockton, Calif., plans have been made, $1,500,000.

Bids Wanted on Big Jobs

Clubhouse, Brooklyn, N. Y., B.P.O.E. 22, takes bids about May 1, $4,500,000.

Factory and sales, Chicago, Illinois, Hibbard, Spencer-Bartlet Co.,$4,000,000.

Sewers, Kansas City, Mo., takes bids about May 1 for Gooseneck Storm Sewer, $2,500,000; about July 1 for Blue River Sanitary Intercepting Sewers, $3,000,000.

Capitol, Lincoln, Nebr., (2nd Section) $2,500,000.

Hospital, Chicago, Ill., University of Chicago, $2,000,000.

Theatre, San Antonio, Tex. W. J. Lytle taking bids, $1,500,000.

Large Contracts Let During Week

Water Works, Kansas City, Mo., awarded in fourteen separate contracts, $6,748,557.

Tunnel, Oakland, Calif., Supervs. Alameda Co. to A. J. Crocker Co., $3,882,958.

Apartment, Philadelphia, Pa., W. Webster to Barras Constr. Co., $2,500,000.

Waterworks

PROPOSED WORK

Mass., Medford (Boston P. O.) — See "Sewers."

Mass., North Attleboro—Voted $95,000 bonds extending waterworks at Adamsdale.

Conn., Waterbury—State Com. Finance authorize city to issue $3,200,000 bonds for further extension of Shebang Project for water supply. R. A. Cairns, city engr.

N. J., Hammonton—Plans extending mains in Main Rd., Packard and Peach Sts. $40,000. A. Elvins, mayor. Engineer not selected.

Pa., Spangler—Northern Cambria Waterworks Co. plans impounding dam on Schirtf's Run to store 75 m.g., erecting pumping equipment and several miles pipeline. $50,000. J. A. McClain, pres.

D. C., Wash. — Dist. Comrs. plan mains and sewers in various streets. $956,800.

North Carolina—See "Streets and Roads."

N. C., Selma — Sold $17,500 bonds, extending and improving present water system.

Kan., Aurora—Election Apr. 6, $27,000 bonds, new waterworks. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, Mo., engrs. Noted Mar. 19.

Kan., Concordia — Making preliminary plans waterworks extensions, incl. wells, distribution mains, etc. $35,000. C. A. Haskins, 822 Finance Bldg., Kansas City, Mo., engr.

Kan., Norcatur—Voted $40,000 bonds for waterworks. C. A. Haskins, 822 Finance Bldg., Kansas City, Mo., engr. Noted Feb. 12.

Kan., Seneca—Making preliminary plans waterworks, incl. pumping equipment, distribution mains, etc. $20,000. Engineer not selected. J. T. Campbell, city clk.

Neb., Bennet — Plans pump, well, hydrants, valves and c.i. mains in various streets. $18,000. Hollister Eng. Co., 517 Bankers Life Bldg., Lincoln, engrs.

N. D., Carrington—Plans to purchase one 300 gal. centrifugal pump and one 25 hp. engine. L. P. Wolff, 903 Globe Bldg., St. Paul, engr. Noted Oct. 16.

Mo., Glendale (Kirkwood P. O.) — Defeated $60,000 bonds waterworks. A. H. Beard, Title Guaranty Bldg., St. Louis, engr. Noted Feb. 27.

Tex., Amarillo—See "Unclassified."

Tex., Big Spring—Election Apr. 7, $30,000 bonds waterworks extension. J. W. Middleton, city secy. Engineer not announced.

Tex., Lometa—Voted $42,000 bonds waterworks, incl. mains, wells, pumping equipment, etc. Address A. E. McLean, mayor. Noted Feb. 19.

Tex., Nordheim — Making plans waterworks plant. $20,000. Engineer not announced.

Tex., Robert Lee—Election soon $35,000 bonds waterworks, mains, pumping equipment, etc. Engineer not selected.

Tex., San Antonio — Election Apr. 18, $6,000,000 bonds purchasing present waterworks system and $500,000 improving same. I. Ewig, city engr. Noted Mar. 5.

Okla., Blanchard—Election Apr. 7, $35,000 bonds new waterworks, incl. new well, pump, elevated tank, pump house, mains, valves, etc. Gantt Baker Co., 1116 West Main St., Oklahoma City, engrs.

Okla., Collinsville—Election Apr. 7, $125,000 bonds, new mains in connection to Spavinaw pipe line system of Tulsa, and new pumping equipment and repairs to present plant, 45,000 ft. 12 in. c.i. pipe, etc. Holway Eng. Co., Wright Bldg., Tulsa, engrs.

Okla., Idabel — Soon takes bids waterworks improvements, incl. new motor driven pumps, oil engine, transmission line and 250 meters. $23,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 5.

Okla., Prague — Voted $22,000 bonds, new well with air lift equipment, new air compressor, concrete reservoir, and 1 mi. new mains. Holway Eng. Co., Wright Bldg., Tulsa, engrs.

Okla., Tulsa—Election Apr. 14, $500,000 bonds for waterworks, $150,000 used for main extensions and balance to complete Spavinaw Project. C. Schultz, City Hall, engr. Noted Jan. 15.

N. M., Portales — Making plans waterworks and sewers in various streets. To exceed $15,000. F. E. Devlin, 614 Bitting Bldg., Wichita, Kan., engr.

Wash., Centralia—Plans 5 m.g. reservoir. $71,000. C. B. Shain, special engr.

Calif., Hemet—Election Apr. 17, $120,000 bonds, wells, pumps, pipe line and reservoir, etc. Noted Feb. 19.

Calif., San Jacinto—Plans election bonds to exceed $25,000 to finance water and sewerage systems.

Ont., Leamington — Plans waterworks addition, new intake, pumphouse, 2 pumps, etc. $25,000. R. M. Selkirk, town clk. Engineer not selected.

Ont., Mimico—Making plans new pumping station, steel intake, brick and steel pumphouse, 3 stage electric centrifugal pump, filters, chlorinators, etc. $125,000. James, Proctor & Redfern, 35 Toronto St., Toronto, engrs.

Ont., Woodstock—Water & Light Comn. plans 5 mi. 12 or 15 in. probably wooden pipe line from the springs to city. $100,000. A. G. Archibald, supt.

Ont., Port Arthur—Plans pumping station, and centrifugal electric 3 stage pumps. $15,000. J. Antonisen, city engr.

BIDS DESIRED

Mass., Boston—Apr. 9, by Dept. Pub. Wks., City Hall, laying and relaying mains in Foster St., Kirkwood and Radnor Rds. in Brighton; Wabash Ave. in Dorchester; and Willowdean Ave., Weld and Wren Sts. in West Roxbury. $15,000. J. A. Rourke, comr.

Mass., Framingham—Apr. 14, by Commissioners Pub. Wks., about 3,800 lin.ft. 8 in. and 3,300 lin.ft. 6 in. c.i. water mains, etc., in various streets. R. W. Bird, comr.

N. Y., Locust Valley—Apr. 11, by Bd. Water Comrs. at Matinecock Neighborhood House, deep well and turbine. S. B. Bowne, Mineola, engr.; adv. E. N.-R. Apr. 2.

N. Y., Oyster Bay — Apr. 11, by Bd. Water Comrs. Oyster Bay Water Dist., constructing test wells for determining nature of sub-surface conditions, etc. S. B. Bowne, Mineola, engr.; adv. E. N.-R. Apr. 2.

Pa., Phila.—Apr. 7, by Dept. Pub. Wks., Bureau Water, Contr. 745 parts for water meters; Contr. 746 seventy-three 8- to 12-in. high pressure stop valves, 37 fire hydrants; Contr. 747 pipe fittings for high pressure fire system; Contr. 749 two complete connections, etc.; Contr. 750 machine tools; Contr. 751 miscellaneous piping for Torresdale Sta.

Md., Towson—Apr. 27, by Comrs. Baltimore Co., mains in Colgate and Essex, Contracts 2-W and 3-W. A. E. Walden, ch. engr.; adv. E. N.-R. Apr. 2.

N. C., Hendersonville—See "Streets and Roads."

La., Bossier City—Apr. 8, by Town Council, 6,000 ft. 8 in. and 280 ft. 6 in. c.i. pipe, 8,000 lb. c.i. specials, pumping station, pumps, motors, 75,000 gal. tank on 125 ft. tower, etc. E. T. Archer & Co., Shreveport, engrs.

Wis., Manawa—Apr. 15, by J. C. Kinsman, village clk., 9,230 ft. 6 and 8 in. c.i. mains, 5 tons castings, two 500 g.p.m. centrifugal pumps, 180 ft. direct connected to 220 v., 3 phase, 60 cycle, 1,750 r.p.m., etc. McMahon & Clark Eng. Co., Menasha, engrs.

Tex., Pilot Point — City, c/o F. W. Hayden, mayor and E. W. Garnett, engr., Denton, taking bids settling tank for waterworks. $25,000.

Calif., Beverly Hills—City in market for 1,150 ft. 12 in. steel mains in Chalmers Dr. B. J. Firminger, city clk.

Calif., Monrovia—Buena Vista Domestic Water Co., E. W. Bushnell, secy., taking bids 19,740 ft. 4- to 8-in. 14 gauge riveted steel pipe with fittings, etc., in various streets. O. A. Gerlich, 209 1st Natl. Bank Bldg., engr.

BIDS RECEIVED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Mar. 27, mains in Aves. P, T and X, Rockaway Parkway, Montauk Ave., Crescent, West, Marsh, 89th, East 1st, 2nd, 28th, 36th and 95th Sts., here, from Grippo Contg. Co., 85 Webster

Waterworks (Continued)

Ave., Long Island City, $6,670. Noted Mar. 19.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Mar. 25, setting valves and hydrants and connecting mains in Ave. A, 1st, 2nd and 3rd Aves., etc., from Wataga Contg. Co., 308 Lenox Ave., $24,500. Noted Mar. 19.

N. Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Mar. 25, mains in Clinton, Forrest, Henderson and Westervelt Aves., here, from Wataga Contg. Co., 308 Lenox Ave., New York City, $112,900. Noted Mar. 19.

Md., Baltimore—Bd. Awards, galvanized wrought iron pipe, couplings and malleable iron fittings from Southern Supply Co., 315 North Calvert St., $12,195, c.i. pipe and fittings, from R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $284,024, for Water Dept..

Minn., Robbinsdale—City, 32,150 lin.ft. 8- to 12-in. c.i. pipe, and 25 hydrants and 12 valves, from Phelps-Drake Co., 623 Metropolitan Life Bldg., Minneapolis. $50,889.

CONTRACTS AWARDED

Mass., Boston—Supply Dept., to E. L. LeBaron Fdry. Co., Brockton, 150,000 lb. Class "C" sidewalk castings $0.545 per lb., 200,000 lb. Class "D" frames and cover castings, $0.028 per lb.; to Gibby Fdry. Co., East Boston, composition castings, 16,000 lb. No. 1 $0.2525 per lb., 33,000 lb. No. 2 $0.21375 per lb., and 8,000 lb. No. 3 $0.1775 per lb., all foregoing for Pub. Wks. Dept., Water Serv. Noted Mar. 5.

Mass., Boston — City Supply Dept., to Davis Fdry. Co., Lawrence, 480,000 lb. B castings $0.055 per lb., 100,000 lb. 9 x 9 flange frame castings $0.035 per lb., for Pub. Wks. Dept., Water Serv. Noted Feb. 12.

Pa., Phila. — Dept. Pub. Wks., Bureau Water, Contr. 743, to M. and J. B. McHugh, 892 North Markoe St., $34,205; Contr. 744, Item 1, to P. and A. J. Ellis, 5724 North Markoe St., $37,890, Items 2 and 3, to Chapman Valve Mfg. Co., 1011 Filbert St., $10,395. Noted Mar. 26.

O., Piqua—H. A. Lines, dir. Pub. Serv., water works to Green and Sawyer, Lima, buildings $154,996, carbonation equipment $5,900, heating and plumbing $8,740, lighting and power $10,390, bridges $17,400; to Shartle Machine Co., 369 Dublin Ave., Columbus, pumps $17,236; Pittsburgh-Des Moines Co., Curry Bldg., Pittsburgh, Pa., stand pipe $27,880. Noted Feb. 12.

Minn., St. Paul—H. W. Austin, city purch. agt., to Michigan Valve & Fdry. Co., Amer. Trust Bldg., Detroit, Mich., one 90 in. circular butterfly valve $3,220, one 90 in. circular sluice gate $2,500, two 60 in. circular sluice gates $1,290 each, one 48 in. circular sluice gate $900, two 48 x 60 in. rectangular sluice gates $1,150 each; to Chapman Valve Mfg. Co., Indian Orchard, Mass., one 60 in. circular butterfly valve $1,395; to Pittsburgh-Des Moines Steel Co., Tuttle and 9th Sts., Des Moines, Ia., one 300,000 gal. steel reservoir on concrete foundation at McCarron's Station, $8,680; to W. Bros. Boiler & Mfg. Co., Nicollet Island, Minneapolis, 800 lin.ft. 60 in. O. D. steel pipe, 5 special bends, $12,209; to United Lead Co. 102 Fairfield Ave., 75 coils of ¾ in. extra strong lead pipe. Noted Mar. 19 and 26.

Kan., Hutchinson—Approximately 2 mi. distribution mains, etc., to United Water, Gas & Electric Co., Hutchinson, Kan. Engrs. est. $15,000. Noted Sept. 4.

Mo., Kansas City—A. J. Stewart, purch. agt., Contrs. 1 and 2, tunnels, to Smith Bros., Inc., 2701 Coombs St., Dallas, Tex., $1,319,750 and $825,575 respectively; Contr. 5, East Bottoms pumping station and reservoir, to Carrothers Constr. Co., 310 Walsix Bldg., $683,220; Contr. 6, conduit, to Biggs Boiler Wks., Bank and Williams Sts., Akron, O., $524,205; Contr. 11, tanks, to J. Black Masonry & Contg. Co., 517 Federal Reserve Bank Bldg., Omaha, Neb., $1,663,540; Contrs. 8, 9 and 10, motors, switchboards and substation, to Westinghouse Electric & Mfg. Co., Orear-Leslie Bldg., $149,750; Contr. 12, secondary pumping plant and filtration plant, to Chanute Constr. Co., Chanute, Kan., $1,260,749; Contr. 13, intake on Missouri River, low lift pumping station, etc., to List & Weatherly, 416 Railway Exch. Bldg., $222,350; Contr. 14, valves to complete work under preceding contracts, to Kennedy Valve Co., 95 John St., New York City, $99,418. Noted Mar. 26.

Sewers

PROPOSED WORK

Mass., Gloucester—State and City plan new sewerage system in portions of city and surroundings. $331,000. X. N. Goodnough, Metropolitan Dist. Co., 1 Ashburton Pl., Boston, engr.

Mass., Medford (Boston P. O.) — Making plans improving and extending sewerage and water systems. $80,000. C. Connock, city engr.

Conn., Middletown — Making preliminary plans sewer in Durant Dist. J. M. Lusey, 74 Pearl St., chn. Durant Sewer Dist. $70,000. Address City Engineer.

North Carolina — See "Streets and Roads."

Tenn., Winchester — Election in June $100,000 bonds, sewerage system. J. Shasteen, mayor.

Mich., Detroit — Dept. Pub. Wks. made plans 9,518 ft. 12- to 20-in. vitr. crock in Lateral 4254, 259 ft. 20 in. vitr. crock in Lateral 4287; 2,318 ft. 12- to 20-in. vitr. in Lateral 4301; 1,984 ft. 12- to 24-in. and 118 ft. 3 ft. 2 ring brick section in Lateral 4315; 2,928 ft. 12- to 24-in. vitr. in Lateral 4317; 692 ft. 12- to 15-in. vitr. in Lateral 4327; 5,130 ft. 12- to 20-in. in Lateral 4230; 458 ft. 15- to 20-in. vitr. in Lateral 4339. G. Jerome, city engr.

Mich., Mt. Clemens — Macomb Co. made plans 6 mi. 42 in. concrete or vitr. crock sewer in Clair Ave., Buckingham and High Sts. $100,000. E. D. Miller, Mt. Clemons, Co. drain comr.

Ill., Peoria—Plans sanitary and surface drainage all territory north of Columbia Terrace and west of North St. to city limits, known as North Peoria Sewer Dist. 5. $790,000. Pearce, Greeley & Hansen, 6 North Michigan Blvd., Chicago, sanitary engrs. J. J. Jeffries, city engr.

Ill., Venice — Making preliminary plans sanitary sewerage system, pumping plant, etc. $200,000 up. Shepard & Morgan, Edwardsville, engrs.

Ill., Waukegan — North Shore Sanitary Dist., J. Oliver, pres., Highland Park, making preliminary plans sewage disposal plant, incl. Imhoff tanks, sludge beds, chlorinating tank and outfall sewer. $75,000. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.

Ia., Centerville — Making plans sewer improvements, incl. disposal plant. $35,000. M. G. Hall Eng. Co., Centerville, engrs.

Mo., Concordia — Making preliminary plans, surveys, etc., sanitary sewers in various streets. E. T. Archer & Co., New England Bldg., Kansas City, engrs.

Mo., Kansas City — Making plans and takes bids about May 1, 9,000 ft. Gooseneck Storm Sewer, $2,500,000; about June 1, 36,000 ft. North Sect. and about July 1, 28,000 ft. South Sect. Blue River Sanitary Intercepting Sewers, $3,000,000. Black & Veatch, 700 Mutual Bldg., engrs.

Mo., Lees Summit—Plans new election $78,000 bonds complete sanitary sewerage system, etc. E. T. Archer & Co., New England Bank Bldg., Kansas City, engrs. Noted Dec. 19.

Mo., Steele — Making plans sewers in various streets. $25,000. C. A. Moore, Independent Bldg., Joplin, engr.

Tex., Clarendon—Election Apr. 7, $121,000 bonds sanitary sewers in various streets. F. E. Devlin, 614 Bitting Bldg., Wichita, Kan., engr. Noted Mar. 12.

Tex., San Antonio — City Council appropriated $100,000 for constructing 1 mi. cover over sanitary sewer ditch. I. Ewig, city engr.

Okla., Prague — Defeated $25,000 bonds, new sanitary sewers for entire city and disposal plant, and project dropped. Holway Eng. Co., Wright Bldg., Tulsa. Noted Mar. 12.

N. M., Portales—See "Waterworks."

Wash., Yakima—Plans sewerage system to serve northwest section city. $110,000.

Calif., Long Beach — Made plans storm sewer in Moline Ave., 16,227 ft. 10- to 15-in. cement, 8,245 ft. 18- to 24-in., 3,924 ft. 27- to 42-in. and 7,916 ft. 48- to 57-in. rein.-con. pipe, 90 manholes, 163 catch basins, 1 rein.-con. bulkhead, etc. $305,650. C. F. Smith, city sanitary engr.

Calif., Los Angeles—Metropolitan Sewer Dist. 3, Los Angeles Co. (consisting city of Long Beach), election May 5, $3,540,000 bonds, for 21 mi. trunk sewers. A. K. Warren, Hall of Records Bldg., co. drainage engr.

Calif., Los Angeles—Made plans Sect. 2, Arroyo de la Sacatela, storm drainage system. $1,350,000. L. W. Armstrong, City Hall, engr.

Calif., Palo Alto—Made plans 19,237 ft. 12- to 34-in. concrete and 20,000 ft. 6 and 8 in. vitr. storm sewers, etc., in various streets. J. F. Byxbee, Jr., city engr.

Calif., San Francisco—Made plans sewers in 30th Ave. and Kirkham St., 670 ft. 3 ft. 6 in. x 5 ft. 3 in., and 2,483 ft. 3 ft. x 4 ft. x 6 in. rein.-con. pipe, etc. To exceed $50,000. M. M. O'Shaughnessy, city engr.

Calif., San Jacinto—See "Waterworks."

Ont., Brantford—Plans 6,000 ft. 12 in. up vitr. clay storm sewer in Gladstone, Erie and Allenby Sts. $34,000. F. P. Adams, city engr.

Ont., Ft. William—Plans 11,000 ft. 8 in. up sanitary and storm sewers in east end of city. $40,000. Will probably install by day labor. C. B. Symes, City Hall, engr.

Ont., Markham—Making plans probably 5,000 ft. 8 in. up vitr. clay sewers in all streets, and rein.-con. disposal plant. $50,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

Mass., Boston — Apr. 9, by Dept. Pub. Wks., Boston, sewerage works in Falco St., in West Roxbury; Apr. 10, in Glenrose St., Brighton; Apr. 13, in Harmon St., Dorchester. $25,000. J. A. Rourke, comr.

Mass., Needham—Apr. 3, by Town Clk., Town Hall, vitr. salt-glazed sewer pipe, 2,000 ft. 5 in., 9,000 ft. 6 in., and 1,700 ft. 8 in., all 2 ft. lengths, 11,500 ft. 8 in., 3,200 ft. 12 in., 4,550 ft. 15 in., 4,600 ft. 18 in., and 1,730 ft. 20 in., all 3 ft. lengths. Barbour & Dixon, Tremont Bldg., Boston, engr.

N. Y., Brooklyn—Apr. 8, by J. A. Guider, boro pres., Boro Hall, sewer in Ave. L, Linden, Troy, Schenectady, Belmont, Drew, Pitkin, Forbell, Glenmore and 7th Aves., East 38th, 39th, 45th, 46th, 6th, 48th, 71st and 29th Sts.

N. Y., New York — See "Streets and Roads."

N. Y., St. George—Apr. 6, by J. A. Lynch, pres. Richmond Boro., Boro Hall, sanitary sewers in Old Town Rd., Centre and Woodside Aves.

Pa., Phila.—Apr. 7, by Dept. Pub. Wks., Bureau Engineering, main sewer in Sanger St., Castor, Champlost and Loretto Aves., branch sewers in McKean and Wyncote Aves., Webb, Wallace, Victoria, Valetta, 3rd, Thompson, Sepviva, Salmon, Naomi, N. Mercer, Janney, Gaul, 52nd, 4th, Durham, Durard, Diamond, Bigler, Bath, Balfour, Ardleigh and Almond Sts.

Md., Baltimore—Apr. 8, by Bd. Awards, Tiffany Run Interceptor Sewer, Sect. 3, and other sewers in Dists. H-2, and 33, Sanitary Contr. 233, incl. 1,406 ft. 33 x 42 in. brick and concrete sewer, 15 lin.ft. 15 in., 351 ft. 8 in. and 133 ft. 6 in. terra cotta pipe, etc. B. L. Crozier, City Hall, highway engr.

N. C., Hendersonville—See "Streets and Roads."

O., Akron—Apr. 9, by W. F. Peters, dir. Pub. Serv., 330 ft. 15- to 24-in. vitr. clay and 3,320 ft. 30- to 60-in. brick trunk sewer in Gorge Blvd. Dist. $108,600. J. E. Root, Delaware Bldg., engr.

O., Cleveland—Apr. 8, by Comrs. Cuyahoga Co., 12,200 ft. 8- to 20-in. tile sewers in Impvt. 304, Sewer Dist. 3. To exceed $25,000. F. R. Williams, Court House, engr.

Mich., Grand Rapids—Apr. 22, by Director Pub. Serv., City Hall, constructing Cold Brook Creek Drain, Contr. F-6. F. Locke, city mgr.; adv. E. N.-R. Apr. 2.

Tex., Bryan—Taking bids 5,000 ft. 8 in. and 10,000 ft. 6 in. sanitary sewers in various streets. $20,000. T. Haswell, mayor.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly in 163rd St., pres. Queens Boro, Queens Subway Bldg., temporary basin inlets from H. J. Mullins Contg. Co. Jamaica Ave. and 144th St., Jamaica, $225; sewers in Bway. from F. J. Kelly Co., Inc., 186 Joralemon St., Brooklyn, A $47,764, B $40,197; sewers in 40th Rd., from C. Pettracca, $1,585; sewers in Winthrop Ave. from J. Gallo, 203 Division St., Brooklyn, B $40,974. Noted Mar. 26.

N. Y., New York — H. Bruckner, pres. Bronx Boro., Mar. 26, sewers in White Plains Rd., from A. Gregoria & Co., 1129 8th Ave. $6,730; in Edison and Hammersley Aves., from Knight & DeMicco, 448 East Tremont Ave., $4,470 and $4,355 respectively; reconstructing sewer in Exterior St. from Fox Reynolds Co., 81 East 125th St., $129,440. Noted Mar. 19.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Mar. 30, temporary sanitary sewers in New Dorp, Oakwood and vicinity, from Hammen Constr. Co., Perth Amboy, N. J., (A) $338,703 (B) $346,508. Noted Mar. 26.

Pa., Phila. — Dept. Pub. Wks., Bureau Eng., Mar. 23, from F. T. Buckins, 4050 Kensington Ave., sewers in Cheltenham Ave. $40,068, Erie Ave. $18,773; from J. Lombardi, 601 Lincoln St., Summerdale Ave. $46,430, Packer Ave. $305,283; from W. McIntyre, 6811 North Franklin St., removing old sewers and constructing new in 13th, Camac, Iseminger, 12th and Marvine Sts. $45,571; from J. E. Robinson, 5231 Colburne St., test borings $3,626.

Md., Baltimore—Bd. Awards, storm and sanitary sewers in Dists. G-14 and J-1,

Sewers (Continued)

Storm Water Contr. 81, from D. C. McAleer, Phoenix Bldg., $161,959. Noted Mar. 19.

O., Cleveland—Sewers in Bader Ave. and West 35th St., from D. M. Zullo, 706 The Arcade, $10,206 and $13,048 respectively; Germaine and Biddulph Aves., from W. B. Smith, 706 The Arcade, $4,160 and $4,994 respectively; Flowerdale Ave., from Yayhya Bros., 3196 West 25th St., $9,733. Work involves 9,670 ft. 12- to 24-in. tile pipe.

Wis., Prairie du Chien—W. Beuthin, city clk., 14,898 ft. 8- to 15-in. vitr. sewers in various streets, from Gjellefald & Chapman Constr. Co., Forest City, Ia., $22,326. Noted Mar. 5.

CONTRACTS AWARDED

Pa., Phila. — Dept. Pub. Wks., to N. Cassetti Real Estate Trust Bldg., branch sewers in Boyer St. $13,085; to Higgins & Reilly, 604 Real Estate Trust Bldg., Chester St. $8,642, Kingley St. $12,437; to A. J. Henderson, Washington Lane and Reading R.R., Crittenden St. $9,783, Nippen St. $5,489, Wadsworth St. $8,945; to A. De Sando & Son, 3906 North 5th St. Ellet St. $24,877; to A. Bonitatibus, 300 Mt. Pleasant Ave., Haworth St. $4,811; to W. McIntyre, 6811 North Franklin St., Pine St. $4,746; to H. A. Hamilton, Green and Chelton Sts., Sheldon St. $9,065, Wagner St. $4,888; to F. T. Buckins, Kensington and Deal Sts., 7th St. $9,860, Woodcrest St. $13,425; to E. F. Bennis, 825 East Washington Lane, 67th St. $12,094; to McCoal Constr. Co., 5033 Duffield St., Tulip St. $2,092, Weikel St. $2,216.

Md., Baltimore—Bd. Awards, City Hall, 11,500 ft. main and lateral sewers in Sanitary Dist. G-13, Contr. 219, to Adams & Marino Co., 216 St. Paul St., $86,653. Noted Mar. 26.

Tex., Dallas—H. B. Winston, 1305 M St., sewers and waterworks in 72 acre tract to be developed into high class residential district, to E. Campbell, 2409 Pennsylvania Ave., $31,000.

Tex., Houston — Storm sewer in West Gray Ave., to A. E. Quay Constr. Co., 4717 Jack St., $16,225, engrs. est. $20,000; in West Dallas Ave., to C. H. Horton, 2202 Clay St., $33,138, engrs. est. $35,000. Noted Mar. 12.

Tex., Magnolia Park—Storm and sanitary sewers in various streets, to Sherman-Youman Constr. Co., 529 West Bldg., Houston, $307,220 and $46,793 respectively. Engrs. est. $300,000 and $45,000 respectively. Noted Mar. 19.

Wyo., Cody—Sanitary sewers in Dists. 2 and 3, to J. E. Crum, Casper, $31,506.

Colo., Denver—For South Side Special Sanitary Sewer 8, 1 mi. long, ¼ mi. wide, to J. E. Young, Tramway Bldg., $44,684. Engrs. est. $42,760. Noted Feb. 19.

Calif., Corona — Disposal plant, incl. Imhoff tanks, filters, etc., to R. F. Ware, 2146 East 38th St., Los Angeles, $100,922. Engrs. est. to exceed $112,200.

Calif., Los Angeles—Supervs. Los Angeles Co. Drainage Impvt. Dist. 11, 218,000 cu.yd. excav., 47,400 cu.yd. concrete, 4,750,000 lb. steel, 30,540 ft. 6- to 10-in. vitr. conconcrete pipe, 22,430 ft. 24- to 72-in. rein.-con. pipe, 6,400 cu.yd. sand and gravel, 40,000 ft. treated timber piling, 3,500 ft. 18 in. vitr. or concrete connecting pipe, etc., to T. Kelly & Sons, Hill Street Bldg., 1,473,994. Engrs. est. $1,800,000. Noted Mar. 26.

Calif., Los Angeles — See "Streets and Roads."

Ont., Toronto—York Twp. 8,000 ft. 36 in. concrete outfall sewer, to Nelson River Constr. Co., Bank of Hamilton Bldg., $83,300. Engrs. est. $85,000.

Waste Disposal

PROPOSED WORK

Wis., Shorewood (Milwaukee P. O.)—Plans garbage incinerator. $14,000. H. A. Schmitt, Village Hall, engr.

BIDS DESIRED

Pa., Port Vue (mail McKeesport)—Boro taking bids 30 ton incinerator. $28,000. L. Savage, Peoples Bank Bldg., McKeesport, engr.

Bridges

PROPOSED WORK

Md., Baltimore—Making plans concrete and steel bridge on Belair Rd. and Herring Run. $40,000. B. L. Crozier, City Hall, highways engr.

North Carolina — State Hy. Dept., Raleigh, plans rein.-con. bridges over Chowan River, on State Project 109-B, between Edenton and Windsor, Bertie and Rowan Counties. $600,000. C. M. Upham, highway engr.

North Carolina — State Legislature authorized Yadkin Co. (Yadkinville) and Surrey Co. (Dobson) to issue $30,000 bonds for bridge across Yadkin River at Rockford; Davidson Co. (Lexington) and Davie Co. (Mocksville) $200,000 bonds for bridge across Yadkin River.

North Carolina—See "Streets and Roads."

Ia., Marshalltown — See "Streets and Roads."

Kan., Kansas City—Making plans 500 ft. steel and concrete lower deck to Intercity viaduct from 3rd St. and Armstrong Ave. to connect with proposed paved road. $100,000. R. L. McAlpine, City Hall, engr.

Texas—Wichita Co., Wichita Falls and Oklahoma State Hy. Dept., Oklahoma City, plan steel and concrete bridge across Red River, on State Highway 2. $250,000. Address B. D. Sartin, judge Wichita Co., Wichita Falls.

Tex., Gatesville — See "Streets and Roads."

Tex., Washington—Brenham Co. making plans 2 spans 240 ft., rein.-con. and steel bridge across Brazos River on State Highway 20, between Chappel Hill and Hempstead. $400,000. State Aid appropriates $250,000 toward cost. G. A. Bracher, Brenham, co. engr.

California — State Hy. Comn., Sacramento, rejected bids Feb. 24, one 30 ft. and three 60 ft. span, rein.-con. girder bridge over Ventura River, Ventura Co. R. M. Morton, highway engr. Noted Feb. 12.

Ont., Toronto — Plans replacing 100 ft. highway bridge, 66 ft., probably rein.-con. and concrete, on Winchester St. $26,000. R. C. Harris, city engr.

BIDS DESIRED

Mass., Grafton—Apr. 10, by Town, J. Hickey, chn. Bd. Selectmen, rein.-con. bridge over Blackstone River, at Depot St., Farnumsville Dist. $25,000. Private plans.

Conn., New Haven—Apr. 12, by W. V. Barry, city bridge engr., City Hall, 3 span 214 ft. rein.-con. bridge replacing one at Willow St. $70,000. Noted Oct. 23.

S. C., Charleston — Apr. 23, at offices Sanitary & Drainage Comn. of Charleston Co., 39 Broad St., steel and concrete bridge over Wappoo Creek between St. Andrews Parish and James Island.

S. C., Kingstree — See "Streets and Roads."

Ohio—Apr. 10, by Dept. Highways & Pub. Wks., Columbus, bridge on Sect. "Yorkville," in Belmont Co., $18,161; concrete bridge on Sect. "H-Bridges" Woodfield-Sisterville Rd., Monroe Co., $44,101; temporary bridges on Sect. "Twin Cr. Bridges," National Rd., Preble Co. $4,427. A. V. Donaheys, div. highways.

Kan., Girard—Apr. 7, by Clerk Crawford Co., 8 rein.-con. and steel bridges in various parts of county. $30,000. C. M. Cooper, Girard, engr.

California—Apr. 13, by State Hy., Comn., Sacramento, three 46 ft. and two 21 ft. rein.-con. span bridge on concrete piers and pile bents, 30 ft., over San Juan Creek, Orange Co., also eight 54 ft., span rein.-con. bridge on concrete piers, 40 ft. roadway, two 6 ft. sidewalks, etc., over San Gabriel River, Los Angeles Co. R. M. Morton, Forum Bldg., highway engr. Noted Mar. 26.

BIDS RECEIVED

North Carolina—State Hy. Comn., Raleigh, Mar. 24, (**S. P. means State Project**), rein.-con. bridges and culverts on S. P. 824, Cleveland Co., from E. A. Wood & Co., Andrews, $69,772; on S. P. 394, Robeson Co., from Kiker & Yount, Reidsville, $77,973; on S. P. 487-A, Wake Co., from Roanoke Bridge & Iron Wks., Roanoke, Va., $77,471.

CONTRACTS AWARDED

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, three arch rein.-con. bridge and approaches over Charles River, at Cambridge St., Boston, and River St., Cambridge, to L. S. White, 25 Huntington Ave., Boston, $238,518. Noted Mar. 19.

Conn., New Haven—Director Pub. Wks., City Hall, rein.-con. bridge over Marris Creek, at South End Rd., to A. Di Marco, 61 Main St., Plainville, $24,019. Engrs. est. $25,000. Noted Mar. 12.

Pa., Phila.—See "Streets and Roads."

S. C., Charleston — Sanitary & Drainage Comn., 39 Broad St., viaduct over Atlantic Coast Line and Southern Ry. tracks at five Mile, near here, 2,374 cu.yd. concrete, 350,700 lbs. reinforcing, etc., to A. R. McMurray, 507 East Scott St., Knoxville, Tenn. $79,241. Noted Feb. 12.

Alabama—State Hy. Dept., Montgomery, steel superstructure for 3 span 855 ft. bridge over Alabama River, in Montgomery and Elmore Counties, to Riley & Bailey, International Life Bldg., St. Louis, Mo., $129,745. Noted Feb. 19.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 36, Sect. 17-B, Pike Co., to C. T. Laird, Pittsfield, $32,478. Noted Dec. 11.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 9, Sect. 21-B, McLean Co., to J. T. Pinkstaff, Lawrenceville, $11,810; bridge on Route 9, Sect. 19-B, Ford Co., to G. H. Goodlink, Lawrenceville, $15,117. Noted Feb. 26.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to Huff & Gaines, Logan, Ia., 5 rein.-con. slab bridges, incl. six 10 ft., two 9 ft., nine 12 ft. and one 25 ft. spans, Route 9, Sect. 46-B, Vermilion Co., $18,576; to W. C. Johnson, Belleville, 5 rein.-con. girder bridges, incl. three 40 ft., one 30 ft. and one 50 ft. spans, also one 20 ft. span rein.-con. slab bridge, 170 ft. rein.-con. substructure and twenty-five 50 ft. span girder approaches, Route 12, Sect. 1-B, Lawrence Co., $130,000; to St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo., 170 ft. span steel superstructure, Route 12, Sect. 1-C, Lawrence Co., $13,690, one 73 ft. and two 82 ft. span steel superstructures, Route 7, Sect. F-2, Will Co. $10,558, two 168 ft. steel span superstructures, Route 5, Sect. 15-C, Winnebago Co. $36,692, two 150 ft. steel span superstructure, Route 9, Sect. 39-C, Fulton Co. $20,960, one 110 ft. steel superstructure, Route 29, Sect. U-1, Bureau Co. $8,528; to M. M. McDonald, Lincoln, 2 rein.-con. slab bridges, incl. two 20 ft. and one 14 ft. spans, Route 27, Sect. 15-B, Carroll Co., $8,015; to F. Kaney, Forreston, two 45 ft. span, rein.-con. girder bridge, Route 27, Sect. 16-B, Ogle Co., $13,511; to M. R. Devo, East Peoria, one 50 ft. span rein.-con. girder bridge, one 140 ft. span rein.-con. substructure, also three 50 ft. and two 35 ft. girder approach spans, Route 8, Sect. 44-B, Knox Co., $41,162; to Central States Bridge Co., eight 140 ft. steel spans superstructures, Route 8, Sect. 44-C, Knox Co., $11,009; to C. Barth, Marion, one 31 ft. and two 39 ft. span rein.-con. girder bridges, Route 1, Sect. 37-V, Johnson Co., $8,447; to Dees Bros., Oblong, two 50 ft. span rein.-con. girder bridge, Route 33, Sect. 7-B, Effingham Co., $17,446; to Hertken & Sayer, St. Louis, Mo., two 150 ft. span rein.-con. substructures, and ten 50 ft. rein.-con. girder approach spans, Route 9, Sect. 39-D, Fulton Co., $57,770; to A. C. Jensen, 1311 Western Blvd., Racine, Wis., two 63.5 ft. rein.-con. span girder bridge, Route 19, Sect. 86-D, Cook Co., $40,339; to A. T. Munsen, Marion, five 30 ft. rein.-con. span bridge, one 120 ft. rein.-con. substructure, and five 30 ft. rein.-con. girder approach spans, Route 29, Sect. U, Bureau Co., $62,837; to Joliet Bridge & Constr. Co., Joliet, four 45 ft. rein.-con. girder spans, Route 22, Sect. 15-B, Will Co., $32,962; to Hartman-Clark Bros., Dwight, one 30 ft., 40 ft. and one 60 ft. rein.-con. span girder bridge, Route 45, Sect. 1-B, LaSalle Co., $16,866; to Stresenreuter Bros., 3020 South Halsted St., Chicago, one 6 ft. culvert and seven 55 ft. plate girder spans, Route 46, Sect. A-2, Cook Co., $96,116. Noted Feb. 26.

Ia., Ft. Madison—Atchison, Topeka & Santa Fe R.R. Co., Railway Exch., Chicago, Ill., substructure for steel and concrete bridge across Mississippi River, here, to Union Bridge & Constr. Co., 903 Sharp Bldg., Kansas City, Mo., $1,500,000.

Ia., Sac City—See "Streets and Roads."

Neb., North Platte — State Hy. Dept., Lincoln, 7 new bridges, here, to General Constr. Co., 722 Peters Trust Bldg., Omaha, $58,580. Engrs. est. $65,000.

Neb., Wakefield—See "Excavation, Drainage, Irrigation, Levees."

Missouri—State Hy. Dept., Jefferson City, one 40 ft. rein.-con. deck girder span, etc. over stream and one 51 ft. and four 35 ft. rein.-con. deck girder spans, etc. over Missouri Pacific R.R. tracks, Johnson Co., to A. A. Davis, Gr. Exch., Oklahoma City, Okla., $6,616 and $12,987 respectively; two 80 ft. steel truss spans and four 30 ft. I-beam spans, etc. over west fork Grand River, Worth Co., to Lamereaux Bros., Omaha, Neb., $26,685; three 100 ft. steel truss spans, two 40 ft. rein.-con. deck girder spans, etc. over Salt River, Shelby Co., to Vincennes Bridge Co., Vincennes, Ind., $32,708; two 12 ft. rein.-con. slab spans, etc. over stream, Marion Co., to C. H. Atkinson Paving Co., Watertown, S. D., $3,115; one 25 ft. rein.-con. deck girder span, etc. over Winn Creek, Macon Co., $5,320; one 60 ft. rein.-con. arch span, spandrill filled over Long Branch, Caldwell Co., to Land Constr. Co., St. Joseph, $6,017; one 60 ft. steel truss span, etc. over Culvre River, Audrain Co., to H. A. Worman, Perryville, $10,578. Noted Mar. 12 under "Streets & Roads."

California—State Hy. Comn., Sacramento, one 200 ft. fixed steel, one 124 ft. steel bascule and eight 26 ft. rein.-con. girder approach span bridge on concrete piers and bents over San Joaquin River, near Mossdale, San Joaquin Co., to McKay-Schruth

Bridges (Continued)

Eng. Co., Railway Bldg., Los Angeles, $193,650. Engrs. est. $209,792. Noted Feb. 26.

Calif., Antler (Bayles P. O.)—State Hy. Comn., Sacramento, one 36 ft., two 42 ft. and two 20 ft. span rein.-con. girder bridge across Salt Creek about 6 mi. south of here, Shasta Co., to N. Lovelace, Visalia, $17,232. Noted Feb. 26 under "California."

Dams

PROPOSED WORK

Tex., Cotulla—La Salle Co. plans earth and rein.-con. dam to irrigate 65,280 acres, incl. 180 mi. control and 40 mi. check levees, 510 mi. cross levels, cutting 176 mi. cinders, also running 42 mi. traverse lines, 5 mi. base levels and 22 mi. cross levels at dam site A and B, 18 mi. canal line south and 16 mi. north of river. $1,800,000. A. P. Rollings, engr. in charge.

Calif., El Modena—J. T. Carpenter Water co., et al, plans hydraulic earth fill dam with clay core on Santiago Creek. $600,000.

Calif., Stockton—Made plans gravity and arch type flood control dam, below San Andreas, 1,300 ft. long on crest, 146 ft. above stream bed, arch section 70 ft. thick at base, 104,000 cu.yd. concrete. $1,500,000. W. B. Hogan, city engr. Noted Feb. 5.

Que., Chicoutimi—See "Buildings-Industrial."

BIDS DESIRED

Mo., Cameron—Apr. 9, by M. Wiley, clk. Bd. Pub. Wks., spillway and raising earth dam, incl. clearing and grubbing 0.65 acres, 13,600 cu.yd. earth and 650 cu.yd. shale excav., 136 cu.yd. concrete, 1,000 sq.yd. rock slab pavement top of dam, 354 sq.yd. grouted and 997 sq.yd. plain riprap, etc. C. A. Haskins, 517 Finance Bldg., Kansas City, engr.

Railways

PROPOSED WORK

Ohio—Cleveland R.R. Co., c/o G. L. Radcliffe, genl. mgr., Hanna Bldg., plans double tracking St. Clair Ave. between London and Bliss Rds. $296,137, Euclid Ave. between Ivanhoe Rd. and East Ave. $343,625, and State Rd. between Cypress Ave. and Lee Rd., $397,639; new tracks on Cedar Rd. between Lee and Warrensville Centre Rds. $218,996, West 117th St. between Clifton Blvd. and Thrush Ave. $323,698, Wade Park Ave. between East 66th St. and Superior Ave. $101,000, and 13 loops $376,000. J. W. Clark, engr.

Missouri—Wabash Ry. Co., Exch. Bldg., St. Louis, making plans grading and laying tracks on 109 acres, also new round house, coal storage yards, machine shops, icing plant, docks and office building, in North Kansas City. $200,000. R. H. Howard, Railway Exch. Bldg., St. Louis, ch. engr.

California — Southern Pacific R.R., 65 Market St., San Francisco, plans approximately 10 mi. railroad extension in Meridian between Reclamation Dists. 1660 and 70. $500,000. G. W. Bosche, ch. engr.

Quebec—Montreal Tramways Co., Craig St. W., Montreal, plans to extend city lines 54 mi. $2,000,000 or more. A. Hutchison, supt.

BIDS DESIRED

New Jersey—May 7, by North Jersey Dist. Water Supply Comn., 20 Clinton St., Newark, relocating Erie R.R. at Wanaque Reservoir. A. H. Pratt, ch. engr.; adv. E. N.-R. Apr. 2.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Ind., Muncie—Made preliminary plans dredging 2 mi. White River, and straightening course of same, etc., 608,000 cu.yd. excav. $400,000. J. Watson, City Bldg., engr.

Kan., Galena—Citizens Com., c/o I. C. Perkins, chn., making preliminary plans changing course of Short Creek to drain mines in Galena Field, etc. $60,000 up. W. Ricksecker, City Hall, engr.

Tex., Cotulla—See "Dam."

Tex., Victoria—Victoria Co. and City making surveys levee on west side Guadalupe River, 5 mi. north of here, to irrigate several thousand acres. $100,000 or more. Address County Engineer. J. L. Du Pree, city atty.

Nev., Fallon—Truckee—Carson Irrigation Dist. voted $245,000 bonds, constructing approximately 50 mi. drainage canals.

Calif., Tranquillity—Tranquillity Irrigation Dist. plans election, $150,000 bonds, drilling and equipping wells. R. C. McFarland, engr. for district.

BIDS DESIRED

Wyo., Buffalo—Apr. 7, by Comrs. Johnson Co., T. J. Smith, clk., 9,000 yd. excav. and 600 yd. filling in approaches to new Powder River bridge.

Calif., Merced—Merced Irrigation Dist., H. P. Sargent, secy., in market for 2,500 ft. 20 in. concrete pipe.

CONTRACTS AWARDED

Ia., Pocahontas—Pocahontas Co., 14,041 ft. tile, to Humboldt Gravel & Tile Co., Humboldt, $10,240; and labor of installation, etc., to P. Reiman, Rockwell, $4,268. Noted Feb. 26.

Neb., Wakefield — North Logan D.D., 3,506,000 cu.yd. excav. in Sects. 1, 2 and 3, also South Logan D.D., 270,000 cu.yd. excav. in Sects. 1 and 2, to Callahan-Walker Constr. Co., 1106 First Natl. Bank Bldg., Omaha, 0.07 per cu.yd., total $44,390; 4 bridges, 2 in each above districts, to Standard Bridge Co., 1302 City Natl. Bank Bldg., Omaha, $27,453. Noted Mar. 5.

Calif., Los Angeles—See "Sewers."

Streets and Roads

PROPOSED WORK

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, plans highway from Wells St., West Roxbury, through unimproved land and existing thoroughfares to Beacon St., Newton. $530,000. H. I. Harriman, Metropolitan Planning Bd., chn.

Mass., Andover — Bd. Selectmen plans highway and bridge improvements in various sections. $59,000 appropriation. Engineer not selected.

Mass., Boston—Dept. Pub. Wks. plans reconstructing and widening North and South Market Sts. $25,000. J. A. Rourke, comr.

Mass., Brighton (Boston P. O.)—Dept. Pub. Wks., City Hall, Boston, plans probably bituminous macadam resurfacing Western Ave. $60,000. J. A. Rourke, comr.

Mass., Cambridge (Boston P. O.)—Dept. Pub. Wks. plans rebuilding and repairing Bway., Middlesex and Rindge Aves., Hampshire, Jay, Kinnaird Sts. To exceed $25,000. Engineer not selected.

Mass., Montague — Bd. Selectmen plans new roads and highway improvements. $26,000 appropriated. Engineer not selected.

R. I., Providence—Plans probably concrete paving Tower Hill Rd. $400,000. Address State Engineer, State House.

N. J., Belmar—Soon takes bids 12,000 tons gravel for city streets. C. W. Birdsall, Belmar, city engr.

N. J., Belmar—Plans concrete paving ½ mi. F St. $25,000. C. W. Birdsall, city engr.

N. J., New Brunswick—Plans improving Lee, Ward, Remsen, Laurel Duke, Fulton, Robinson and Handy Sts. $184,450. A. Atkinson, City Hall, engr.

N. J., Somerville—Plans concrete paving Division St. $40,000. W. J. Berryman, city engr.

N. J., Toms River—Bd. Freeholders Ocean Co., plans oiling 13 mi. gravel road. J. M. Abbott, Toms River, engr.

Md., Baltimore — Making plans sheet asphalt paving Gwynns Falls Parkway $45,000, North Ave. from Harford Ave. to Washington St. $100,000, North Ave. from John to McMechon Sts. $30,000, Milton Ave. $90,000, Belvidere Ave. $40,000, Pennsylvania Ave. $40,000, Pennsylvania Ave. $40,000, and Fulton Ave., Bloomingdale Rd., Monroe St. and north drive of Edmondsson Ave. S. C. Rowland, 214 East Lexington St., acting chn. paving comn.

W. Va., Cairo—Voted $30,000 bonds, paving various streets. J. E. Overton, clk. City Council.

W. Va., Glenville—Gilmer Co. Glenville Dist. voted $250,000 bonds improving River Rd. F. Lewis, Glenville, engr.

W. Va., Philippi — Barbour Co. voted $450,000 bonds grading, concrete and bituminous macadam surfacing about 11 mi. roads in Pleasants, Philippi and Cove Dists., 18 ft. W. S. Downs, Morgantown, engr. Noted Mar. 19.

North Carolina—State Legislature authorized Halifax Co. to issue $730,000 bonds hardsurfacing roads in Scotland Neck, Roseneath and Palmyra Twps.; Madison Co. $120,000, Stanley Co. $100,000, Alamance Co. $700,000, Columbus Co. $55,000, Ashe and Watauga Counties $100,000 for constructing roads; Brevard Co. $100,000, improving streets and sidewalks; Forest City Co. $250,000, street improvement, sewerage, waterworks and electric lights; Hamlet Co. $40,000 for sidewalks; and Carteret Co. $700,000 road and bridge construction.

North Carolina—State Hy. Comn., Raleigh, plans grading, etc., 5 mi. State Project 116, Chowan Co., $35,000, and 12 mi. State Project 109, Bertie Co., $110,000; grading and concrete or asphaltic paving 2.5 mi. State Project 114, Rowan Co., $75,000. C. M. Upham, highway engr.

N. C., Danbury—Comrs. Stokes Co. authorized $120,000 bonds road improvements. S. P. Venable, Vade Mecum, chn. bd. county comrs.

N. C., Plymouth—State Legislature authorized city to issue $300,000 bonds street improvements.

N. C., Wilson—Wilson Co. voted $1,250,000 bonds for road construction.

Miss., Ellisville—Jones Co. election Apr. 3, $200,000 bonds, improving 8 mi. Ellisville-Laurel Rd.

La., New Orleans—City and Highway Comn., Baton Rouge, plan paving Claiborne Ave. State will appropriate $200,000 during 1925, $200,000 in 1926 and $200,000 in 1927 toward cost. Noted Dec. 18.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 13 mi. Selmer-Adamsville Rd., McNairy Co. J. G. Creveling, highway comr.

Tenn., Nashville—Plans widening and rock asphalt on macadam surfacing 8th Ave. from Church to Broad Sts. To exceed $25,000. W. W. Southgate, city engr.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids in spring grading, curbing, laying walks and vitr. brick paving 2,160 sq.yd. Clearview Ave., $18,000, 1,150 sq.yd. Willow St., $9,000; grading, laying walks and cindering 300 cu.yd. 6th Ave., $6,300 and 550 cu.yd. Wall St., $5,600. E. A. Kemmler, Delaware Bldg., engr.

O., Akron — Summit Co. takes bids in spring macadam paving 2 mi. Rex Hill-Uniontown Rd., in Greene Twp., 16 ft. $50,000. R. E. Williams, Akron, co. engr.

O., Canton—Bd. Control soon takes bids widening and asphalt surfacing ½ mi. 4th St. N. W., 38 ft. $25,000-$30,000. W. E. Sarver, City Hall, engr.

O., Canton—Stark Co. plans improving 4 mi. Canton-Lisbon Rd., 16 ft. $100,000-$125,000. A. M. Wise, Canton, co. engr.

O., Canton — Stark Co., plans probably brick paving 2.5 mi. Trump Rd., 16 ft. $60,000-$75,000. A. M. Wise, Court House, engr.

O., Canton — Stark Co. takes bids in spring improving 1.5 mi. Swamp Rd. $30,000. A. M. Wise, Canton, co. engr.

O., Cincinnati—Hamilton Co. plans improving 2.692 mi. Cincinnati-West Union Rd., 32,597 sq.yd. concrete paving and 18,126 cu.yd. grading, $117,485, or 32,597 sq.yd. bituminous macadam paving and 10,921 cu.yd. grading, $119,595. E. A. Gast, Court House, engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections and paving 1,817 ft. alley west of Garfield Ave. and High St., alley north Long and Grove Sts., and Second Alley north Oak St., 20 ft., brick $14,617, concrete $12,807; 1,602 ft. Swayne and Catherine Sts., 24 ft., brick $31,752, asphalt $26,480; 799 ft. alley north Woodruff Ave., 15.5 ft., brick $4,872, concrete $4,294; 148 ft. Pearl St., 15 ft., brick $871, concrete $770; 205 ft. 5th St., 20 and 30 ft., brick $2,490, concrete $2,207; 7,503 ft. Mound St., 46 ft., brick $97,650, asphalt $79,086; 664 ft. Carrie Ave., 15 and 20 ft., concrete $4,906, brick $5,448. R. H. Simpson, city engr.

O., Columbus — Making plans grading, laying necessary water mains and sewer connections and paving 330 ft. alley north of 2nd Ave., 15.42 ft. brick $2,206, concrete $1,945; 1,750 ft. alley north 2nd Ave., and alleys west of Pregon St., Harrison and Neil Aves., 20 ft., brick $14,318, concrete $12,632; 3,110 ft. Wilson Ave., 30 ft., brick $70,982, asphalt $55,731; 509 ft. alley west Avondale Ave., 16 ft., brick $2,351, concrete $2,936; 363 ft. Elmwood Ave., 18 ft., brick $2,917, concrete $2,589. R. H. Simpson, city engr.

O., Lisbon—Columbiana Co., soon takes bids improving 4.5 mi. Salineville-Summitville-Hanoverton Rd., 16 ft., $150,000, and 3 mi. Salineville-Hanoverton-Summitville Rd., in Franklin Twp., $109,000; grading and hard surfacing 4.44 mi. Hanoverton-Salem Rd., $150,000, cost to be borne by County and Twps. L. C. Kirk, Lisbon, engr.

O., Youngstown—Takes bids in spring, widening east side of Market St. $100,000-$200,000. G. Turner, city engr.

Ind., Anderson — Plans concrete paving 1.5 mi. Noble and 31st Sts., $48,000; also 2 mi. West 22nd and Rocky St., $65,000. M. H. Downey, City Hall, engr.

Mich., Detroit—Making plans 3½ in. sheet asphalt on 8 in. concrete paving 2,420 sq.yd. Ilene Ave., Sect. 2 $12,100; 3,380 sq.yd. Georgia Ave. Sect. 4 $16,920; 950 sq.yd. Lucky Pl. $4,750; 8,660 sq.yd. LaSalle Ave. $43,330; 4,900 sq.yd. McLean Ave. $24,530; 4,740 sq.yd. Vinton Ave. $23,710; 2,780 sq.

Streets and Roads (Continued)

yd. Ford Ave. $13,920, 4,830 sq.yd. Margaret Ave. $24,140, 1,970 sq.yd. Georgia Ave., Sect. 3 $9,890; also one course concrete paving 31,906 sq.yd. 21 alleys $77,880. G. Jerome, city engr.

Mich., Detroit—Making plans 3½ in. sheet asphalt on 8 in. concrete paving 4,560 sq.yd. Puritan Ave. $22,440, 8,200 sq.yd. Rosemary Ave. $40,180, 10,680 sq.yd. Woodstock Dr. $53,220, 3,850 sq.yd. Golden Gate Ave. $19,230, 2,500 sq.yd. Penrose Ave. $12,310, 3,050 sq.yd. Stoepel Ave., Sect. 3 $15,230, 4,800 sq.yd. Tuxedo Ave. $23,900, 3,850 sq.yd. Orleans Ave. $19,220, 1,200 sq.yd. Fairfield Ave. $5,800, 7,170 sq.yd. Goddard Ave. $35,820, 1,980 sq.yd. Springle Ave. $9,850, 3,580 sq.yd. Wetherby Ave. $17,890, 1,410 sq.yd. Sallan Ave. $7,050, 2,530 sq.yd. Balmoral Ave. $12,600, 5,275 sq.yd. Otsego Ave. $26,360, 1,110 sq.yd. Trenton Ave. $5,500, 21,490 sq.yd. Dequindre St. Sect. 1, $107,320, 10,470 sq.yd. Dequindre St., Sect. 2, $52,200, 1,075 sq.yd. Southfield Rd. $5,350, 8,350 sq.yd. Wetherby Ave., Sect. 2, $41,670, 6,120 sq.yd. Philips Ave., Sect. 2, $30,600, 13,660 sq.yd. Nottingham Ave. $68,260, 6,230 sq.yd. Wayburn Ave. $31,110, 2,010 sq.yd. Girrardin Ave. $10,030, 4,670 sq.yd. Penrose Ave. $23,310, 7,820 sq.yd. Marx Ave. $39,150, 850 sq.yd. Maderis Ave. $4,200, 7,110 sq.yd. Lumpkin Ave. $35,460, 5,495 sq.yd. Klinger Ave. $27,360, and 5,360 sq.yd. Eldridge Ave. $26,790. G. Jerome, city, engr.

Ill., East St. Louis—Making preliminary plans natural lake asphalt on present brick resurfacing 26,000 sq.yd. Trendley and 4th Sts. $82,100. W. McK. Brown, City Hall, engr.

Ill., Galesburg—Knox Co. soon takes bids 600,000 to 1,000,000 gal. road oil on various streets. $36,000-$60,000.

Ill., Geneva—Making preliminary plans grading and concrete, vibrolithic or Warrenite surfacing Bennett St. $30,000.

Ill., Kewanee — Soon takes bids brick and concrete surfacing various streets. $130,000.

Ill., Peoria—Plans grading, rein.-con. surfacing, etc., ¾ mi. Prospect Ave. from East Willcox Ave. to Reservoir Blvd., 18 or 20 ft. $25,000. W. E. Emery, Court House, engr.

Wis., Hartford — W. Radtke, city clk., soon takes one and two course rein.-con. or vibrolithic concrete paving 15,000 sq.yd. Johnson and Wisconsin Sts. To exceed $25,000. J. Donohue Eng. Co., 608 North 8th St., Sheboygan, engrs. Noted Dec. 25.

Wis., Milwaukee — Milwaukee Co. plans concrete surfacing, etc. 1 11/24 mi. Lovers Lane, 2 mi. Ryan and Atwater Rds., and 9.25 mi. Wauwatosa, 77th, 8th and Layton Aves.; also eliminating 2,000 lin.ft. curve between Cudahy and South Milwaukee. $399,000. J. T. Donaghey, Madison, highway engr.

Wis., Wauwatosa—City, A. V. Bingham, city clk., plans grading and paving several streets, various types material considered. $105,000. J. E. Lowther, City Hall, engr.

Ia., Marshalltown—Marshall Co. making preliminary plans grading and gravel surfacing, bridging, etc., 4.5 mi. road from Laurel to Jasper Co. line Rds., 18 ft. D. C. Elder, Marshalltown, engr.

Ia., Mason City — Plans surfacing approximately 5 blocks various streets. $25,000. C. H. Stevens, city engr.

Ia., Mondamin — Making plans paving, curbing, etc., 12 blocks various streets. $42,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Ia., Sioux City — Making preliminary plans grading, curbing, hardsurfacing, etc., 21 blocks South Cornelia, McComb, Fairmount, Dodge, Irene, Marshall, 25th, West 3rd and West 2nd Sts. L. N. Hintgen, City Hall, engr.

Minn., Ortonville—Plans paving, curbing and tiling about 10 blocks 2nd St. $40,000. M. Chamberlin, Montevideo, engr

Minn., St. Cloud—Plans paving, curbing, etc., 32 blocks various streets. $110,000. A. W. Buckman, city clk.

Minn., St. Cloud—Stearns Co. plans grading 19 mi. and graveling 16 mi. various streets. $52,000. M. Cleveland, St. Cloud, engr.

Kan., Howard — Elk Co. making preliminary plans grading, etc., 9.02 mi. Federal Aid Project 217-A, 28 ft. C. B. Alexander, Howard, engr.

Kan., Independence — Montgomery Co. making preliminary plans grading, brick or concrete surfacing, etc., 5 mi. Federal Aid Project 285-A, 18 ft. H. K. Hibbard, Independence, engr.

Kan., Olathe—Johnson Co. takes bids in June, grading and brick on concrete or concrete surfacing 0.55 mi. Federal Aid Project 238-E, 18 and 32 ft. E. J. Terrill, Olathe, engr.

Kan., Wichita — Plans surfacing new street from Water to Francis Sts. $750,000. P. L. Brockway, City Bldg., engr.

Mo., Maryville—Soon takes bids grading, curbing and brick on concrete paving about 8,000 sq.yd. various streets. E. T. Archer & Co., New England Bldg., Kansas City, engrs. Noted Jan. 1.

Mo., St. Louis—Soon takes bids grading and concrete paving alleys in City Blocks 1266, 4391 B, 4502 N, 4503 N, 4534, 5081, 5090, 5091, 5238, 5251, 5319, 5329, 5347, 5403, 5679. $52,500. W. W. Horner, 300 City Hall, engr.

Mo., Webb City—Election Apr. 7, $40,000 bonds paving various streets.

Arkansas—State Hy. Dept., Little Rock, making plans improving 25 mi. Wynne-Harrisburg Rd., Cross and Poinsett Counties, $225,000; 5.9 mi. Nettleton-Lake City Rd., Craighead Co., $28,000; and 22 mi. Hope-Lewisville Rd., Hempstead and Lafayette Counties, $130,000. R. C. Limerick, Capitol Bldg., engr.

Ark., Little Rock—Soon takes bids grading, concrete curbing, guttering and gravel surfacing Paving Dist. 408. $35,000. G. D. Douglass, Southern Trust Bldg., engr. Noted Feb. 19.

Ark., Little Rock—Making preliminary plans grading, hard-surfacing, etc., 9 blocks Pulaski St. W. T. Field, Gazette Bldg., engr.

Ark., Little Rock—Making preliminary plans grading and Bates type concrete paving 11.5 mi. Mablevale Rd., 18 ft. G. D. Douglass, Southern Trust Bldg., engr.

Texas — State Hy. Com., Austin, making plans constructing 150 mi. Pecan Belt Highway beginning at Fredericksburg and running through Mason, Llano, San Saba, and Goldthwaite to Comanche. State Highway Engineer, Austin, engr.

Tex., Amarillo—See "Unclassified."

Tex., Ft. Worth—D. L. Lewis, city engr. taking bids grading, curbing, guttering and Uvalde rock asphalt, Warrenite bitulithic or 3 in. vertical fibre brick paving 4,000 yd. Wilshire St. from Warner Rd. to Forest Park Blvd. $25,000.

Tex., Gatesville — Coryell Co. making plans grading, gravel surfacing and bridging 3.18 mi. State Highway 9, 16 ft. $42,000. M. L. Minter, Gatesville, co. engr.

Tex., Kaufman—Kaufman Co. voted $65,000 bonds, roadwork in Rd. Dist. 4. C. Ashworth, co. judge. Noted Feb. 12.

Tex., Park Place (mail Houston)—Election soon $85,000 bonds paving various streets. Engineer not announced.

Tex., San Augustine — Voted $35,000 bonds sewerage system. W. A. French, city engr.

Tex., Waco — Election Apr. 14, $150,000 bonds permanent paving 7th St. from Washington to Austin Sts. V. G. Koch, city engr.

Okla., Duncan — Stephens Co. election Apr. 7, $245,000 bonds, hard surfacing about 20 mi. various highways. J. W. Scott, Duncan, judge.

Okla., Poteau—Plans grading and concrete surfacing 8,600 sq.yd. streets in Dist. 6. $32,000. J. E. Davis, Poteau, engr.

Calif., Ceres—Made plans improving 4th and 5th Sts., 75,000 sq.ft. 5 in. concrete paving, 11,000 lin.ft. concrete curb, etc. $26,500. D. P. Boothe, city engr.

Calif., Richmond — Plans election bonds to exceed $25,000 resurfacing various streets. E. A. Hoffman, city engr.

Calif., San Anselmo—Made plans improving San Francisco Blvd., etc., 72,500 sq.ft. 4 in. asphaltic concrete paving, 18,000 sq.ft. concrete shoulders, 4,000 lin.ft. concrete curb and gutter, etc. J. J. Jessup, city engr.

Calif., San Diego—Made plans improving Couts, Miller Sts., et al, 3,771 ft. cement curbing, 18,253 sq.ft. cement sidewalks, 10,817 sq.yd. 1.5 in. asphaltic concrete wearing surface on 2.5 in. asphaltic concrete. F. A. Rhodes, City Hall, engr.

Calif., San Francisco—State Bd. Harbor Comrs., Ferry Bldg., takes bids about Apr. 7, improving The Embarcadero, between Howard and Washington Sts., 145,000 sq.ft. 2 in. Topeka or Willite surface, 130,000 sq.ft. 6 in. base, 10,000 sq.ft. 2 in. Topeka surface and 3 in. binder in track areas, 15,000 sq.ft. basalt block paving relaid, etc. F. G. White, Ferry Bldg., engr.

Calif., Woodland—Plans opening and paving approximately 5 mi. various streets in southern section of city.

Que., St. Anne de Plaines—Plans paving 2 mi. road. $40,000. Engineer's name withheld.

Ontario — Dept. Provincial Highways, 110 University Ave., Toronto, plans 4½ mi. asphalt and concrete highway in Kent Co. $145,000. G. Hogarth, ch. engr.

Ont., Amherstburg—Plans asphalt resurfacing 10,000 sq.yd. Sandwich St. $25,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Guelph—Plans concrete or macadam paving 10,000 sq.yd. Paisley Rd., Division, Charles and Liverpool Sts. $35,000. H. S. Nicklin, city engr.

Ont., Ottawa—Carleton Co. plans to expend $144,500 on 9 mi. new macadam roads, and $35,000 on maintenance. Patterson & Byrne, 71½ Sparks St., engrs.

Ont., Ottawa — Ottawa Suburban Rds. Comn., plans 7-8 mi. macadam roads in suburbs. $165,000. A. K. Hay, Thistle Bldg., engr.

Ont., Sandwich—Essex Co. plans 16 mi. concrete and macadam roads. $400,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Stratford—Plans concrete curbing, guttering and bitulithic on concrete paving 5,800 sq.yd., Birmingham and Church Sts., $28,500. A. B. Manson, City Hall, engr.

Ont., Toronto—Soon takes bids opening and grading 1,970 ft. lane between Brock Ave. and Margueretta St., 14 ft. $27,500. R. C. Harris, city engr.

Ont., Toronto—North York Twp. voted $50,000 bonds for 10,000 sq.yd. macadam road, and repairs to existing roads, etc. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

Mass., Brookline (Boston P. O.) — Apr. 6, by Bd. Selectmen, repairing and constructing coal tar concrete sidewalks, driveways, street crossings, gutters and areas in town as required during year, also furnishing edgestones as required. Private plans.

Connecticut—Apr. 6, by J. A. McDonald, comr. State Hy. Dept., Hartford, waterbound macadam paving roads in Newton, Redding, Montville, Colchester, Hebron, East Lyme and Branford, North Branford and Kent; bituminous macadam paving in Windsor, Windsor Locks, East Granby, Suffield and Milford; rein.-con. paving in Westport; adv. E. N.-R. Apr. 2.

N. Y., Long Island City—Apr. 6, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sheet asphalt repaving Lincoln and Van Wyck Aves., Fresh Meadow Rd., Old South Rd. from City Line to Woodhaven Ave. and Old South Rd. from Long Island R.R. to Three Mile Mill Rd.

N. Y., Middletown — Apr. 17, by Bd. Estimate & Apportionment, at office city clerk, City Hall, paving various streets. J. A. Korschen, comr. Pub. Wks.; adv. E. N.-R. Apr. 2.

N. Y., New York—Apr. 7, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., paving Mosholu and Pelham Parkways, Hunt and Van Nest Aves.; grading Fteley Ave.; also sewers in Benedict and Edison Aves.

N. Y., St. George — Apr. 6, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Stuyvesant Pl., etc.

New Jersey — Apr. 13, by State Hy. Comn., Trenton, 33,177 sq.yd. rein.-con. and 16,249 sq.yd. gravel surfacing Route 4, Sect. 28A, Waretown-Forked River cutoff, Ocean Co. A. L. Grover, secy.; adv. E. N.-R. Apr. 2.

N. J., Neshanic—Apr. 17, by Hillsboro Twp. Com., C. Vancleef, clk., bituminous penetration macadamizing 3.459 mi. Neshanic-Clover Hill Rd. G. Davis, Whitehouse Sta., engr.

N. J., Newark — Apr. 6, at office T. L. Raymond, dir. Dept. Pub. Wks., City Hall, grading, curbing, flagging and 3½ in. sheet asphalt on 6 in. concrete paving, 950 sq.yd. Buffington St. $5,504, 2,510 sq.yd. Cameron Rd. $14,927, 2,500 sq.yd. Highland Ave. $22,209, 2,940 sq.yd. Lexington Ave. $18,710, 6,675 sq.yd. Lake St. $36,650, 1,590 sq.yd. Reeves Pl. $9,210, 1,330 sq.yd. 16th Ave. $8,742, 6,410 sq.yd. South Munn Ave. $37,258, 3,030 sq.yd. Unity Ave. $19,622, 3,170 sq.yd. Vassar Ave. $22,127, 1,240 sq.yd. Emerson Pl. $6,826, 4,560 sq.yd. Lenox St. $22,205, 3,800 sq.yd. Pamona Ave. $20,131, 680 sq.yd. Varsity Rd. $3,352, 3,125 sq.yd. North 11th St. $12,426, 1,510 sq.yd. Romaine Pl. $8,128, 2,466 sq.yd. 3rd St. $11,894; repaving on old concrete base 2,850 sq.yd. Vanderpool St. $15,546, 41,082 sq.yd. Broad St. from Bellville Ave. to Branford Pl. $191,305, and 40,737 sq.yd. Broad St. from Branford Pl. to Poinier St. $183,695; 3 in. sheet asphalt on 6 in. concrete paving 3,630 sq.yd. Commerce St. $12,905; granite block paving 1,450 sq.yd. Ave. B, $18,183.

N. J., Newton — Apr. 15, by Bd. Freeholders Sussex Co., bitumen, tar, cold patch, etc. N. B. Norman, clk.; adv. E. N.-R. Apr. 2.

N. J., Plainfield — Apr. 20, by Common Council, City Hall, sheet asphalt paving West 4th St. A. W. Vars, city engr.; adv. E. N.-R. Apr 2

Pa., Rankin—Apr. 9, by Boro Secretary, Municipal Bldg., natural asphalt or brick paving 2nd Ave. Contr. 1, 3rd Ave. Contr. 2, 4th Ave. Contr. 3, Rankin St. Contr. 4, 5th Ave. Contr. 5, Antisbury St. Contr. 6, and Hawkins St. Contr. 7, totaling 29,200 sq. yd. U. G. Duvall, boro. engr.

Pa., West View—Apr. 14, by Boro Council, grading, curbing and paving Bellevue Ave. from Glenmore to Highland Aves.; concrete sidewalks on Hawthorne Ave.

Streets and Roads (Continued)

from Center Ave. to Roy St. $25,000. Blum Weldin & Co., 417 Grant St., Pittsburgh, engrs. Noted Nov. 13.

Delaware—Apr. 22, by State Hy. Dept., Dover, amiesite or penetration macadam surfacing 0.25 mi. Contr. CN-19-A; concrete paving 1 mi. Contr. SC-40; also one 20 ton heavy duty trailer; adv. E. N.-R. Apr. 2.

Maryland — Apr. 14, by State Roads Comn., Baltimore, concrete paving in Carroll and Caroline Counties; sheet asphalt paving in Baltimore Co.; and graveling in Calvert Co. J. N. Mackall, chn.; adv. E. N.-R. Apr. 2.

Md., Baltimore—Apr. 7, by State Rds. Comn., 601 Garrett Bldg., sheet asphalt paving 0.47 mi. highway along North Ave., Contr. BC-49. J. N. Mackall, chn.; adv. E. N.-R. Apr. 2.

Md., Baltimore—Apr. 8, by Bd. Awards, grading and concrete paving alleys in Contr. 114. B. L. Crozier, City Hall, highways engr.

Md., Towson — Apr. 7, by Comrs. Baltimore Co., macadamizing 1 mi. Dogwood Rd. and 0.05 mi. Rolling Rd., 0.75 mi. Western Run Rd., concrete paving Hydes and Manor Rds., sheet asphalt paving Leeds and 5th Aves. S. A. Green, road engr.

Virginia—Apr. 14, by State Hy. Dept., Richmond, grading Route 23, Project S-139-A and B, incl. rein.-con. bridges over West Fork Little River and Dodds Creek; grading and bituminous macadam paving, etc., Route 36, Project F-167-E; and grading and concrete paving, etc., Route 34, Project F-180-B. C. S. Mullen, ch. engr.; adv. E. N.-R. Apr. 2.

W. Va., Huntington — Apr. 6, by Bd. City Comrs., grading, paving, etc., 4th St. east from 10th to 11th Aves., 4th St. from 11th to 12th Aves., 4th St. west from 9th to 10th Aves., two and one-half alley, 13th, A, 26th, 3rd and 7th Sts., East and Brandon Rds. A. B. Paupin, city engr.

N. C., Hendersonville — Apr. 9, asphalt or other hard surfacing, curbing, guttering, storm drains, sidewalks, water and sewer connections, 60,000 sq.yd. various streets. G. C. White, Durham, engr.

S. C., Kingstree—Apr. 7, at office Supervisor Williamsburg Co., grading, bridging and sand clay surfacing, etc., 21,376 cu.yd. State Route 411, State Project S-573-B. J. M. Martin, Florence, engr.

Miss., Sardis — Apr. 6, by Bd. Supervs. Panola Co., graveling, etc. 14 mi. road between Como and Crenshaw. J. A. Carter, clk.

Kentucky—Apr. 21, by State Hy. Dept., Frankfort, grading, etc., 3.816 mi. West Liberty-Saylersville Rd., 24 and 28 ft., Federal Aid Project 120-B, Morgan Co., and 2.121 mi. same road, 24 and 28 ft., Federal Aid Project 120-A, Magoffin Co.; also waterbound macadam, bank or river gravel surfacing 2.689 mi. Louisville-Paducah Rd., 16 ft., Federal Aid Project 51-B, Henderson Co. E. N. Todd, highway engr.

Ohio — Apr. 10, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 27.221 mi. roads in Allen, Belmont, Brown, Erie, Franklin, Hardin, Miami, Tuscarawas, Warren and Wood Counties. A. V. Donaheys, div. highways.

O., Cleveland—Apr. 8, by City, grading, paving and curbing Greenwood Lane, South Moreland Blvd., Wayside and Cliffview Rds., Hillview, Honeydale, St. Clair, Barberton, Dartmouth and Ferndale Aves., East 161st, East 168th, West 33rd, 61st, and 165th Sts. To exceed $200,000. R. Hoffman, City Hall, engr.

O., Cleveland Heights (Warrensville P. O.)—Apr. 9, by improving Fairmount Blvd. and Woodview Rd. $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Indiana — Apr. 14, by State Hy. Comn., Indianapolis, bituminous macadam paving 25 mi. and treating 50 mi. roads in Lawrence, Harrison, Floyd, Monroe, Clark, Adams, Allen, Wells, Henry, Delaware, Grant, Ohio and Dearborn Counties. $400,000. J. D. Williams, dir.

Ind., Angola—Apr. 6, by F. Hubell, engr., Angola, grading and graveling 14.172 ft. Wilkes Rd., 30 ft., for Steuben Co. $26,815.

Ind., Bloomfield — Apr. 7, by H. Schlott, Bloomfield, engr., grading and graveling 3 mi. Fitzpatrick Rd., 24 ft., for Greene Co. $26,000. Noted Mar. 26.

Ind., Bluffton—Apr. 6, by C. Devenport, engr., Bluffton, grading and graveling 2.8 mi. Herrmann Rd., 24 ft., for Wells Co. $25,368. Noted Mar. 26.

Ind., Crawfordsville—Apr. 6 by W. Harding, engr., Crawfordsville, concrete paving 19,120 sq.yd. Bowers Rd., 18 ft., for Montgomery Co. $62,000.

Ind., Decatur—Apr. 7, by D. Boch, engr., Decatur, grading and crushed stone surfacing 2.56 mi. Mills Rd., 24 ft., for Adams Co. $26,000.

Ind., Fowler — Apr. 6, by D. Heaton, engr., Fowler, grading and graveling 13,240 ft. Cook Rd., 30 ft., for Benton Co. $25,410.

Ind., Indianapolis — Apr. 10, by G. Schmidt, engr., Indianapolis, concrete surfacing 45,192 sq.yd. Tibbs Ave., $130,919 and 12,320 sq.yd. Allisonville Rd., $32,586; also concrete retaining wall, $15,664, for Marion Co.

Ind., Indianapolis — Apr. 14, by G. Schmidt, engr., Indianapolis, concrete paving 22,528 sq.yd. Lyndhurst Dr. Rd., $54,077, 23,936 sq.yd. Hardin Rd., $54,295; grading and graveling 3 mi. 52nd St. Rd., $25,600, for Marion Co.

Ind., Logansport—Apr. 7, by R. A. Hyman, engr., Logansport, grading and graveling 3 mi. Winn Rd., for Cass Co. $25,920.

Ind., Monticello—Apr. 7, by City Engineer, sheet asphalt paving 19,200 sq.yd. Bluff Rd. $47,023.

Ind., Newport—Apr. 6, by J. C. Ingram, engr., Newport, grading and graveling 3 mi. Hollingsworth Rd., 24 ft., for Vermillion Co. $25,550.

Ind., Newport—Apr. 7, by J. C. Ingram, engr., Newport, concrete paving 8,721 sq.yd. Shaw Rd., for Vermillion Co. $25,719.

Ind., Plymouth—Apr. 6, by J. Hildbrand, engr., Plymouth, grading and graveling 3 mi. Krouse Rd., 24 ft., for Marshall Co. $26,000. Noted Mar. 26.

Ind., Portland — Apr. 6, by H. Teeters, engr., Portland, grading and graveling 2.9 mi. Luers Rd., 24 ft., for Jasper Co. $25,800. Noted Mar. 26.

Ind., Williamsport — Apr. 6, by J. R. Gregory, engr., Williamsport, concrete paving 9,390 sq.yd. Judy Rd., for Warren Co. $26,634.

Mich., Coldwater—Apr. 7, by Bd. Comrs. Branch Co., Court House, gravel surfacing 3,331 mi., Matteson Lake Rd., Sherwood Twp., 2.201 mi. Fox School Rd. Ovid Twp., 1.504 mi. Matteson Lake Rd., Matteson Twp., 0.994 mi. Union City Rd., Batavia Twp. 1.41 mi. Union City Rd., Union Twp., and 2.464 mi. Coldwater Lake Rd. Coldwater Twp.

Mich., Grosse Pointe Farms (Deroit P. O.)—Apr. 7, by J. A. Kerby, village clk. one course 9 in. concrete paving 17,000 sq.yd. Grosse Pointe Blvd. $80,000.

Ill., Harvey—Apr. 6, by J. A. Alten, city secy., grading and concrete surfacing, etc., 31,000 sq.yd. various streets. A. W. Henry, City Hall, engr.

Wis., Beloit—Apr. 6, by Pub. Wks. Comn., 5 in. concrete, asphaltic concrete or one course rein.-con. paving 23 streets, 62,800 sq.yd. pavement if combined curb and gutter is used, 75,000 sq.yd. if integral curb is used, 4,800 sq.yd. in street car zone, 46,000 ft. combined concrete curb and gutter, 26,200 cu.yd. excav.; 3 in. vertical fibre brick, concrete, sheet asphalt, or one course rein.-con. paving 3 streets, 29,200 sq.yd. paving, 3,000 sq.yd. in track zone, 13,000 ft. combined curb and gutter, 10,000 cu.yd. excav. G. E. Heebink, City Hall, engr. Noted Aug. 14.

Wis., Fond du Lac—Apr. 8, by Bd. Pub. Wks., one and two course rein.-con., asphaltic concrete, sheet asphalt or vibrolithic concrete paving 22,226 sq.yd. Carpenter, Lloyd, Marys, Warner, 12th, 13th, South Sibley, Follett, Boyle and South Sts. G. H. Stanchfield, City Hall, engr.

Wis., Waukesha—Apr. 8, by C. J. Hahn, highway comr., improving 3.6 mi. Janesville Plank Rd., 11,143 cu.yd. excav., 38,000 sq.yd. concrete surfacing, 19,344 ft. 6.25 in. parting strip, etc., in Waukesha Co. J. T. Donaghey, Madison, state highway engr.

Ia., Des Moines—Apr. 2, by City Council at office A. E. McGlothlen, city clk., brick and concrete sidewalks in Dists. 1 and 2, for fiscal year ending Mar. 31, 1926. C. M. Garver, mayor.

Minn., Fergus Falls—Apr. 9, by City, H. J. Collins, city clk., rein.-con., vibrolithic concrete, asphaltic concrete, vitr. brick or warrenite bitulithic paving, etc., 21,670 sq. yd. various streets. $55,000. Siverts & Nelson, 300 Builders' Exch., Minneapolis, engr.

Minn., Pipestone—Apr. 8, by T. A. Bailey, aud. Pipestone Co., gravel surfacing about 12,444 cu.yd. Job 2502, State Aid Rd. 13, in Pipestone and Rock Counties, and about 9,600 cu.yd. Job 2501, State Aid Rd. 11, Pipestone Co. H. Smith, Pipestone Co., and J. Brown, Rock Co., Luverne, engrs.

Minn., St. Paul—Apr. 7, by H. W. Austin, city purch. agt., 3,480 bbl. cement and 205 tons asphalt etc., for paving Hewitt Ave.; 1,040 bbl. cement, and 62 tons asphalt etc., for Goodrich Ave.; 810 bbl. cement, [illegible] sq.yd. 3 in. vertical fibre brick, and [illegible] tons asphalt for driveway in Como Park; [illegible] bbl. cement, 1,353 sq.yd. 3 in. brick, and 49 tons asphalt for Como Ave.; 480 bbl. cement, and 26 tons asphalt, for Sargent Ave.; 450 bbl. cement and 27 tons asphalt, etc., for Lafond St. C. H. Shepard, city engr.

Minn., St. Paul—Apr. 7, by H. W. Austin, city purch. agt., curbing, 7 in. rein.-con. paving, 11,963 sq.yd. Snelling Ave. $32,000. G. M. Shepard, city engr.

Minn., Wabasha — Apr. 14, by Comrs. Wabasha Co., F. J. Appel, aud., improving Job 2501, State Rd. 2, 70,000 cu.yd. excav., monolithic culverts and one 20 ft. span bridge; also Job 2402A, State Rd. 8, [illegible] cu.yd. excav. and monolithic culverts. $35,000.

Kan., Topeka—Apr. 8, by E. M. Covell, city clk., grading, 6 and 8 in. concrete surfacing, etc., 44,113 sq.yd. various streets.

Neb., Falls City—Apr. 13, by M. Naylor, city clk., paving with (a) brick (b) asphaltic concrete (Trinidad asphalt) (c) asphaltic concrete (oil asphalt) or (d) rein.-con., 14 blocks, 21st, 25th, Morton and McLean Sts. in Dist. 25, (a) $51,309 (b) $39,933 (c) $39,334 (d) $37,835, 13 blocks Fulton, 12th, Weaver and Reavis Sts., in Dist. 27, (a) $58,382 (b) $44,899 (c) $44,190 (d) $43,481, 16th, 17th, Dewey and Nemaha Sts. in Dist. 28, (a) $37,850 (b) $28,084 (c) $27,676 (d) $27,267; curbing, grading and gravel surfacing streets in Impvt. Dist. 29, $4,625.

North Dakota — Apr. 8, by State Hy. Comn., and Bd. Comrs. Benson Co., at Court House, Minnewaukan, graveling, etc., 7.07 mi. Federal Aid Project 189, about 0.5 mi. south and about 6.5 mi. west of Minnewaukan, also 5.072 mi. Federal Aid Project 157, about 5 mi. southeast of Leeds along railroad track, both in Benson Co.

North Dakota — Apr. 9, by State Hy. Comn., and Comrs. Griggs Co., Court House, Cooperstown, graveling, etc., 5.843 mi. Federal Aid Project 108 A, and 5.05 mi. Federal Aid Project 109 C, both Griggs Co.

North Dakota — Apr. 10 by State Hy. Comn. and Bd. Comrs. Towner Co. at Cando, grading, clearing, grubbing, etc., 6.066 mi. Federal Aid Project 263B

North Dakota — Apr. 13, by State Hy. Comn., and Comrs. Cavalier Co., at Langdon, grading, clearing and grubbing 4 mi. Federal Aid Project 280.

Tex., Coleman—Taking bids improving Commercial, Pecan and Live Oak Sts., 12,952 yd. new base, 1,903 yd. stone added and laying 1,295 yd. bituminous surface. $60,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Karnes City—Apr. 17, by O. N. Powell, engr., grading 9.05 mi. Rd. Dist. 3, State Highway 16. $70,000. O. N. Powell, Karnes City, engr. Noted Jan. 15.

Okla., McAlester—Apr. 6, by R. Evans, grading and concrete surfacing 5 blocks Seminole Ave. and A St., 26 ft. $27,500. F. Frazer, McAlester, engr.

Okla., Wetumka — Apr. 10, by C. N. Hamilton, city clk., grading and vitr. brick surfacing 7,000 sq.yd. St. Louis St. $32,800. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Washington — Apr. 14, by State Hy. Comn., Olympia, grading, etc., 4.5 mi. State Rd. 1, Pacific Highway, Clarke Co.; grading, gravel or crushed rock surfacing 2.76 mi. State Rd. 1, Pacific Highway, King Co., 3.2 mi. State Rd. 14, Navy Yard Highway, Kitsap Co., 7.5 mi. State Rd. 6, Pend O'Rielle Co., 9.6 mi. State Rd. 4, Lincoln Co.; concrete paving 5.1 mi. State Rd. 3, Walla Walla Co., 0.55 mi. State Rd. 5, King Co., 6.5 mi. State Highway 1, Pacific Highway, Pierce Co., 1 mi. State Rd. 3, Yakima Co. J. W. Hoover, Olympia, engr.

California—Apr. 13, by State Hy. Comn., Sacramento, asphaltic oncrete paving 1.9 mi. highway between Ortega Hill and Santa Barbara, Santa Barbara Co. R. M. Morton, highway engr. Noted Feb. 19.

Calif., Chico—City Trustees taking bids improving various streets north of 5th St., east of Main St., etc., 373,000 sq.ft. 5 in. asphalt in concrete paving, 9,000 sq.ft. cement sidewalks, 16,000 sq.ft. cement gutters, 17,000 ft. 5 in. concrete alley paving, etc. R. H. Witt, city engr. Noted Mar. 19.

Calif., Glendale — City Council taking bids improving Howard, Bway., Geneva Sts., etc., 80,400 sq.ft. grading, 76,200 sq.ft. asphaltic concrete paving, 772 ft. "B" curbing, 3,817 sq.ft. sidewalks, etc. To exceed $25,000. B. F. Dupuy, city engr.

Calif., Isleton — Town Trustees taking bids improving various streets, 190,000 sq.ft. grading, 8,000 ft. concrete curbing, 190,000 sq.ft. 5 in. concrete, 3 in. asphaltic

Streets and Roads (Continued)

concrete, or 1.5 in. Willite paving, etc. R. Naas, Antioch, engr. Noted Dec. 18.

BIDS RECEIVED

Mass., Roxbury (Boston P. O.)—Dept. Pub. Wks., City Hall, Boston, recut granite block paving various streets, here, from J. McCourt Co., 48 Walt St., $31,211. Noted Mar. 19.

R. I., East Providence (Providence P. O.) —From J. McCormick, 315 Taunton Ave., Providence, bituminous macadam paving John St. $5,887, James St. $13,662, Purchase St. $9,101, 5th St. $4,278, and Roger Williams Ave. $14,395. Noted Mar. 19.

New York—A. W. Brandt, comr. State Hy. Dept., Albany, **(e. e. means engineer's estimate)**, constructing and reconstructing highways, 5.26 mi. Highway 1704, Dresden-Geneva Rd., Part 2 ,Ontario Co., from J. H. Bolton, Watkins, $218,015, e. e. $261,018; 1.85 mi. Highway 1703, Heimann-Healy Corners, Allegany and Steuben Counties, from H. W. Patterson, Hornell, $83,109, e. e. $99,428; 8.55 mi. Highways 1668, 8176 and 1671, Ulster and Greene Counties, from Ferber-Gill Co., Inc., 16 Johnson Ave., Hackensack, N. J., $337,843, e. e. $351,561; 4.04 mi. Highway 8203, Hubbardsville-North Brookfield Rd., Madison Co., from P. Battifarano, Woodcliff-on-Hudson, N. J., $188,917, e. e. $214,229; 2.35 mi. Highway 1494, Lancaster-Clinton St., Erie Co., from Holmes & Murphy, Orchard Park, $95,406, e. e. $111,994; 3.44 mi. Highway 42, Newburgh-Woodbury Rd., and 5591-415, Newburgh-Cornwall Rd., Orange Co., from J. L. Kehoe Constr. Co., Inc., Newburgh, $151,-649, e. e. $177,841, 2.24 mi. Highway 5323, Penn Yan-Halls Corners, Yates Co., from Parlor City Constr. Co., Binghamton, $89,-442, e. e. $102,709; 1.59 mi. Highway 5144, Monroe-Oxford Rd., and 5297, Oxford-Chester Rd., Orange Co., from Hull & Hollenbeck, Central Valley, $83,889, e. e. $90,725; 1.99 mi. Highway 521, Massena-Waddington Rd., St. Lawrence Co., from W. T. Thayer & Co., Chateaugay, $81,324, e. e. $90,978; 0.73 mi. Highway 179, Schenectady-Albany Rd., Schenectady Co. from Malloy Constr. Co., Schenectady, $44,137, e. e. $49,016; 1.21 mi. Highway 5209, Utica-Frankfort Rd., Herkimer Co., from Utica Constr. Co., Inc., 622 South St., Utica, $51,992, e. e. $58,521; 3.55 mi. Highway 529, Alden Town Line-Marilla Rd., Erie Co., from F. W. Knickenberg, 702 Michigan Ave., Buffalo, $143,547, e. e. $172,405; 6.65 mi. Highway 581, Yates-Lyndonville-Ridgway Rd. and Highway 5556, Ridgeway-Gaines Rd., Orleans Co., from W. J. Gallagher, Medina, $205,336, e. e. $250,203; 3.74 mi. Highway 1705, Schuyler Falls Rd., Clinton Co., from T. S. O'Brien, Albany, $146,689, e. e. $162,642; 0.74 mi. Highway 865, Mt. Kisco Village, Westchester Co., from F. Roeber Co., Inc., 507 5th Ave., New York City, $39,740, e. e. $48,831; 3.02 mi. Highway 480, Buffalo, Monroe Co., from D. T. Ripon, Inc., Carter Bldg., Rochester, $109,134, e. e. $130,-449. Noted Feb. 26.

N. Y., Long Island City — M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Mar. 27, sheet asphalt repaving Franklin and Central Aves., from Uvalde Asphalt Paving Co., 1 Bway., New York City, $43,670 and $30,143 respectively. Noted Mar. 26.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Mar. 23, grading, curbing, sidewalks, etc., on Charlotte Pl., from C. Kurth, 9519 126th St., Richmond Hill, $4,335; Roosevelt Ave., from Welsh Bros. Contg. Co., 32 Queens St., Astoria, $19,165; 86th Ave., from P. J. Greenough Eng. Co., 9301 86th Rd., Woodhaven, $4,067; 101st St., from J. J. O'Brien Jr., William St., Jamaica, $6,315; Cornaga Ave., from H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, $1,573. Noted Mar. 19.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Mar. 26, from Asphalt Constr. Co., 208 Bway., sheet asphalt paving Walton Ave., $116,-387; from Interboro Asphalt Co., 2306 Creston Ave., sheet asphalt paving Monterey Ave. $19,234; bituminous concrete paving East 207th St. $18,198; from C. D. Beckwith, 2875 Bway., sheet asphalt paving St. Lawrence Ave. $34,217; from Burnside Contg. Co., Burnside Ave., grading, curbing, etc., Gouverneur Ave. $9,331; from T. DiRoma, 33 Evelyn Pl., grading, etc., Wilson Ave. $17,820, from Gramaglia Bros., DeWitt Pl., $6,289. Noted Mar. 19.

Pennsylvania—State Dept. Hys., Harrisburg, Mar. 27, **(R. means Route and A. Application)**, rein.-con. surfacing R. 268, Washington Co., and R. 48, Bedford Co., from M. Bennett & Sons, Indiana, $236,667 and $658,057 respectively; A. 3123, and R. 63,357, A. 3124 and 3126, both Jefferson Co., from M. J. McMahon, Brookville, $71,403 and $94,890 respectively; R. 214, A. 3150, Clarion Co., from D. W. Challis & Sons, Inc., 420 Centennial Ave., Sewickley, $189,103; R. 121-122, Huntingdon Co., from J. L. Plummer, Inc., Johnstown, $459,940; A. 2212, Lebanon Co., from C. B. Johns & Bro., Malvern, $151,757; R. 242, Washington Co., from A. G. Rothey, Elizabeth, $97,-687; R. 259, Northumberland Co., from R. C. and I. T. Fiss, Shamokin Dam, $23,664; R. 268, Washington Co., from Blue Ridge Constr. Co., Inc., Uniontown, $80,572; R. 57, Blair Co., from McClure & Bingner Co., Inc., 1014-1015 U. S. Bank Bldg., Johnstown, $23,305. Noted Mar. 12.

Pa., Phila. — Bureau Hys., Dept. Pub. Wks., Mar. 25, from Curtis Bros., State Rd., grading Aldine, Bleigh, Crispin, Leon and Tudor Sts. $35,439, from Morrissey Bros., 4345 North 7th, B and Lowden Sts. $4,705, from McNicol Paving & Constr. Co., 1319 Cherry St., Ditman St. $8,781, from R. B. Wenner, 2313 Walnut St., Dover St. $1,052, from H. A. McClermox, 13th St., 65th and 66th Sts. $4,811; from Eastern Asphalt Co., Colonial Way, asphalt repaving Allegheny St. $64,662, York St. $25,-986, from Union Paving Co., 30th and Locust Sts., Baltimore St. $52,969, Market St. $111,616, redressed granite block repaving Richmond St. $52,079, 60th St. (track area) $34,378; from Barber Asphalt Co., 30th and Race Sts., asphalt repaving Tasker and 23rd Sts. $22,140, Wood St. $3,711, improving intersection 9th St. and Roosevelt Blvd. $5,240, paving Bensalem Ave. Bridge over Pennypack Creek $24,235; from Municipal Paving Co., 702 Catharine St., redressed granite block repaving Christian St. $39,368, 2nd St. $42,774, from C. G. Centrone, Jefferson Bldg., Station St. $1,792, from Acchione & Canuso Paving Co., 804 South 12th St., 7th St. $12,143, from Mazzola & Marano, 739 South 7th St., 11th St. $89,140; from J. F. and P. O'Roarke, 925 South 47th St., curb and footway work (city to pay) $11,599; from City Paving Co., 732 Kater St., paving and repaving certain alleys $2,595.

Maryland—State Roads Comn., 801 Garrett Bldg., Baltimore, concrete paving 2.5 mi. Contr. AA42, Anne Arundel Co., from Christhilf & Ensey, 1625 Ridgely St., Baltimore, $112,228; 1 mi. Contr. H-44, Harford Co., from G. A. Atkinson, Port Deposit, $28,803; 2.5 mi. Contr. Q-22, Queen Annes Co., from Highway Eng. & Contg. Co., Selbyville, Del., $43,487; 1.59 mi. Contr. W1-29, Wicomico Co., from Holt Constr. Co., Federaldburg, $48,922; 2 mi. Contr. F-69, Frederick Co., from Gosnell, Russell & Co., Frederick, $71,995; 3.5 mi. Contr. CO-37, Caroline Co., 1 mi. Contr. S-22, Somerset Co., and 1.5 mi. Contr. WO-39, Worcester Co., from Hannemann-Burroughs Co., Adkins Bldg., Salisbury, $76,985, $35,310 and $45,628 respectively. Noted Mar. 12.

North Carolina—State Hy. Comn., Raleigh, Mar. 24, **(S. P. means State Project)**, grading and concrete or asphaltic paving 8.35 mi. S. P. 815-B, and 8.62 mi. S. P. 915-A, both Cherokee Co., from R. H. Wright & Sons, Dillsboro, $212,252 and $229,949 respectively, 6.3 mi. S. P. 297, Wilson Co., and 6.5 mi. S. P. 161, Nash Co., from Highway Eng. & Constr. Co., Selbyville, Del., $197,101 each, 3.44 mi. S. P. 753-C, Stokes Co., from G. R. Martin, Salisbury, $99,137, 10.77 mi. S. P. 215, Craven Co., from Virginia Eng. Co., Inc., Newport News, Va., $277,520, 12.61 mi. S. P. 720-C, Caldwell Co., from Thompson-Caldwell Constr. Co., Cherryville, $318,352; grading 6.57 mi. S. P. 486-A, Wake Co., and 6.62 mi. S. P. 348, Lee Co., from C. B. Hester, Greensboro, $55,558 and $52,869 respectively, 10.19 mi. S. P. 824, Cleveland Co., from Geer & Wilson, Rutherfordton, $63,845, 12.30 mi. S. P. 394, Robeson Co., from J. F. Mulligan Constr. Co., North Wilkesboro, $95,318. Noted Mar. 5.

O., Zanesville — Improving Dryden St., from Republic Asphalt Paving Co., Hamilton, $26,352. Engrs. est. $30,000.

Mich., Detroit — From Detroit Asphalt Paving Co., 909 Free Press Bldg., 4,750 sq. yd. Wildemere Ave. $22,167, 4,640 sq.yd. Bedford Rd. $22,633, 2,480 sq.yd. Burt Ave. $12,113, 7,980 sq.yd. Beaconsfield Ave. $37,-018, 2,040 sq.yd. Gladys St. $9,949, 2,210 sq.yd. Griggs Ave., Sect. 2 $10,343, 4,650 sq.yd. Keller Ave. $21,761, 4,050 sq.yd. Burnette Ave. $19,359, 14,590 sq.yd. La Salle Ave. $63,263; from Cleveland Trinidad Paving Co., 402 Hammond Bldg., 1,106 sq.yd. Waverly Ave. $5,713; from M. R. Hanna Co., 1636 Dime Bank Bldg., 2,680 sq.yd. Hawthorne Ave. $13,318, 11,600 sq. yd. Iverness Ave. $53,511.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, Mar. 16, concrete surfacing 12.17 mi. Route 5, Sects. 28 and 29, Jo Daviess Co., from Black Hawk Constr. Co., Waterloo, Ia., $276,799, 6.26 mi. Route 5, Sects. 30 and 31, Jo Daviess Co., from Western States Paving Co., Davenport, Ia., $107,522, 6.5 mi. Route 1, Sect. 32, Saline Co., from French Constr. Co., Fairfield, $109,979, 17.99 mi. Route 9, Sects. 37, 38, 40, 41 and 41-D, Fulton and McDonough Counties, $376,874, 11.11 mi. Route 9, Sect. 46, Vermilion Co., from E. Patterson Constr. Co., Casey, $109,785, 7.21 mi. Route 12, Sect. 1, Lawrence Co., from M & P Contg. Co., Rockport, Ind., $121,705, 11.18 mi. Route 22, Sect. 20, Lake Co., from Universal Eng. Co., Bedford, Wis., $229,-921, 7.11 mi. Route 23, Sect. 3, La Salle Co., from Trompeter & Sons, Peru, $165,084, 10.09 mi. Route 23, Sect. 4, La Salle Co., from H. Zolper & Sons, Mendota, $240,752, 9 mi. Route 23, Sects. 29, 30 and 31, De Kalb and La Salle Counties, from Henkel Constr. Co., Mason City, Ia., $340,313, 15.39 mi. Route 36, Sects. 11, 12 and 13, Adams Co., from Hamilton Hoffman Constr. Co., Carbondale, $380,000, 1.27 mi. Route 37, Sects. 11-X and 13-V, Franklin and Williamson Counties, from Mitchell Constr. Co., Marion, $35,888, 2.57 mi. Route 31, Sect. 10, Schuyler and Brown Counties, from McMahon Constr. Co., Rochester, Ind., $74,-664, 3.31 mi. Route 38, Sect. 2, Jersey Co., from Nelson Constr. Co., Edwardsville, $73,563, 6.4 mi. Route 43-A, Sect. 1, Menard Co., from Duncan Constr. Co., Champaign, $121,856, 11.3 mi. Route 39, Sects. 12 and 13, Champaign and Piatt Counties, from Divine Constr. Co., Watseka, $288,000, 0.29 mi. Starved Rock Park, Sect. P-4, La Salle Co., from R. K. Carr, Ottawa, $9,495; brick surfacing 11.86 mi. Route 8, Sect. 40, and Route 41, Sect. 14, Knox Co., from Central Eng. Co., Putnam Bldg., Davenport, Ia., $414,000; gravel surfacing 2.14 mi. Route 12, Sect. 9, Richland and Clay Counties, from R. G. Flauger Constr. Co., Urbana, $21,014; grading 50,780 cu.yd. Route 12, Sect. 1-A, Lawrence Co., from W. T. Bland, 716 Walnut St., Murphysboro, $16,642, 23,300 cu.yd. Route 38, Sect. 2-A, Jersey Co., from Edwardsville Constr. Co., Edwardsville, $17,760, 56,865 cu.yd. Route 27, Sect. 16-A, Carroll and Ogle Counties, from Cameron, Joyce & Co., Keokuk, Ia., $29,261, 15,000 cu.yd. Route 8, Sect. 50-A, Tazewell Co., from E. M. Roche, Freeport, $47,683, 1.94 mi. Route 33, Sect. 7-A, Effingham Co., from A. D. Johnson, Paxton, $16,691. Noted Nov. 27 and Dec. 25.

Wis., Columbus—W. H. Pietzner, city clk., Mar. 19, 13,088 sq.yd. paving, etc., various streets, from O'Dea & Shafer, Madison, vibrolithic concrete at $2.21 per sq.yd., total $47,173, one course rein.-con. at $2.08, total $45,472; from J. Rasmussen & Sons, foot of 7th St., Oshkosh, asphaltic concrete $52,236. Noted Mar. 12.

Wis., Elkhorn — H. J. Peters, highway comr., Walworth Co., Mar. 24, grading, curbing, guttering and paving, etc., 4 mi. Lake-Geneva-Williams Bay Rd., 36,660 sq.yd. 18 in. and 9,500 sq.yd. 27 in. concrete, from R. R. Birdsall Constr. Co., 1025 12th St., Racine, $94,513. Noted Mar. 19.

Wis., Waupun—Bd. Pub. Wks., Mar. 23, 16,640 sq.yd. paving, etc., various streets, from Schreiber & Waterworth, Randolph, vibrolithic concrete, $53,653; from J. Rasmussen & Sons, foot of 7th St., Oshkosh, asphaltic concrete, $59,742; from General Contg. Co., 1222 Plymouth Bldg., Minneapolis, Minn., Warrenite-bitulithic concrete, $66,380. Noted Mar. 12.

Minn., St. Paul — H. W. Austin, city purch. agt., Mar. 17, from Thornton Bros., 318 Endicott Bldg., asphaltic concrete paving 9,138 sq.yd. Carroll St. $25,900, 3,875 sq.yd. Montrose Pl. $14,732, and sheet asphalt paving 7,340 sq.yd. Cromwell and Bayless Aves. $24,478; from Hanlon & Okes, 1501 Merchants Natl. Bldg., brick on concrete paving 7,688 sq.yd. Beach St. $23,-998. Noted Mar. 12.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Mar. 24, from Bridges Asphalt Paving Co., Buder Bldg., asphalt paving 6,815 sq. yd. 18th St. $34,080, granite curbing and asphaltic concrete paving 2,030 sq.yd. Concord Pl. $11,971, 2,940 sq.yd. Robert Ave. $16,308, concrete curbing and asphaltic concrete surfacing 615 sq.yd. Pennsylvania Ave. $5,116; from Granite Bituminous Paving Co., Railway Exch. Bldg., Warrenite bitulithic paving 4,959 sq.yd. Belt Ave. $22,115, 10,450 sq.yd. De Tonty St. $58,663, Lake Ave. $17,901; from Blackburn-Crean Constr. Co., Chouteau Trust Bldg., concrete curbing and concrete paving 1,515 sq.yd. Frederick St. $7,509; from Eyermann Constr. Co., 1216 South Grand Blvd., granite curbing and concrete paving 4,135 sq.yd. Nagle Ave. $21,718; from Skrainka Constr. Co., Security Bldg., granite curbing and brick on concrete surfacing 2,040 sq.yd. West Park Ave. $12,289; from Brighton Constr. Co., 211 Josephing Bldg., Warrenite bitulithic paving 4,200 sq.yd. San Francisco Ave. $20,559. Noted Mar. 5.

Tex., Houston — Paving Main St. and Bellaire Blvds. from Main Blvd. to Almeda Rd., from Smith Bros. Inc., Amer. Exch.

Streets and Roads (Continued)

Natl. Bank Bldg., Dallas, $188,838. Engrs. est. $125,000.

Wash., Seattle — From Fiorito Bros., 3950 6th St. N. W., improving Waters Ave. et al., 1,600 ft. special curb $0.25 per ft., 47,200 sq.yd. concrete sidewalk $1.38, 5,500 cu.yd. earth excav. $0.75, total (1 course) $99,376 (2 course) $99,376. Engrs. est. $104,892.

Calif., Los Angeles—From G. R. Curtis Paving Co., 2440 East 26th St., improving Leeward Ave., 2,184 sq.ft. gutter at $0.22 per sq.ft., 356 sq.ft. sidewalk $0.19, 970 cu. yd. excav. total $1,250, 41,483 sq.ft. 1.5 in. on 5 in. Warrenite bitulithic paving $0.23 per sq.ft., etc., total $11,577; from Griffith Co., Railway Bldg., improving 53rd St., 389 ft. curb $0.75, 5,553 sq.ft. gutter $0.23, 4,492 sq.ft. sidewalk $0.18, 2,355 cu.yd. excav. $2,800, 1,840 sq.ft. 2 in. sheet asphalt $0.08, 84,632 sq.ft. asphaltic concrete paving $0.19, etc., total $21,640; from Chalmers & Ford, H. W. Hellman Bldg., improving Nordhoff St., 7,367 cu.yd. cut and 1,500 cu.yd. fill, total $5,000, 208,037 sq.ft. 6 in. concrete base $0.18, etc., total $49,466.

Calif., San Diego—A. H. Wright, city elk., Mar. 16, from E. P. Ford, 4200 Highland Ave., 9,545 cu.yd. excav. at $0.50 per cu.yd., 74,851 sq.ft. 4 in. concrete paving $0.173, 17,784 sq.ft. concrete sidewalks $0.17, 3,822 ft. concrete curbs $0.60, etc., total $23,077. Noted Mar. 5.

Calif., Tulare—City, from Valley Paving & Constr. Co., Visalia, improving various streets, 241,807 sq.ft. 4 in. Willite paving at $0.19 per sq.ft., 241,807 sq.ft. grading $0.023, 25,655 sq.ft. concrete paving $0.21, 25,655 sq.ft. grading $0.03, total $73,190.

CONTRACTS AWARDED

New Hampshire — W. A. Stone, state purch. agt., State House, Concord, furnishing and applying asphalt, 138,000 gal. 45%, 679,934 gal. 65%, 9,034 gal. 90%, 340 tons 60-70 penetration, 195,175 gal. 100-120 penetration, to Standard Oil Co. of New York, 31 St. James St., Boston, Mass., 45% $0.0921 per gal, 65% $0.103, 90% $0.1234, 100-120 $0.0163 per gal. tank car, furnishing 100-120 $0.115 per gal. bbl. or drum, 60-70 to destination given $25.55 per ton, to any point in state $27.15 per ton, to Alden Speare's Sons Co., 156 6th Ave., Cambridge, Mass., furnishing 100-120 $0.093 per gal. tank car, to M. Moulton, Jr., 6 Beacon St., Boston, Mass., furnishing and applying 100-120 to East Kingston, Exeter, Milton, Rochester and Stratham, $0.1595 per gal. by truck; furnishing and applying 24,000 gal. tar Tarvia A, and 2,568,646 gal. tar Tarvia B, to Barrett Co., 11 Beacon St., Boston, Mass., $0.1355 per gal. Noted Mar. 5.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves. to Regan Towers Co., 124 West 121st St., granite block paving Kingsbridge Rd. from Fordham Rd. to East 194th St. $53,365, asphalt block repaving Grant Ave. $45,348; to Burnside Contg. Co., 270 Burnside Ave., asphalt block repaving Southern Blvd. $63,-085; to Leonard Paving Co., Woolworth Bldg., granite block paving Kingsbridge Rd. from Jerome to Sedgwick Aves., $112,-473, to St. George Granite Co., 90 West St., East 138th St. $90,824; to C. D. Beckwith, 2875 Bway., sheet asphalt paving Clifford Pl. $9,898, Eastburn Ave. $17,746, to Gaffney Constr. Co., 50 East 42nd St., Nelson Ave. $33,750, to Interboro Asphalt Paving Co., 2306 Creston Ave., Shakespeare Ave. $40,349. Noted Mar. 26.

N. J., Flemington — Bd. Freeholders Hunterdon Co., to Dosch King Co., East Orange, 5,000 gal. X or U3 tar $0.1519 per gal., and 107,000 gal. B or U.B. tar $0.1505; to Barrett Co., 50 Rector St., New York City, 15,000 gal. K.P. or U.C. tar for patch $0.19 per gal.; to Asphalt Service Co., New Brunswick, 25,200 gal. asphalt $0.14; to R. C. O. Atlantic Refining Co., 1211 Chestnut St., Philadelphia, Pa., 27,000 gal. asphalt $0.15 per gal.; to A. E. and H. K. Headley Good Roads Co., Franklin Trust Bldg., Phila., Pa., 9,000 gal. asphalt $.19 per gal.; to Natl. Slag Co., Widener Bldg., Phila., Pa., 500 tons ¾in. slag $2.30, and 860 tons slag chips $2.30.

N. J., Highlands — Bd. Freeholders Monmouth Co. (Freehold), concrete paving 1.27 mi. Highlands-Stone Church Rd., to Jannorone Constr. Co., 225 Passaic Ave., Belleville, $88,036.

N. J., Salem—Bd. Freeholders Salem Co., 405,000 gal. slow curing asphaltic oil, to Asphalt Service Inc., New Brunswick, $43,254.

Pennsylvania—State Hy. Dept., Harrisburg, (A. means Application and R. Route), concrete paving 62,130 sq.yd. R. 169, Luzerne Co., to R. Hopkins Co., Box 1025, Albany, N. Y., $318,950, 63,900 sq.yd. in Franklin Co., to Souder Constr. Co., Woolworth Bldg., Lancaster, $271,264, 81,300 sq. yd. R. 95, Warren and McKean Counties, to Irwin & Payne, Evans City, $424,461, 98,130 sq.yd. R. 14, Susquehanna Co., to D. Schoentag, Saugerties, N. Y., $516,774, 119,125 sq.yd. R. 164, Monroe Co., to R. L. Bonham Co., Bridgeton, N. J., $505,853, 44,770 sq.yd. R. 211, A. 2889 and 3223, McKean Co., to J. F. Morgan Co., Olean, N. Y., $239,643, 37,300 sq.yd. R. 184, Luzerne Co., to D. W. Davis & Sons, 19 Union St., Kingston, $178,059, 20,919 sq.yd. R. 112, Fayette Co., to Donora Constr. Co., Donora, $121,367, 76,097 sq.yd. R. 92, Clarion Co., to Connell Laub & Bracht, 51 Woodcrest Ave., Dayton, O., $325,818, 70,-840 sq.yd. R. 88, Warren Co., to H. E. Bunce, 125 Fulton St., Olean, N. Y., $383,-804, 45,840 sq.yd. R. 164, Carbon and Monroe Counties, to McInerney & McNeal, Northampton Natl. Bank, Easton, 64,388 sq.yd. R. 245, Blair and Center Counties, to J. M. Hutchinson, Altoona, $410,826, 64,-400 sq.yd. R. 47, Bedford Co., to C. Winters Constr. Co., Butler, $291,313, 22,410 sq. yd. R. 296, Susquehanna Co., to Holleran Bros., 901 Linden Pl., Elmira, N. Y., $102,-107, 29,088 sq.yd. R. 52, A. 3050, Somerset Co., to McClure & Bingner, Johnstown, $146,960, 52,296 sq.yd. R. 31, Perry Co., to Swanger & White, 2nd and Canal Sts., Lebanon, $253,966, 2,263 sq.yd. A. 3203, R. 206, Mercer Co., to Du Bois Constr. Co., Du Bois, $11,701, 58,186 sq.yd. R. 59, Elk Co., to W. C. Quick & Co., Brookville, $296,783, 23,384 sq.yd. R. 234, A. 3096, Clearfield Co., to Lord Constr. Co., Hastings, $142,-223, 108,563 sq.yd. R. 241, Bradford and Wyoming Counties, to Public Service Production Co., 80 Park Pl., Newark, N. J., $642,462, 79,587 sq.yd. R. 198, A. 3157, Montgomery Co., to Ambler Davis Co., Harrison Bldg., Phila., $301,913, 84,008 sq.yd. R. 95, McKean Co., to D. L. Dennis, Smethport, $429,001, 11,527 sq.yd. R. 5, Luzerne Co., to J. Newcomb, 156 Carroll St., Pittston, $55,014, 27,771 sq.yd. R. 336, A. 2923, Dauphin Co., to W. M. Moser, Mt. Carmel, $127,991, R. 83, A. 31, Crawford Co., to Lewis & Frissinger, Rockford, O., $93,441, 48,931 sq.yd. R. 295, Crawford Co., to Russell Bros., Youngstown, O., $234,278, 79,-783 sq.yd. R. 219, Center Co., to James & Nicholson, Inc., Johnstown, $458,763, 95,690 sq.yd. R. 99, Cameron and Elk Counties, to W. D. Fote, 130 South 4th St., Olean, N. Y., $506,806, 113,907 sq.yd. R. 48, Bedford Co., to Bester-Long Co., Hagerstown, Md., $544,146, 28,300 sq.yd. R. 251, Butler Co., to Rood Constr. Co., Lyric Theatre Bldg., Butler, $210,754, 57,300 sq.yd. R. 92, Clarion Co., to J. McCarty Constr. Co., Union City, $261,184; 56,950 sq.yd. R. 62, Sect. A, and 33,866 sq.yd. R. 219 and 313, both Clearfield Co., to Avery & Bailey, Phillippsburg, $339,990 and $148,432 respectively, 87,352 sq.yd. R. 189, and 83,995 sq.yd. R. 63, both Indiana Co., to Johnson Drake & Piper, Inc., 834 Soo Line Bldg., Minneapolis, Minn., $417,241 and $382,228 respectively, 76,400 sq.yd. R. 110, Greene Co. and 56,900 sq.yd. R. 325, Washington and Greene Counties, to T. Cronin Co., South 18th and Fox Sts., Pittsburgh, $532,158 and $366,772 respectively, 9,291 sq.yd. R. 52, A. 3158, and 32,-396 sq.yd. R. 50, A. 3049, both Somerset Co., to A. W. Hinaman, Mansfield, $40,952 and $154,336 respectively; grading R. 84, Crawford Co., 709 cu.yd. earth and 6,354 cu.yd. borrow excav., to Milliron Constr. Co., Inc., Du Bois, $7,153, R. 88, Warren Co., 564 cu.yd. earth and 51,171 cu.yd. borrow excav., to E. C. Jones, Great Valley, N. Y., $50,555; asphalt on concrete surfacing 8,838 sq.yd. R. 73, Mercer Co., to Allegheny Paving Co., 1204 Park Bldg., Pittsburgh, $37,870. Noted Feb. 19 and Mar. 12.

Pa., Crafton — Repaving Crafton Ave. from Steuben to Belvidere St., to W. T. Clary, Crafton. Engrs. est. $100,000.

Pa., Phila. — Bureau Hys., Dept. Pub. Wks., to Curtis Bros., State Rd. and Unruh St., grading Ashville, Decatur, Hartell, Lansing and Napfle Sts. $18,996, to R. B. Wenner, 2313 Walnut St., Boyer and Sharpnack Sts. $4,896, to A. Koch, 4284 Parkside St., Diamond St. $3,097, to Richards-Kelly Co., 349 North 47th St., Lippincott, Natrona and 33rd Sts. $17,779, to Dewees Bros., 5th and Fishers Ave., Wellesley Rd. $1,985; to Union Paving Co., 30th and Locust Sts., asphalt paving Dicks St. $17,020, to Eastern Paving Co., Penna Bldg., Lawrence St. $2,573, Wagner and Warnock Sts. $6,017, redressed granite block repaving 15th St. $46,333; to Barber Asphalt Co., 239 North 30th St., asphalt paving 16th St. $15,155, 32nd St. $7,443, asphalt repaving Dudley, Durfur, Fernon, Fitzgerald, Winton and Wolf Sts. $22,235; to B. Foster Co., Inc., 205 Venango St., improving Botanic St. $3,263; to Municipal Paving Co., 701 Catharine St., redressed granite block repaving 2nd St. $58,063, 21st St. $10,455, to Acchrone & Canuso Paving Co., 804 South 12th St., 12th St. $27,146, to M. J. McCrudden, 1134 Real Estate Trust Bldg., 13th, Glenwood and 12th Sts. $53,071; to G. F. Dobbin, 1020 South 47th St., reconstructing Market St. Bridge over Baltimore and Ohio R.R., $24,662; to L. Bokser, 1518 North 8th St., curbing and footway work $10,861, (property owner to pay 6th highway district).

Maryland — State Roads Comn., Baltimore, concrete paving 2.5 mi. Contr. Q-22, Queens Annes Co., to Highway Eng. & Contg. Co., Selbyville, Del., $43,487; 1.59 mi. Contr. WI-29, Wicomico Co., to Holt Constr. Co., Federalsburg, $48,922; 3.5 mi. Contr. CO-37, Caroline Co., and 1.5 mi. Contr. WO-39, Worcester Co., to Hannemann-Burroughs Co., Adkins Bldg., Salisbury, $76,985 and $45,628 respectively.

Md., Baltimore — Bd. Awards, concrete paving 12,890 sq.yd. Contr. 271-OANA, to J. J. Bresnan, Old Pimlico Rd., $33,787; sheet asphalt paving 9,510 sq.yd. Contr. 272-OCOA, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $41,228, and 19,375 sq.yd. Contr. 273-OCOANA, to Amer. Paving Co., Montebello Ave., $86,-964. Noted Mar. 26.

W. Va., Huntington — Sheet asphalt on concrete surfacing 2 mi. Washington Blvd., and brick and concrete surfacing 1.25 mi. Ritter Blvd., both 24 ft., to Hatfield Constr. Co., 418½ 10th St., $119,669 and $77,341 respectively; 4 in. brick on concrete surfacing 6 mi. 4th St. and Madison Ave., 24 ft., to J. A. Griffith, 1651 Washington Ave., $25,000, 0.25 mi. 17th Alley and 10th Ave., 12 and 20 ft., to G. Henkle, 1736 6th Ave., $12,000; brick on concrete surfacing 1 mi. Olive St., 24 ft., to L. J. Gillespie, 1751 5th Ave., $45,413; concrete surfacing 0.6 mi. Arlington Blvd., 24 ft., to G. Pence, 1454 4th Ave., $25,677. Noted Mar. 12.

W. Va., Philippi—Barbour Co., concrete and bituminous macadam on rock surfacing 6.84 mi. roads in Union Dist., 18 ft., to Gillooly & Marshall Co., Buckhannon, $279,-600. Noted Mar. 5.

N. C., Nashville — Nash Co., clearing, grubbing, grading and sand clay or topsoil surfacing 50 mi. various roads, to N. L. Teer, Durham.

Tenn., Livingston — Overton Co. Rd. Comn., grading, etc., 8 mi. Livingston-Twinton Rd., to F. H. Crowe & Co., 42nd Ave. N., approximately $25,000.

O., Cleveland — Cuyahoga Co., concrete paving Ford Rd. and Bishop Rd. 1 and 2, to Ohio Contg. Co., Hunkin-Conkey Bldg., $52,710 and $85,921 respectively; penetration macadam paving Tuxedo Lake Rd., to Loesch & Green Co., Bedford, $30,217. Noted Mar. 26.

O., Cleveland—Grading, curbing, guttering and vitr. brick paving 10,130 sq.yd. Munn Rd., to Freshwater Constr. Co., Davis & Farley Bldg., $62,710; grading, curbing, guttering and asphaltic concrete paving 8,500 sq.yd. Soika Ave., to H. G. Herring, Pavers Exch., $35,744. Noted Mar. 5.

O., Columbus — W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and concrete paving 600 ft. Pearl St., 12 and 20 ft., to Yale Constr. Co., 146 Yale Ave., $3,597, 726 ft. 2nd alley west of 4th St., 20 ft., to Federal Paving Co., 996 McAllister Ave., $4,416; asphaltic concrete paving 3,000 ft. Northwest Blvd., 100 ft., to B. F. Patterson, 1214 Neil Ave., $65,484; asphalt paving 957 ft. Hamilton Ave., 23 and 30 ft., and 2,181 ft. Cleveland Ave., 45 ft., to Knight & Wells, 483 Oak St., $11,803 and $39,045 respectively, 6,504 ft. 17th Ave., 30 ft., to A. W. Burns Constr. Co., 316 South High St., $63,-717, 878 ft. Ann St., 24 ft., to Franklin Asphalt Paving Co., 209 South High St., $10,-559; 1,580 ft. 8 in. sanitary sewer in Frebis Ave., to W. J. Waever, 135 Oakland Park Ave., $2,344. Noted Mar. 12.

O., Columbus — W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and asphalt paving 3,330 ft. Champion Ave., 30 ft., to Franklin Asphalt Paving Co., 209 South High St., $56,923. Noted Feb. 26.

O., Zanesville—Sheet asphalt paving Putnam Ave., to General Asphalt Paving Co., 1268 Dueber Ave. S. W., Canton, $25,508; also Lexington Ave., to Brewer & Brewer Sons Co., Chillicothe, $27,869. Engrs. est. $30,000 each.

Ind., Indianapolis—Concrete paving 17,-600 sq.yd. Harding St., to Standard Paving Co., Guaranty Bldg., $2.89 per sq.yd.; and 1,621 ft. Delaware St., to McNamara Constr. Co., 946 West New York St., $34,-897, engrs. est. $35,000.

Mich., Detroit—To Otis Cement Constr. Co., 806 Hammond Bldg., one course concrete paving 463 sq.yd. Alley 2125 $1,212, 697 sq.yd. Alley 2121 $1,815, 705 sq.yd. Alley 2120 $1,798, 1,590 sq.yd. Alley 2118 $3,897, 1,086 sq.yd. Alley 2117 $2,797, 2,030 sq.yd. Alley 2114 $4,969, 1,740 sq.yd. Alley 2115 $4,216; to L. W. McKenna, 2658

Streets and Roads (Continued)

Harding Ave., 505 sq.yd. Alley 2124 $1,284, 490 sq.yd. Alley 2123 $1,271, 518 sq.yd. Alley 2122 $1,446; to R. J. Powelson & Co., 6415 Iroquois Ave., 937 sq.yd. Alley 2119 $2,333, 1,405 sq.yd. Alley 2116 $3,548.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 5, Sect. 40, Winnebago Co., to G. Welch, Beloit, Wis., $53,167, Route 10, Sect. 35, Vermilion Co., to A. J. Parrish, Paris, $99,078, Route 46, Sects. 461, 463 464 and 465, Cook Co., to Chicago Heights Coal Co., Chicago Heights, $619,000; grading Route 15, Sect. 14-A, Jefferson Co., to T. J. Crowley & Son, Centralia, $6,951. Noted Dec. 11 and 26.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, surfacing Route 1, Sect. C-1, Iroquois Co. and Route 27, Sect. D-1, Carroll Co., to Shanks & Gannon, Watseka, $165,172, Route 4, Sect. 28, Will Co., and Route 4, Sect. 29, DuPage County, to R. F. Conway Co., 844 Rush St., Chicago, $344,188, Route 43, Sect. 3, Mason Co., to Jansen & Schaefer, 212 North Cap St., Pekin, $101,380, Route 27, Sect. 15, Carroll Co., to Stevens Bros. and McCree & Co., Merchants Natl. Bank Bldg., St. Paul, Minn., $143,633, Route 1, Sect. 47 and 48, Vermilion Co., to Glove Constr. Co., Evansville, Ind., $270,564; grading Route 36, Sect. 16-A and 17-A, Pike Co., to Stevens Bros., St. Paul, Minn., $79,920. Noted Feb. 26.

Ill., Galesburg — Grading, vitr. brick on concrete surfacing, etc. 6,060 sq.yd. West Brooks St., to Graham King Constr. Co., 550 South Cedar St., $24,074, engrs. est. $25,000; 3,345 sq.yd. Garfield Ave., to H. H. Gunther, 600 East Main St., $13,382, engrs. est. $13,592. Noted Mar. 19.

Ill., Peoria — Bd. Local Impvts., to A. Biehl, 1011 3rd Ave., vitr. brick on concrete surfacing 9,375 sq.yd. Atlantic St. $27,918, 1,500 sq.yd. Missouri St. $4,482, and 2,800 sq.yd. Maryland Ave. $8,415.

Wisconsin—State Hy. Comn., at Office 2, 208 Stephenson Bldg., Milwaukee, improving Fond du Lac-Oshkosh Rd., Federal Aid Project 364-A, Fond du Lac Co., 8,839 sq.yd. widening, 21,355 sq.yd. 20 ft. concrete paving, etc., to F. D. Hayes, Hayes Block, Janesville, $55,276. Noted Mar. 12.

Wis., Kenosha—C. M. Osborn, city mgr., sheet asphalt paving 73,900 sq.yd. 21 streets, and asphaltic concrete paving 31,200 sq.yd. 10 streets, to J. Rasmussen & Sons Co., foot of 7th St., Oshkosh, $233,554 and $92,429 respectively; and rein.-con. paving 9,900 sq.yd. 3 streets, to H. J. Glover & Son, Schwartz Bldg., $29,422. Noted Mar. 12.

Wis., Milwaukee — Dept. Pub. Wks., improving 1 alley, to Texas Constr. Co., 446 68th Ave., West Allis, $2,340; 1 alley, to E. C. Borst, Manitowoc, $5,938; 1 alley, to G. W. Hirth, 1309 7th St., $1,233; 3 alleys, to Ryback & Sadowpki, 1092 2nd Ave., $13,531; 2 alleys, to Schwerm Bros., 50 Lee St., $2,521; and 3 alleys, to Parkinson Constr. Co., 322 27th St., $10,635. Work involves 12,160 sq.yd. concrete paving 3,900 cu.yd. excav., etc. Noted Mar. 19.

Ia., Sac City—Sac Co., to E. W. Kolterman, 1805 Dodge St., Omaha, Neb., 111,000 cu.yd. grading at $0.2385 per cu.yd. and 9,000 cu. yd. at $0.30 per cu.yd.; to Ft. Dodge Culvert Co., Ft. Dodge, 5,040 ft. 12 in. culvert pipe at $0.567 per ft. and 840 ft. 15 in. culvert pipe at $0.67 per ft.; to Des Moines Steel Co., 421 S. W. 4th St., Des Moines, 40,000 lb. reinforcing bars $3.245 for ½ in. and $3.045 for ¾ in.; to T. Tobin, 909 Masonic Temple, Des Moines, 2 car loads lumber $33.75 per ft.; to Farmers Lumber Co., Sac City, 1 car load cedar piling at $0.1075 per ft.; to Lundgren-Reis Constr. Co., 65 College St., Des Moines, 90 ft. pony truss bridge, $8,626; to F. H. Christianson Constr. Co., Guthrie Center, one 26 ft. I-beam bridge, at $2,026 and one 32 ft. I-beam bridge $2,294; to C. J. Kramme, Ft. Dodge, 32 ft. I-beam bridge $2,430.

Kan., Atchison—Approximately 2,700 sq. yd. concrete surfacing 6th St. from Spring to Garden Sts., to Geiger & Rutherford, Leavenworth, and 12,900 sq.yd. brick on old macadam resurfacing Commercial St. from 9th to 13th Sts., to E. Grundeman, Natawaka.

Missouri—State Hy. Dept., Jefferson City, to A. A. Davis & Co., Gr. Exch., Oklahoma City, Okla., grading 3.205 mi. Jefferson City-Kansas City Rd., Johnson Co. $44,862, grading and 18 ft. concrete surfacing 23.614 mi. Jefferson City-Kansas City Rd., Johnson Co. $371,073; to D. C. Horton, Ft. Smith, Ark., grading and 18 ft. concrete surfacing 22.976 mi. Kansas City-Jefferson City Rd., Johnson Co. $323,751; to C. H. Atkinson Co., Watertown, S. D., grading and 9 ft. concrete paving 9.8 mi. road from Nethany north, Harrison Co. $115,623, grading and 18 ft. concrete surfacing 2.888 mi. St. Joseph-Hannibal Rd. $45,196, 3.134 mi. Monroe City-Hunnewell Rd. $49,932, both Marion Co., 2.615 mi. Lakenan-Hunnewell Rd. $47,545, 4.94 mi. Shelbine-Lakenan Rd. $72,976, 2.98 mi. road from Hunnewell east and west $71,207, all Shelby Co.; to Harrison Eng. & Constr. Corp., Kansas City, 4.685 mi. St. Louis-Springfield Rd. $103,861, 4.965 mi. road from Sullivan north and south, $106,462, both Franklin Co. 3.943 mi. Cuba-Bourbon Rd., $78,370, 4.708 mi. Bourbon-Sullivan Rd. $93,185, both Crawford Co., to Tibbetts & Tibbetts, Olathe, Kan. 4.928 mi. road from Gray Summitt east, Franklin Co. $135,282; to Dexter Constr. Co., Dexter, grading 2.083 mi. Hayti-Kennett Rd., Pemiscot Co. $11,807, 18 ft. gravel surfacing 4.634 mi. Harrisonville-Pleasant Hill Rd., Cass Co. $34,101, 12 ft. gravel surfacing 2.397 mi. road from Wilhelmina east, Dunklin Co. $15,120; to Roy Tanner Paving Co., Tulsa, Okla., grading and 9 ft. concrete paving 4.898 mi. Albany-Stanberry Rd., Gentry Co. $71,388; to Richmond Constr. Co., Advance, 12 ft. gravel surfacing 2.178 mi. road from Malden west, Dunklin Co. $18,886; to Easley Bros., Aurora, 16 ft. gravel surfacing 1.135 mi. Fairplay-Bolivar Rd., Polk Co., $10,201; to Kiefner & Geile, Perryville, 18 ft. gravel surfacing 4.811 mi. road from Gallatin east, Daviess Co. $16,442, to H. A. Worman, Perryville, 3.939 mi. road from Mexico east, Audrain Co. $34,547, to B. D. McCally & Son, Renssleer, Ind., 4.315 mi. Harrisonville-Pleasant Hill Rd., Cass Co. $35,118; to Lamoreaux Bros., Omaha, Neb., 30 ft., grading 7.56 mi. Grant City-Sheridan Rd., Worth Co. $60,308, to J. K. McClarrin, Alexandria, 3.54 mi. road from Macon east, Macon Co. $9,327, to Land Constr. Co., St. Joseph, 2.765 mi. Hamilton-Polo Rd., Caldwell Co. $26,524, to Vincennes Bridge Co., Vincennes, Ind., 0.35 mi. St. Joseph-Hannibal Rd., Shelby Co. $7,936, to Gray Constr. Co., Mt. Vernon, Ill., 3.934 mi. St. Joseph-Hannibal Rd., Macon Co. $19,719. Noted Mar. 12

Mo., Sedalia—Concrete paving 10,500 sq. yd. 16th St., to Bertman & Menefee, Sedalia, $2.235 per sq.yd.; 14,000 sq.yd. Barrett Ave., to M. O. Thomas, Sedalia, $2.15.

Tex., Commerce—Curbing, guttering and rock asphalt on 5 in. rein.-con. paving, approximately 9,000 yd. various streets, to W. H. Nichols & Co., 403 Mercantile Bank Bldg., Dallas. Engrs. est. $26,000.

Tex., Dallas—H. A. Winston, 1305 M St., concrete paving, curbing, guttering and sidewalks, new 72 acre residential district, to W. E. Childers Co., 115 Field St., approximately $85,000.

Okla., Cordell — Grading and concrete surfacing 10,200 sq.yd. Main St., to R. H. Baldwin, 109 East Grand Ave., Ponca City, $28,816. Engrs. est. $35,207. Noted Mar. 12.

Idaho — State Hy. Engineer, Boise, at Room 202 Pioneer Bldg., Lewiston, constructing 1.17 mi. North and South Highway, Chair Creek Sect., Federal Aid Project 9B, to Campbell Constr. Co., Sunnyside, $24,333.

Washington—State Hy. Comn., Olympia, paving 2 mi. State Rd. 1, Chehalis to Centralia, Lewis Co., to Philbrick & Nicholson, Tacoma, $93,607; grading, etc., 0.9 mi. State Rd. 1, from Everett north, Snohomish Co., to J. Weeks, Kirkland, $35,925. Noted Mar. 12.

Wash., Seattle—Curbing, guttering and paving North and East 40th St., 16,205 sq. yd. 7 in. and 36,895 sq.yd. 6 in. concrete, to Erickson Contg. Co., Henry Bldg., $138,731. Engrs. est. $156,854. Noted Mar. 19.

California—State Hy. Comn., Sacramento, concrete paving and widening with concrete shoulders, etc., 11.6 mi. highway between Stanislaus River and Turner station, San Joaquin Co., to J. F. Knapp, Turlock, $257,443.

California — State Hy. Comn., Sacramento, concrete shouldering 12.79 mi. highway between Woodland and Woodland Wye, Yolo Co., to Kaiser Paving Co., Amer. Bank Bldg., Oakland, $141,232; and concrete paving and widening 6.4 mi. highway between Merced River and Buhac (Atwater P. O.), Merced Co., to H. B. Peterson, Spreckels Bldg., San Diego, $139,367. Noted Mar. 12 and 26.

Calif., Huntington Beach — To G. M. Souter, 419 9th St., improving Palm Ave. between 7th and 17th Sts., 129,500 sq.ft. grade and 1.5 in. Topeka surface and 3.5 in. asphaltic concrete at $0.19 per sq.ft., 2,920 sq.ft. sidewalks $0.20, 1,270 ft. curb $0.70, etc. Noted Feb. 26.

Calif., Los Angeles — Grading 6 blocks Beacon St. between 1st and Santa Cruz Sts., 126,400 cu.yd. excav., to C. R. Butterfield, 410 6th St., San Pedro, $53,000. Engrs. est. $60,340.

Calif., Los Angeles — Grading, concrete and asphaltic concrete paving 3,600 ft. 1st St. between Harbor Blvd. and Pacific Ave., 40 ft., to Channel Constr. Co., Bank of Italy Bldg., $44,203. Engrs. est. $58,850.

Calif., Los Angeles — Grading, curbing, sidewalks, etc., on 97th St. between 5th and 11th Aves., to G. A. Constantine, I. W. Hellman Bldg. $62,920.

Calif., Los Angeles—To R. A. Wattson, 1026 McCadden Pl., improving Baxter St. between Park Dr. and Echo Ave., grading $15,000, 151,924 sq.ft. 5 in. concrete paving at $0.198 per sq.ft., sewers $23,000, etc., total $88,111. Engrs. est. $114,541.

Calif., Los Angeles — Concrete curbing, guttering, sidewalks and asphaltic concrete paving Marine Ave. between Anaheim and A Sts., to G. H. Oswald, 366 East 58th St., $59,560.

Calif., Los Angeles—Improving 3,000 ft. Washington and Evans Sts., to T. W. Oglesby, 423 Edgewood Rd., Santa Ana, $79,106. Engrs. est. $91,855.

Calif., Los Angeles — Bd. Pub. Wks., grading, curbing, concrete paving Victory Blvd., etc., to J. Martin, 789 Lyon St., $102,245. Engrs. est. $115,845.

Calif., Ontario—To Griffith Co., Railway Bldg., improving Sultana Ave. between State and Desseau Sts. and Sultana Ave. between 4th and A Sts., 1,765 ft. concrete and rock curb at $0.45 per ft., 341,841 sq.ft. 4 in. asphaltic concrete paving, etc. $0.144. Noted Dec. 25.

Calif., Pomona — For 6 in. concrete paving, 394,228 sq.ft. 5th Ave. between Garvey Ave. and city limits, to Fleming Constr. Co., 105 North Park Ave., $69,900.

Calif., Pomona—For 6 in. concrete paving Garey Ave., to H. Cornwall, 120 South Glendale Ave., Glendale, $37,500. Noted Mar. 12.

Calif., San Diego—Supervs. San Diego Co., to Pioneer Truck Co., 302 5th St., 2 in. on 3 in. Willite paving 104,728 sq.ft. 32nd and 33rd Sts. $23,982, 1.5 in. sheet asphalt on 4 in. concrete paving 79,920 sq.ft. 42nd St. $15,824; to D. H. Ryan, 1615 Fern St., 1.5 in. sheet asphalt on 4 in. concrete paving 263,547 sq.ft. Hawley Blvd. and Chester Pl. $53,682, 106,981 sq.ft. 36th St. $21,182, 149,960 sq.ft. 38th St. $29,692, and 196,037 sq.ft. 41st and 2nd Sts. $38,815, all foregoing streets in Normal Heights. Noted Mar. 5.

BRIDGE—ROANOKE, VA.

Following are lowest three bids opened by City Manager and City Council, March 11, for Thirteenth Street Bridge over Roanoke River and Norfolk & Western Ry., (A) W. W. Boxley, Roanoke, (awarded contract); (B) Atkisson-Williams, Johnson City, Tenn., (C) R. C. Churchill, Roanoke. The unit bids are as follows:

	A	B	C
3,800 cu.yd. excavation earth—wet or dry	$2.50	$2.50	$3.00
700 cu.yd. excavation rock—wet or dry	6.00	5.00	10.00
4,500 cu.yd. concrete, 1:2:4	17.50	21.00	20.50
4,500 cu.yd. concrete, 1:3:5	17.50	17.00	16.00
150 cycle concrete balus. and lamp posts, 1:2:4	35.00	30.00	35.00
700,000 lb. reinforcing steel	.06	.05	.06
60,000 sq.ft. carbor. rubbed surface finish	.05	.05	.05
3,000 sq.ft. bush hammered surface finish	.15	.30	.10
10,500 sq.ft. sidewalk and curb finish	.09	.10	.15
30,000 sq.ft. waterproofing	.28	.17	.18
1,300 lb. 16-oz. copper flashing	.35	.40	1.00
3,210 sq.yd. concrete sub-base—paving, 1:3:5	2.85	3.00	1.75
2,000 lin.ft. 2-in. metal conduit	.30	.60	.50
1,450 lin.ft. 6-way T.C. duct	1.00	.80	1.25
10 lin.ft. 6-in. cast iron soil pipe	.50	1.00	1.00
200 lin.ft. 6-in. vitrified T. C. sewer pipe	.50	1.00	1.00
4 cast iron catch basins	50.00	50.00	50.00
2 cast iron draw boxes	55.00	60.00	60.00
16 bronze lighting fixtures	175.00	200.00	156.25
4 bronze lanterns	545.00	600.00	575.00
2 bronze memorial tablets	825.00	1,600.00	1,000.00
2 bronze name tablets	300.00	600.00	500.00
Maintaining traffic, removal rubbish, etc. (lump sum)	7,500.00	3,000.00	4,000.00
Extended totals	$258,044	$259,590	$262,235

Buildings—Industrial

PROPOSED WORK

Mass., Brighton (Boston P. O.)—Plant—Electric Storage Battery Co., 720 Beacon St., Boston, having plans prepared by Bigelow & Wadsworth, 3 Hamilton Pl., Boston, 1 and 2 story, 135 x 274 ft., brick and stone, plain foundation, Ashford St., here. To exceed $100,000.

Mass., Cambridge (Boston P. O.)—Factory—Cambridge Rubber Co., 748 Main St., having plans prepared 4 story, 80 x 100 ft., rein.-con. and brick, plain foundation, Main and Windsor Sts. To exceed $40,000. J. R. Worcester & Co., 79 Milk St., Boston, consult. engrs.

Mass., Lowell—Plant—G. W. Cady & Sons Co., Western Ave., plans plant, Western Ave.. $49,000 or more. Engineer and architect not selected.

Mass., Wakefield — Plant — Town Bd. Selectmen, plans reconstructing gas plant. $100,000 appropriated. Engineer and architect not selected.

Mass., Worcester—Plant—Commonwealth Ice Co., 278 Harding St., plans reconstructing plant, in Shrewsbury Dist., recently destroyed by fire. $50,000 or more. Engineer and architect not selected.

Pa., Salina — Plant — Kier Fire Brick, Oliver Bldg., Pittsburgh, having plans prepared clay calcimining plant, here. $50,000. Schaffer Eng. Co., 800 House Bldg., Pittsburgh, engrs.

N. C., Andrews — Plant — State Legislature authorized city issue $50,000 bonds complete electric light plant.

O., Cleveland—Sub-Stations, etc.—Cleveland Electric Illuminating Co., Illuminating Bldg., c/o R. Lindsey, mgr., having plans prepared by E. J. Cook, engr. and archt., Illuminating Bldg., two 1 story, approximately 50 x 60 ft., brick, steel annd rein.-con., in Kinsman and Miles Ave. Dists. $50,000 each; also 1 and 2 story, rein.-con., brick and steel sub-station, warehouse and garage, West Park Dist., $150,000.

O., Cleveland—Factory—George L. Williams Co., c/o G. L. Williams, pres., 621 Johnson Ave., had plans prepared by J. W. Lowell, c/o owner, 1 story, 50 x 125 ft., and 2 story, 40 x 70 ft., brick and steel, 5200 Train Ave. $60,000.

O., Lorain—Sub-station—Ohio Pub. Serv. Co., Lorain, plans sub-stations along New York, Chicago and St. Louis R.R. tracks on east side, and along Baltimore and Ohio R.R. tracks at East 21st St. $250,000. A. H. Heitzler, vice-pres. and div. mgr.

Mich., Detroit — Bakery and Warehouse —Kroger Grocery & Baking Co., 4760 Merritt Ave., having plans prepared by J. G. Rastler & Co., 523 Detroit Savings Bank Bldg., 2 story, 235 x 355 ft., brick and steel addition, plain foundation, Merritt Ave.

Ill., Peru — Plant — City voted $90,000 bonds, rebuilding power plant.

Kan., Ft. Scott — Plant — Ft. Scott Tribune-Monitor having plans prepared by E. O. Brostrom, 623 Reliance Bldg., Kansas City, Mo., 2 story and part basement, 70 x 120 ft., rein.-con., brick and terra cotta. $50,000.

N. D., Dickinson—Plant—See "Unclassified under North Dakota."

Tex., Mirando City — Plant — Mirando City Oil Co. having plans prepared brick and steel refinery plant. $250,000. Private plans.

Tex., Victoria — Electric Light Plant — Election May 12, $65,000 bonds municipal electric light plant. J. L. Du Pree, city atty. Engineer and architect not selected.

Calif., Merced — Plant — Amer. Canned Products Co., A. Moore, pres., 756 South Bway., Los Angeles, plans probably concrete canning plant. $100,000 incl. equipment.

Calif., Oakland — Factory — Standard Biscuit Co., 429 Clay St., having plans prepared by W. E. Schirmer, Thayer Bldg., 2 story, 75 x 100 ft., brick, 5th St. near Webster St. $40,000.

Calif., San Bernardino—Shop—Atchison, Topeka & Santa Fe Ry. Co., Kerckhoff Bldg., Los Angeles, soon takes bids 50 x 275 ft., rein.-concrete shops, San Bernardino St., here. $165,000. R. B. Baep, Kerckhoff Bldg., Los Angeles, ch. engr. coast line.

Que., Chicoutimi—Power Plant—Chicoutimi Electric Co., having plans prepared hydro-electric power plant, and concrete dam, etc. $500,000. H. Cimon, 144 Grand Allee, Quebec, engr.

Que., Grand Mere — Plant — Dominion Electric Heating Co., 140 Amherst St., Montreal, plans 2 story, 100 x 100 ft. plant, here. $75,000.

Que., Grand Mere — Plant — Fairchild Aerial Surveys of Canada, Ltd., Grand Mere, plans plant. $150,000.

Que., St. Anne de Beaupre—Power Plant —Energie Electric de Riviere des Chiens, plans power plant. $50,000.

Ont., Coniston—Plant—Mond Nickel Co. plans sulphuric acid plant. Private plans.

Ont., Otterville — Factory — Hyslop & Sons, Burlington, plan new factory. $40,000.

BIDS DESIRED

Mass., Boston — Sub-station — Edison Electric Illuminating Co., 39 Boylston St., taking bids 5 story, 30 x 90 ft., rein.-con. and brick, plain foundation, Canton St. $100,000. Bigelow & Wadsworth, 3 Hamilton Pl., archts.

Mass., Chelsea—Factory—Panco Rubber Co., Highland St., taking bids 1 story, 50x80 ft., brick and steel addition, Highland St. Schein & Levine, 508 Pemberton Bldg., Boston, archt. Noted Feb. 19.

Mass., Danvers—Fire Station, etc.—Fire Dept., taking bids 2½ story and basement, 35 x 45 ft., and 14 x 15 ft. rein.-con. and brick fire station and machine repair shop, Florence and High Sts. Stebbins & Watkins, 164 Federal St., Boston, archts.

Mass., Newtonville (br. of Boston)—Repair and Service Garage—Newton Motor Sales Co., West Newton Sq., Newton, taking bids 1 and 2 story, 30 x 70 ft., and 60 x 105 ft., rein.-con. and steel, plain foundation, Washington St., here. $50,000. D. J. McDonald, 77 Summer St., Boston, engr. and archt. Noted Mar. 12.

Conn., New Haven—Dairy—Kipp Dairy Co., 195 Chatham St., taking bids 2 story, 50x100 ft., concrete, brick and stone, plain foundation, Chatham St. $40,000. R. W. Fabian, 147 Bradley St., archt.

N. Y., Long Island City—Housing Station —Apr. 7, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., housing station, 62nd Rd. and 94th St.

Pa., Brackenridge—Foundry—Allegheny Steel Co. will build 1 story, 76 x 96 ft., steel and brick foundry. Work will be done by separate contracts. $40,000. Private plans.

Pa., Chambersburg—Plant—H. J. Heinz Co., 1026 Progress St., Pittsburgh, will build 1 and 2 story, brick and steel plant, here. Work will be done by separate contracts. $400,000. Private plans.

Pa., Chester — Dye House — Aberfoyle Mfg. Co., c/o W. T. Galey, vice pres., 4th and Morton Sts., will build 3 story and basement, 140 x 340 ft. dye house brick and steel, plain foundation. Work will be done by separate contracts. E. Perot, 1211 Arch St., Phila., archt.

Pa., McDonald—Factory—Apr. 13, by Pittsburgh File & Steel Co., 1 story, 45 x 360 ft., brick on tile and steel factory. $100,000. F. McCrooks, 541 3rd Ave., Pittsburgh, archt. Noted Feb. 19.

Pa., Phila.—Plant—Apr. 7, by Ballinger Co., archts., 12th and Chestnut Sts., 1 story, 209 x 491 ft., brick and steel, plain foundation, Tioga and Richmond Sts., for D. Weber & Co., 5th and Locust Sts.

Pa., Phila. — Service Station — A. E. Jawer, 4853 Parkside St., will build 2 story and basement, 120 x 97 ft., rein.-con. and brick, plain foundation, Ludlow St. west of 60th Sts. $50,000. Work will be done by separate contracts. J. F. Clark, 23 South 16th St., archt.

Pa., Phila.—Factory—J. F. Clark, archt., 23 South 16th St., taking sub bids 1 story, 24 x 60 ft. and 2nd story 69 x 97 ft. additions, brick, plain foundation, for Columbia Steel Equipment Co., 3rd and Annsbury Sts.

Mich., River Rouge—Plant—Ford Motor Co., Highland Park (Detroit P. O.), taking bids and opens same about Apr. 10, 1 story, 160 x 240 ft., 85 ft. high, concrete, brick and steel open hearth building, plain foundation, here. A. Kahn, 1000 Marquette Bldg., Detroit, archt. Noted Mar. 8.

Ill., Chicago—Factory and Sales—April 1, by Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., 14 story and basement, 172 x 420 ft., rein.-con. and brick, caisson foundation, North Water St., for Hibbard, Spencer, Bartlett Co., 302 North State St. $4,000,000.

Tex., Dawson—Seed House—Dawson Oil Mills taking bids seed house and addition to plant. $45,000. Engineer and architect not announced.

CONTRACTS AWARDED

Mass., Athol—Factory—Wilcox Novelty Co., 256 Main St., 3 story, 40 x 200 ft., brick and steel, plain foundation, Main St., to Taylor-Wheeler Corp., Starrett Bldg. Archts. est. $125,000. Noted Mar. 19.

Mass., Boston — Repair and Service Garage—A. B. Wells, c/o D. Somes, archt., 240 Boylston St., 2 story and basement, 94 West Cedar St., to Somers & Drisko, 168 Dartmouth St. Archts. est. $60,000.

Conn., Hamden—Factory—United Smelting & Aluminum Co., Edmond St., 1 story, 110x140 ft., brick, plain foundation, Edmond St., to L. Edgar, 17 White St. Archts. est. $40,000.

Pa., Phila.—Manufacturing—A. Taylor Co., 410 Commerce St., 2 story and basement, 100 x 100 ft., rein.-con., plain foundation, D and Pike Sts., to Wark Co., 1600 Walnut St. Archts. est. $60,000.

Md., Baltimore — Shop — Bd. Awards, 1 story, brick repair shop, Key Highway and Webster St., to DeCou & Davis, 8 East Mulberry St., $85,989. Noted Mar. 26.

La., Shreveport—Plant—Independent Ice Co., Shreveport, plans general contract rein.-con. and brick addition to ice plant, to Hansen-Worden Co., Shreveport, approximately $40,000.

O., Cleveland — Laundry — West End Wash Laundry Co., c/o A. L. Salzer, 3205 West 98th St., 1 and 2 story, 83 x 100 ft., brick and steel, 10,610 Madison Ave., to Mitzel-Shields Co., Rose Bldg. Archts. est. $40,000.

O., Cleveland — Factory — Cleveland Piston & Mfg. Co., 2301 Scranton Rd., 1 story, 60 x 84 ft., brick and timber addition, to H. G. Slatmyer & Son Constr. Co., 203 Lakeside Ave., N. W. Archts. est. $40,000.

O., Cleveland — Sub-Station — Cleveland Electric Illuminating Co., J. Wolf, Illuminating Bldg., 2 story, 46 x 54 ft., brick, steel and concrete, 1953 East 105th St., to Natl. Concrete Fireproofing Co., Union Mortgage Bldg. Archts. est. $60,000. Noted Mar. 26.

Okla., Oklahoma City—Plant—New State Ice Co., 2 West 3rd St., general contract 1 story, 130x140 ft., rein.-con. and brick, plain foundation, to Campbell & Price, 605½ West Main St. Archts. est. $100,000. Noted Jan. 15.

Okla., Oklahoma City — Plant — New State Ice Co., 2 West 3rd St., one story, 130 x 1,240 ft., rein.-con. and brick, Poplar St., to Campbell & Price, 605½ West Main St. Archts. est. $100,000.

Calif., Holtville—Plant—Imperial Ice & Delivery Co., 1 story, 60 x 90 ft. ice manufacturing plant, 5th and Walnut Sts., to Gay Eng. Corp., 2650 Santa Fe Ave., Los Angeles, $50,000. Noted Jan. 15.

Calif., Los Angeles—Factory—Albertson Motor Car Co., 1540 South Figueroa St., 2 story, 101 x 300 ft. factory, and 17 x 300 ft. loading dock, both rein.-con., 50th St. and Long Beach Ave., to C. T. McGrew & Son, 134 Ocean Ave., Long Beach, $200,000. Noted Mar. 19.

Calif., Oakland—Factory—McKee Greenwood Sales Book Co., Spokane, Wash., 1 story, brick, Livingston St. near King St., to Austin Co. of California, 214 Kearny St., San Francisco, approximately $40,000.

Man., Winnipeg—Plant—Harris Abbatoir Co. Ltd., Union Stock Yards, Toronto, Ont., general contract concrete, brick and steel packing plant, to J. McDiarmid Co. Ltd., Myrtle and Winnipeg Aves., structural steel, to Vulcan Iron Wks., Point Douglas. Total est. $400,000.

Buildings—Commercial

PROPOSED WORK

Mass., Allston (Boston P. O.)—Store and Office—D. Rubin, 333 Washington St., Boston, plans store and office building, 1243 Commonwealth Ave., here. To exceed $150,000. Engineer and architect not selected.

Mass., Arlington (Boston P. O.)—Store and Office—W. J. Conway, c/o Muller & Co., 55 Kilby St., Boston, plans stoer and office building, about 12,000 ft. floor space, Massachusetts and Lockland Aves. $160,000. Engineer and architect not selected.

Mass., Boston—Apartment—Ninety Commonwealth Ave., Inc., c/o G. N. Jacobs, archt., 4 Park St., having preliminary plans prepared 8 story and basement, 60x100 ft., brick and stone, plain foundation, 90 Commonwealth Ave. $300,000.

Mass., Gloucester — Store and Office — Shikes & Long, 103 Hemenway St., Boston, plans 2 story and basement, store and office building, Main St. $150,000. Engineer and architect not selected.

Mass., Jamaica Plain (Boston P. O.) — Nurses' Home—Faulkner Hospital, C. J. Nichols, pres., having preliminary plans prepared by O. A. Thayer, 89 Franklin St., Boston, 4 story and basement, 40 x 130 ft., brick and stone, plain foundation. $160,000.

Mass., Malden — Theatre — Ramsdell Bros., H. Ellenberg, & F. Green, Orpheum Theatre, plans theatre, Dartmouth St. $400,000. Private plans.

Mass., Needham — Theatre and Store — Murdock & Simon, Chestnut St., having plans prepared by J. Kelly, 20 Beacon St., Boston, 1 and 2 story and basement, brick and stone, Great Plain Ave. $150,000.

Mass., Quincy (Boston P. O.)—Hospital —Pub. Dept. plans addition to city hospital. $150,000. Engineer and architect not selected.

Buildings—Commercial (Continued)

R. I., Providence—Armory—State Special Com. State House, plans armory, north Main St. $150,000 or more. W. G. Richards, Exchange St., archt.

Conn., Meriden—Lodge—Meriden Lodge of Elks, D. J. Donovan, chn., 120 East Main St., raising funds for club, with swimming pool, etc. Engineer and architect not selected.

Conn., Stamford — Warehouse — W. Schaefer & Son, 30 Worth St., having plans prepared by Moores & Dunford, 110 East 42nd St., New York City, 4 story and basement, 50 x 100 ft., brick and steel, plain foundation, Worth St. $150,000.

N. Y., Brooklyn—Clubhouse—B. P. O. E. 22, Brooklyn Lodge, 150 South Oxford St., A. C. Brophy, chn. building com., takes bids about May 1, 12 story, 158 x 162 x 186 ft., brick, steel and stone, plain foundation, Boerum Pl., Schermerhorn and Livingston Sts. $4,500,000. McKim, Mead & White, 101 Park Ave., New York City, archts. Noted Mar. 12.

N. Y., Brooklyn — Hotel — B. Sackheim, 166 Montague St., archt. and engr., preparing plans brick, steel and stone, plain foundation, Clinton St. $1,000,000. Owner's name withheld.

N. Y., Brooklyn—Nurses Training School —Brownsville and East New York Hospital, 11 Hegeman Ave., soon takes bids 4 story, brick, steel and stone, plain foundation, Albemarle Rd. $200,000. Cohn Bros., 361 Stone Ave., archts. and engrs.

N. Y., Buffalo — Warehouse — Buffalo Wholesale Hardware Co., 317 Washington St., plans 185 x 227 ft., Perry St. $200,000.

N. Y., Coney Island (Brooklyn P. O.)—Hotel—Amer. Hotel Co., 25 West 45th St., New York City, having plans prepared by G. B. Post & Sons, 101 Park Ave., New York City, 17 story, brick, steel and stone, plain foundation, Boardwalk and 29th St., here.

N. Y., New York — Apartment — S. F. Oppenheim, archt. and engr., 110 East 31st St., preparing plans 5 story, brick, steel and stone, plain foundation, University Ave. $225,000. Owners name withheld.

N. Y., New York—Apartment—Washington Sq. Holding Co., c/o Deutsch & Schneider, archts., 35 Maiden Lane, having plans prepared 15 story, 50 x 100 ft., brick, steel and stone, plain foundation, 32 Washington Sq. W. $850,000.

N. Y., New York—Hospital—Cranleigh, Inc., c/o Warren & Wetmore, archts., 16 East 47th St., having plans prepared 9 story, 85 x 155 ft., brick, steel and stone, plain foundation, 159 East 90th St. $400,000.

N. Y., New York—Loft—M. Stein, c/o J. M. Felson, archt. and engr., Fisk Bldg., Bway. and 57th Sts., having preliminary plans prepared brick, steel and stone, plain foundation, 330 West 37th St. $750,000.

N. Y., New York—Office—Lerner Blouse Corporation, c/o C. N. Whinston & Bro., archts. and engrs., 2 Columbus Circle, having plans prepared 18 story, 50 x 100 ft., brick, steel and stone, plain foundation, Trinity Pl.

N. Y., New York — Office — W. F. Rudolphy, c/o Block & Hess, archts. and engrs., 18 East 41st St., soon takes bids brick, steel and stone, plain foundation, Lexington Ave. $200,000.

N. J., New Brunswick—Office—Harrison Impvt. Co., 2108 Harrison Ave., New York City, plans 4 story office building, George and Albany Sts. $350,000. Engineer and architect not selected.

N. J., Trenton — Hospital — St. Francis Hospital, Chambers St., plans addition. $500,000. H. B. Costill, 371 Hamilton Ave.; chn. building com. Engineer and architect not selected.

Pa., Phila. — Apartment — E. McShane, c/o Merrill Co., 312 South Broad St., having plans prepared by E. L. Rothschild, Bankers Trust Bldg., 13 story and basement, 36 x 100 ft., brick and steel, plain foundation, 37th and Chestnut Sts.

Pa., Phila.—Hotel—B. Shulman, archt., 1722 Arch St., preparing preliminary plans 8 story and basement, approximately 900 to 1,000 room hotel. Owner's name withheld.

Pa., Phila.—Office—Mutual Trust Co., 4th and Chestnut Sts., having preliminary plans prepared by Heacock & Hokenson, 1211 Chestnut St., and Ballinger Co., 12th and Chestnut Sts., 18 story and basement, brick and steel, plain foundation, Sydenham and Walnut Sts.

Pa., Pittsburgh—Mercantile—Associated Furniture Store, 318 Oliver Ave., having plans prepared by W. E. Snaman, 1116 Empire Bldg., 5 story and basement, 30 x 241 ft., brick, steel and terra cotta, 321-23 5th Ave. $300,000.

Pa., Pottsville—Masonic Temple—Pulaski Realty Co. having plans prepared by Muhlenberg Bros., 511 Penn St., Reading, 5 story and basement, 50 x 103 ft., brick, stone and steel, plain foundation. $175,000.

Va., Richmond—Theatre—Lowes, Inc., State Theatre Bldg., 45th St. and Bway., New York City, having plans prepared by T. W. Lamb, archt. and engr., 644 8th Ave., New York City, theatre, here. $750,000.

N. C., Albermarle—Court House and Jail —State Legislature authorized Stanley Co. to issue $250,000 bonds for court house and jail. R. N. Fwir, Albermarle, chn. Bd. Comrs. Stanley Co.

N. C., Asheville—Flatiron—L. B. Jackson and C. N. Malone plan 8 story and basement, 100 room flatiron building, Battery Park. $300,000.

N. C., Asheville—Hotel—La Fayette Development Co. plans hotel known as Chateau La Fayette, on Stradley Mountain. $1,000,000. Wiggins Hotel Co., lessee.

N. C., Greensboro—Hotel—Greensboro Bank & Trust Co. plans 14 story and basement, 72 x 150 ft. hotel. $900,000.

N. C., Hendersonville — Bank and Office —C. F. Toms, Jr., soon takes bids bank and office building. $150,000. E. Stillwater, Hendersonville, archt.

Fla., Sarasota—Theatre—A. B. Edwards, plans theatre, 7th and Pineapple Sts. $160,000. Universal Film Exch. of New York, 1600 Bway., New York City, lessee.

La., New Orleans—Hospital—Bd. Administrators Charity Hospital, Tulane and Villere Sts., having plans prepared by Favrot & Livaudais, Hibernia Bank Bldg., addition to hospital, incl. nurses home, quarters for internes, etc. $150,000 or more.

La., New Orleans—Hotel and Garage—Guaranty Realty Co., 910 Gravier St., having plans prepared by J. Scott Joy, 2001 West Pershing Rd., Chicago, Ill., 10 story hotel, and 5 story garage, University Pl. and South Rampart St. $1,000,000.

La., New Orleans—Office—Syndicate composed of E. M. Loeb, 618 Magazine St., W. B. Spencer, 321 St. Charles St., A. F. Commagere, New Orleans, and J. Scott Joy, 2001 West Pershing Rd., Chicago, Ill., had plans prepared by J. Scott Joy, 2001 West Pershing Rd., Chicago, Ill., 16 story, office building, Baronne and Common Sts. $1,250,000.

Tenn., Nashville—Lodge and Office—Independent Order of Odd Fellows soon takes bids 12 story and basement, lodge and office building, 119 7th Ave. N. $1,000,000. W. M. Hannah, Memphis, secy. Noted Jan. 8.

O., Cleveland Heights (Warrensville P. O.)—Commercial and Theatre—Cedar Lee Realty Co., C. D. Simmons, pres., Fidelity Mortgage Bldg., Cleveland, had plans prepared by E. P. Bock, 9501 Wade Park Ave., Cleveland, 2 story and basement, 120 x 120 ft., brick, steel and concrete, Lee and Cedar Rds., here. $175,000.

O., Dayton — Apartment Hotel — J. E. Lowes, West 1st St., plans 10 story, 120 x 140 ft., rein.-con. and brick, 1st St. $300,000. Private plans.

O., East Liverpool — Mercantile — T. V. Milligan, plans 3 story and basement, 46 x 130 ft. mercantile building, and 2 story, 22½ x 48 ft., brick and concrete warehouse, East 5th St. $150,000-$175,000.

Mich., Detroit—Garage—Postal Station Building Co., 341 Postal Sta. Bldg., having preliminary plans prepared by Bass-Knowlton & Co., 801 Hume-Mansur Bldg., Indianapolis, Ind., 2 story and basement, rein.-con. garage. $200,000.

Mich., Detroit—Hotel and Recreation—C. A. Gable and associates, Detroit Hockey Club, c/o G. E. Graves, archt., 232 John R St., having plans prepared 2 and 4 story, irregular section 80 x 120 ft. to contain natatorium, rein.-con., brick and steel, plain foundation, incl. hotel and recreation center, convention hall, hockey rink and swimming pool, Woodward Ave. $2,000,000.

Mich., Detroit—Office—C. H. Harrison, 22822 Woodward Ave., making plans 8 story and basement, 80 x 100 ft., rein.-con., brick and steel, plain foundation, Woodward Ave. Engineer and architect's names withheld.

Mich., Detroit—Office and Theatre—Detroit Metropolitan Corp., Union Trust Bldg., having plans prepared by C. W. and G. L. Rapp, 190 North State St., Chicago, Ill., 12 story (ultimately 17 story) and basement, 150 x 220 ft., rein.-con., brick and steel, Bagley Ave. $4,000,000.

Mich., Detroit—Theatre—D. T. Nederlander, 11 Campus Martius, having plans prepared by Crane & Kiehler, 542 Griswold St., 1 and 2 story and part basement, 240 x 270 ft., brick and steel, plain foundation, Woodward Ave. $250,000. Noted Feb. 26.

Mich., Mt. Clemens—Sales and Service—H. T. Millar, archt., 321 Lightner Bldg., Detroit, prepared plans 1 and 2 story, 110 x 250 ft., rein.-con. and brick, plain foundation. $150,000. Owners name withheld.

Mich., Negaunee—Community—Election Apr. 6, $150,000 bonds remodeling present building or constructing new community house. Engineer and architect not selected.

Ill., Chicago—Apartment Hotel—C. H. Bramwell, Hotel Drake, purchased site and plans 20 story and basement, 70 x 160 ft. apartment hotel, Lake Shore Dr. $1,500,000. Engineer and architect not selected.

Ill., Chicago—Club—Midland Club, 25 North Dearborn St., had sketches made by P. Gerhardt, 64 West Randolph St., 25 story, basement and sub-basement, 90 x 190 ft., rein.-con., brick, steel and stone, caisson foundatino, 168 West Adams St. $4,000,000.

Ill., Chicago—Hospital—Schmidt, Garden & Martin, engrs. and archts., 104 South Michigan Ave., soon takes bids 4 story and basement, 100 x 218 ft., rein.-con., brick and stone, plain foundation, for Swedish Convent Hospital, 2749 Foster Ave. $250,000.

Ill., Peoria—Court House—Peoria Co. election Apr. 21, $1,250,000 bonds for court house.

Ill., Peoria—Market—Election Apr. 21, $150,000 bonds for 1 story and basement, rein.-con. market building. Engineer and architect not selected.

Wis., Beaver Dam — Hotel — Wisconsin Hotel Co., D. C. Sargent, pres., 196 3rd St., Fond du Lac, having plans prepared by E. A. Stubenrauch, 629 North 8th St., Sheboygan, 5 story and basement, 56 x 140 ft., brick, tile and concrete, plain foundation. $150,000.

Wis., Kenosha—Store and Office—J. M. Pitts, 252 Park St., plans 2 story and basement, 102 x 125 ft., brick and concrete, plain foundation, Howland Ave. $150,000. Engineer and architect not selected.

Wis., Madison—Garage—A. L. Seidenschwartz, archt., 290 3rd St., Milwaukee, soon takes bids 2 story and part basement, 122 x 134 ft., brick and concrete, plain foundation, West Johnson St., here, for Fox Motor Sales Co., 105 East Doty St. $150,000.

Wis., Milwaukee—Business and Apartment — A. Kahn, 2707 Wells St., having plans prepared by M. F. Pfaller, 712 28th St., 3 story and basement, 120 x 132 ft., brick and tile, plain foundation, Wells St. $200,000.

Wis., Milwaukee—Business—A. Fox & Co., 511 Chestnut St., plans 3 story and basement, brick and tile, plain foundation, State St. $200,000. Engineer and architect not selected.

Wis., Milwaukee—Clubhouse—Milwaukee Eagles Aerie 137, T. Manning, 82 Wisconsin St., chn. building com., having plans prepared by R. B. Williamson, 405 Bway., 3 story and basement, 104 x 212 ft., brick and concrete, plain foundation, Grand Ave. $500,000.

Wis., Milwaukee—Hospital—Milwaukee Co., H. Franke, 4419 North Ave., chn. building com., plans Emergency Hospital and Dispensary, rein.-con. and stone, plain foundation, Grand Ave. $300,000. Engineer and architect not selected.

Wis., Milwaukee—Hospital—Milwaukee Hospital, 22nd and Cedar Sts., having plans prepared by Chas. Shepherd & Clas, 445 Milwaukee St., 5 story and basement, 46 x 150 ft., brick and concrete addition, plain foundation, Cedar St. $200,000.

Wis., Milwaukee—Hotel—M. Tullgren & Sons, archts., 425 East Water St., soon take bids 8 story and basement, 120 x 122 ft., rein.-con. and brick addition, plain foundation, Juneau Ave., for Hotel Astor Co., Juneau Ave. and Marshall St.; excavation awarded to H. Wussow, 183 Concordia Ave. Total $750,000. Noted Feb. 12.

Wis., Milwaukee — Office — Milwaukee Electric Railway & Light Co., 2nd and Sycamore Sts., having plans prepared by Judell & Bogner, 445 Milwaukee St., altering office building, Sycamore St. $150,000.

Wis., Milwaukee—Temple—Tripoli Temple, Nobles of Mystic Shrine, c/o L. Schneller, 399 4th St., chn. building comn., having sketches made 3 story and basement, 100 x 122 ft., brick, stone and concrete temple. $500,000. Engineer and architect not selected.

Kan., Lansing—Jail—State Bd. Administration, Capitol Bldg., Topeka, having preliminary plans prepared by C. M. Routledge, Capitol Bldg., Topeka, 3 story and basement, 66 x 232 ft., rein.-con., brick and stone cell house on prison grounds, here. $150,000.

Kan., Lawrence—Memorial—City Clerk takes bids in May, 3 story and basement, brick memorial building. $250,000. Pond & Pond, 6 North Michigan Ave., Chicago, archts. Noted Feb. 26.

S. D., Watertown—Office—Dakota Life Insurance Co., E. L. Bramble, secy., having plans prepared by U. L. Freed, Watertown, 5 story and basement, 85 x 200 ft., rein.-con., brick and stone addition. $150,000.

Mo., Clayton — Courthouse, etc. — St. Louis Co., c/o County Court, election Apr. 28, $750,000 bonds, 2 story and basement, rein.-con., brick and stone, court house and jail. Klipstein & Rathman, Chemical Bldg., St. Louis, archts. Noted Mar. 19.

Mo., Kansas City—Business and Office—J. C. Wirthman, 3100 Troost Ave., Kansas

Buildings—Commercial (Continued)

City, having sketches made by C. A. Smith, 800 Finance Bldg., 5 story, rein.-con. and brick addition. $150,000.

Mo., Kansas City — Dance Hall — E. Kuhn, 12 Gayety Bldg., having plans prepared by McKecknie & Trask, 224 Bd. Trade Bldg., 1 story, basement and mezzanine, 115 x 196 ft., brick, steel and terra cotta dance hall. $250,000.

Mo., Kansas City — Office and Club — Ararat Temple Building Assn. plans 4 story and basement, office and club, 11th and Central Sts. $750,000. Engineer and architect selected soon.

Tex., Brownsville—Hotel—J. Dickinson Farm Mortgage Co., plans 7 (or more) story and basement, 150 room, rein.-con., brick and stone, plain foundation. Engineer and architect not selected. $365,000 bonus raised by citizens of Brownsville and donated to above owner for same.

Tex., Brownsville — Hotel — R. E. Lee Hotel, San Antonio, plans tourist hotel, here. $175,000. Engineer and architect not announced.

Tex., Brownsville—Hotel—L. James, et al having plans prepared by Kelwood Co., archts. and engrs., Travis Bldg., San Antonio, 7 or more story and basement, rein.-con., brick and stone, plain foundation. $400,000.

Tex., Dallas—Apartment—H. T. McQueen, Merchants Bank Bldg., having plans prepared by J. A. Boyle, Melba Theatre Bldg., 3 story and basement, 60 room, brick and tile, Oak Lawn and Ralwin Sts. $250,000.

Tex., Dallas—Business and Warehouse—Texas Drug Co., T. Coulson, pres., 900 Commerce St., had plans prepared by Whitson & Dale, 1009 Southwestern Life Bldg., and soon takes bids 3 story and basement, 104 x 150 ft., brick and rein.-con., Marilla and Browder Sts. $200,000.

Tex., Denton—Hotel—R. B. Pender, plans 5 story and basement, 80 room, rein.-con., brick, stone and steel hotel. $175,000. Engineer and architect not announced.

Tex., Ft. Worth — Hotel — Union Gospel Mission, 15th and Houston St., having plans prepared by O. H. Atkinson, W. T. Waggoner Bldg., 6 story and basement, brick, and stone. $150,000.

Tex., Ft. Worth — Warehouse — Monnig Dry Goods Co., 1302 Main St., and Sanguinet, Staats & Hedrick, archts., 1st Natl. Bldg., soon take bids 6 story and basement, 72 x 200 ft., rein.-con. and brick, plain foundation, 15th and Main Sts. $250,000.

Tex., Kerrville — Hospital — Negro Churches raising $350,000 funds 4 or more story and basement, brick, plain foundation. Private plans under way. J. A. Tyler, Kerrville, pastor.

Tex., Taft — Warehouse, etc. — Pierce Petroleum Corp., 305 South Medina St., San Antonio, making plans concrete and brick warehouse, also number steel oil tanks, White Point Blvd., here. $150,000 or more. Private plans.

Tex., San Marcos—Administration—San Marcos Baptist Academy, c/o M. L. Kokernut, San Antonio, plans administration building. $150,000. Engineer and architect not announced.

Okla., Ardmore—City Hall—City making preliminary plans 4 story and basement, 100 x 140 ft., rein.-con. and brick city hall and police station, plain foundation, Carter St. $250,000. Noted Mar. 6. S. Mathews, Ardmore, engr. Architect not selected. Noted Mar. 6.

Okla., Oklahoma City—Club—Oklahoma City Athletic Club, J. A. Werme, pres., c/o Midwest Steel Co., 1st Natl. Bank Bldg., making preliminary plans 8 story and basement, 50 x 140 ft., rein.-con., plain foundation, 3rd St. $350,000. Engineer and architect not selected.

Okla., Ponca City—Hospital—Committee of Citizens, J. S. Alcorn, chn., c/o Marland Oil Co., having preliminary plans prepared 100 room, rein.-con., brick and stone hospital. $250,000.

Nev., Reno—Store and Hotel—G. Wingfied, 2324 Pacific Ave., San Francisco, Calif., plans 2 or 3 story (ultimately 5 story), fireproof, Virginia St. and Island Ave., here. $300,000.

Wash., Aberdeen — Lodge — C. Haynes, archt., Aberdeen and A. H. Albertson, archt., Henry Bldg., Seattle, take bids on about Apr. 27, 3 story 130 x 150 ft., concrete, Bway. and Wishkah Sts., for Aberdeen Order of Elks. $200,000.

Wash., Seattle—Apartment—Vance Lumber Co., Stewart Bldg., had plans prepared by C. W. Voorhees, Eitel Bldg., remodeling present 3 story and basement, 120 x 246 ft. building into apartment, concrete, steel and terra cotta, concrete pile foundation, Queen Anne Ave. and Mercer St. $250,000.

Wash., Seattle — Hotel — Interstate Investment Co., Billings, Mont., represented here by J. Davis Co., 807 2nd St., having plans prepared by Stuart & Wheatley, Walker Bldg., 6 story and basement, rein.-con., 8th and University Sts. $300,000.

Wash., Seattle—Store—Bon Marche, 2nd and Pike Sts., having plans prepared by J. Graham, Dexter Horton Bldg., 6 story, basement and sub-basement, block square, rein.-con., 3rd and Pine Sts. $2,000,000.

Wash., Tacoma — Apartment — F. F. Travis, 512 North 2nd St., making plans and takes bids about Apr. 8, 6 story and basement, 100 x 130 ft., brick, North 2nd and Tacoma Sts. $200,000.

Wash., Tacoma—Apartment—G. W. and A. S. Johnson, having plans prepared 4 story and basement, 75 x 130 ft. rein.-con., 6th and Fawcett Sts. $250,000.

Calif., Burlingame — Lodge — Masonic Lodge of Burlingame plans 3 story and basement, fireproof, probably rein.-con., Primrose Rd. $200,000. Engineer and architect not selected.

Calif., Hanford—Bank and Office—Bank of Italy, Powell and Eddy Sts., San Francisco, having plans prepared by H. A. Minton, Bank of Italy Bldg., San Francisco, 75 x 135 ft., rein.-con., Irwin and 7th Sts.

Calif., Hermosa Beach — Hotel — Apartment—J. F. Guyton, Bradbury Bldg., Los Angeles, plans 3 story, 50 x 100 ft., hotel apartment, Pier Ave. and The Strand.

Calif., Los Angeles—Garage and Office—Pacific Mutual Bldg. Co., 523 West 6th St., having plans prepared by Schultze & Walker, Pacific Mutual Bldg., 3 story, 70 x 338 ft., steel and concrete addition, West 6th St. $500,000 or more.

Calif., Los Angeles — Hospital — Frank Wiggins Memorial Hospital Assn., c/o Walker & Eisen, archts., Great Republic Life Bldg., having plans prepared rein.-con. hospital, 1,000 bed capacity, 1st and Alvarado Sts.

Calif., Los Angeles—Hotel—H. G. Corwin, archt., 129 West Washington St., preparing preliminary plans 5 story and basement, 95 x 170 ft., brick hotel. $275,000. Owner's name withheld.

Calif., Los Angeles—Hotel and Store—Business Dist. Development Co., Merchants Natl. Bank Bldg., having plans prepared by F. Whittlesey, 6533 Hollywood Blvd., 6 story and basement, 325 room, rein.-con., 7th St. and Gladys Ave. $325,000.

Calif., Los Angeles — Store and Loft — Army and Navy Store, c/o Curlett & Beelman, archts., Union Bank Bldg., having plans prepared 6 story and basement, 85 x 130 ft., rein.-con., Los Angeles St. near 6th St. $175,000.

Calif., Oakland—Office—Franklin Land Co., c/o H. S. Robinson, Oakland Bank Bldg., plans fireproof, on 100 x 100 ft. site, 14th and Franklin Sts. To exceed $150,000. Engineer and architect not selected.

Calif., Sacramento—Depot—Southern Pacific R.R. Co., 65 Market St., San Francisco, having revised plans prepared by Bliss & Fayville, Balboa Bldg., 3 story, brick and rein.-con., North I St. Former bids rejected. Noted Mar. 26.

Calif., Sacramento — Theatre, etc. — Mooser & Bories, c/o W. Mooser, archt., Nevada Bank Bldg., San Francisco, having plans prepared reconstructing department store into theatre, 1,100 to 1,800 seating capacity, studio rooms, hotel, etc., 4th and K Sts. $250,000.

Calif., San Bernardino—Court House—San Bernardino Co. election May 14, $475,000 bonds, 2 story and basement, approximately 90 x 300 ft., rein.-con. court house addition. Noted Oct. 9.

Calif., San Francisco—Garage—Powers & Ahnden, archts., 460 Montgomery St., preparing plans 6 story, rein.-con., Bush St. near Kearny St. $150,000. Owners name withheld.

Calif., San Francisco—Hotel—Ambassador Hotel, Eddy and Mason Sts., plans 5 story and basement, rein.-con. and brick annex, Eddy and Mason Sts. $250,000.

Calif., San Francisco — Hotel — T. W. Butcher, 3650 Fulton St., plans 60 x 200 ft., Class "A" hotel, Jones St. near Geary St. $350,000. Engineer and architect not selected.

Calif., San Francisco—Theatre—Warner Bros. Studio, Hollywood, plans fireproof theatre, 4,000 seating capacity. To exceed $150,000.

Calif., San Jose — Club — Y. W. C. A. plans 4 story, fireproof club house annex. $150,000 or more.

Calif., San Jose—Hotel—Saint Claire Realty Co., having plans prepared by Weeks & Day, 315 Montgomery St., San Francisco, 6 story and basement, fireproof, Market and San Carlos Sts. To exceed $150,000.

Calif., Santa Barbara — Hotel — C. B. Harvey, c/o Hotel Green, Pasadena, plans about 4 story, rein.-con. hotel, Channel Dr., here. To exceed $150,000.

Calif., Santa Rosa—Hospital—Supervs. Sonoma Co., W. W. Felt, Jr., clk., plans hospital. $250,000 or more bonds will probably be voted to finance construction. Noted Oct. 2.

Ont., Toronto—Apartment—M. Holland, 1282 St. Clair Ave. W., plans 3 or 4 story and basement, rein.-con., brick and timber, plain foundation, St. Clair Ave. E. $150,000. Private plans.

Ont., Toronto — Exhibition — Dept. Pub. Wks., Parliament Bldg., plans 1 or 2 story and basement, rein.-con., brick and steel, plain foundation, Exhibition Park. $500,000. Engineer and architect not selected.

Ont., Toronto—Offices—Yolles & Rotenberg, 366 Adelaide St. E., plans 8 story and basement, rein.-con., brick, plain foundation, Bay and Albert Sts. $300,000. Engineer and architect not selected.

Que., Three Rivers—Hotel—Tomaqua Hotel Co. Ltd., c/o J. Balcer, having plans prepared by Asselin & Denoncourt, Three Rivers, 2 story, 35 x 150 ft. hotel, Pointe du Lac. $150,000.

BIDS DESIRED

Me., Augusta—Hotel—Weavers Restaurant, Water St., taking bids 6 story and basement, brick and timber addition. $150,000. Bunker & Savage, Augusta Trust Bldg., archts. Noted Feb. 5.

Mass., Boston — Apartment — Apsit & Knight, c/o H. R. Duffie, archt., 333 Belgrade Ave., Rosindale, will build 3 story and basement, brick and stone, plain foundation, Edgemont Rd. $175,000. Work will be done by separate contracts.

Mass., Boston—Apartment—D. Feldman, c/o S. S. Levy, archt., 35 Court St., will build 3 story and basement, 80 x 90 ft., rein.-con. and brick, plain foundation, Wellington Hill St. $150,000. Work will be done by separate contracts.

Mass., Brockton (Boston P. O.)—Office—Brockton Gas Light Co. taking bids altering and constructing 4 story and basement, brick and limestone addition, Main St. $150,000. Hutchins & French, 11 Beacon St., Boston, archts. Noted Feb. 26.

Mass., Cambridge (Boston P. O.)—Apartment—A. Bennett & A. I. Kramer, 431 Putnam Ave., taking bids 4 story and basement, 150 x 175 ft., brick, plain foundation, Magazine and Chestnut Sts. $200,000. A. McNaughton, 44 Bromfield St., Boston, archt. Noted Feb. 19.

Mass., Cambridge (Boston P. O.) — Apartment—S. F. Mitchell, c/o G. N. Jacobs, archt., 4 Park St., Boston, taking bids superstructure for 5 story and basement, 104 x 201 ft., brick and stone, plain foundation, Prescott St. and Bway. $450,000. Noted Jan. 29.

Mass., Danvers—Temple—Masonic Temple Assn. taking bids 1 story and basement, brick and stone, plain foundation, High and Park Sts. $150,000. Little & Brown, 114 Federal St., Boston, archt. Noted Feb. 19.

Mass., Lynn—Apartment—F. Ragosa, 36 Whitney St., will build 5 story and basement, 112 x 115 ft., rein.-con., brick and steel, plain foundation, Ocean and Cherry Sts. $225,000. Work will be done by separate contracts. B. E. Porter, 73 Tremont St., Boston, archt. Noted Feb. 5.

Mass., Medford — Office — Progressive Building Trust, c/o Desmond & Lord, archts., 1 Beacon St., Boston, taking bids 3 story and basement, brick and stone, plain foundation, Salem St. $150,000.

Mass., Wakefield—Exchange—New England Telephone & Telegraph Co., 50 Oliver St., Boston, J. E. Duffy in charge, taking bids 2 story and basement, brick and rein.-con., Richardson Ave. and Foster St., here. $150,000. P. O. Hopkins, 177 State St., Boston, archt. Noted Mar. 19.

Mass., Worcester — Warehouse — C. E. Mattson, c/o G. A. Johnson, archt., 405 Main St., taking bids 2 story and basement, 100 x 100 ft., brick, steel and rein.-con. warehouse. $150,000. Noted Mar. 12.

R. I., Woonsocket—Store and Apartment—Falk Bros., Main St., taking bids 4 story and basement, 85 x 110 ft., brick and stone, plain foundation, Social St. $200,000. O. D. Druin, 251 Main St., archt.

Conn., Ansonia — Temple — Building Comn., George Washington Lodge, taking bids 2 story and mezzanine, 75 x 80 ft., brick and stone, North Main St. $150,000. Orr & delGrella, 956 Chapel St., New Haven, archts. Noted Mar. 19.

Buildings—Commercial (Continued)

Conn., Hartford — Business — Hudson Cloak & Suit Co., 156 West 34th St., New York City, taking bids and open same about April 8, 8 story, 40 x 50 ft., brick and concrete, Main St. $150,000. Berenson & Moses, 30 Allyn St., archt. Noted Mar. 5.

Conn., New Haven—Business and Club—Young Men's Republican Club, L. Smith, pres., West Haven, taking bids 8 story, 52 x 145 ft., brick and steel, plain foundation, Temple and Crown Sts. $500,000. Shiner & Appel, 185 Church St., archt.

N. Y., Brooklyn — Theatre — Chanbrook Realty Corp., 105 Court St., will build brick, steel and stone, plain foundation, 47th St. near Bway. $200,000. Work will be done by separate contracts. H. J. Krapp, 1650 Bway., New York City, archt. and engr.

N. J., Camden—Theatre—Apr. 8, by Hoffman-Henon Co., archts., Finance Bldg., Phila., Pa., sub-bids for 1 story and basement, 110 x 160 ft. brick and steel, plain foundation, 6th and Market Sts., here, for Stanley Co. of America, 1916 Race St., Phila., Pa.

Pa., Harrisburg — Temple — Apr. 4, by I. O. O. F., 5 story and basement, 37 x 130 ft., steel and brick, plain foundation, 3rd and Foster Sts. $200,000. Lawrie & Green, 116 Locust St., archts.

Pa., McKeesport—Store, Apartment, etc. —Apr. 13, by B. Volk, Jr., and G. M. Rowland, archt., Bakewell Bldg., Pittsburgh, 2 and 3 story and basement, store, apartment and garage, Ringgold St. $150,000.

Pa., Phila. — Apartment — Apartment Homes Co., 518 Stock Exch. Bldg., will build 5 story and basement, 53 x 104 ft., brick and steel, plain foundation, 4035 Chestnut St., $225,000. Work will be done by separate contracts. Watson Eng. Co., 4614 Prospect Ave., Cleveland, O., archts. Noted Dec. 4.

Pa., Phila.—Store and Garage—M. and C. Rose, North Amer. Bldg., will build 4 story and basement, 115 x 127 ft., brick and steel, plain foundation, 2027-30 Sansom St. Work will be done by separate contracts. Noted Mar. 5.

Pa., Phila. — Warehouse — Apr. 14, by Atlas Storage Co., c/o W. E. Sweebury, 37th and Market Sts., 8 story and basement, 60 x 220 ft., rein.-con. and brick, plain foundation, 40th and Walnut Sts. $400,000. G. S. Kinksley, 109 Dearborn St., Chicago, Ill., archt.

Pa., Pittsburgh—Store and Office—T. H. Edwards, 120 Quincy Ave., Carrick, and C. R. Geisler, archt., Ferguson Bldg., taking bids 4 story and basement, 63 x 101 ft., brick and steel, Amanda Ave. and Brownsville Rd., here. $400,000.

Pa., Pittsburgh — Warehouse, etc. — L. Aronson, c/o U. S. Realty Co., Union Trust Bldg., taking bids 3 story and basement, 100 x 353 ft., concrete, Josephine and Greeley Sts. $400,000. R. Carey Dickson, 6200 Penn Ave., archt.

N. C., Charlotte—Office—Apr. 10, by K. M. Blake, 252 West 64th St., New York City, 10 story and basement office, South Tryon St. W. Rogers, Charlotte, archt.

O., Cleveland—Apartment—M. Margolin & M. S. Kaufman, 1201 Guarantee Title Trust Bldg., taking bids 3 story and basement, 30 x 52 x 80 ft., brick and stucco, 13,311 Buckeye Rd. $150,000. A. W. Harris, Guarantee Title Trust Bldg., archt.

Mich., Detroit — Hotel — C. N. Agree, archt., 1333 Book Bldg., taking bids and opens same about Apr. 10, 14 story, brick, steel and stone addition, plain foundation, Burns Ave., for Whittier Hotel, Burns Ave.

Ill., Chicago — Hospital and Medical School—Apr. 6, by Coolidge & Hodgson, archts. and engrs., 134 South LaSalle St., group 9 buildings, 6 story and basement, rein.-con., steel and stone, plain foundation, Midway Plaisance between Drexel and Ellis Aves., for University of Chicago, 230 South Clark St. $2,000,000. Noted Dec. 11.

Wis., Milwaukee—Apartment—G. Zagel & Bro., archts., 144 Oneida St., taking bids and open same about Apr. 6, 4 story and basement, 92 x 132 ft., brick, tile and steel, plain foundation, Prospect Ave., for L. and L. C. Goldmann, 526 Mitchell St. $200,000.

Neb., Franklin—Court House—Apr. 14, by B. W. Harrington, clk. Franklin Co., 4 story and basement, 70 x 90 ft., brick, concrete and stone court house. $200,000. G. A. Berlinghof, 14 Orpheum Bldg., Lincoln, archt. Noted Jan. 8.

Neb., Lincoln—Capitol—Apr. 28, by R. L. Cochran, engr., State Capitol, 2nd section State Capitol, incl. entire basement and ½ remaining work above ground. $2,500,000. B. G. Goodhue, 2 West 47th St., New York City, N. Y., archt. Noted Nov. 27.

Tex., Dallas—Warehouses—J. A. Pitzinger, archt., 807 Southwestern Life Bldg., taking bids one 3 story, 75 x 100 ft., and 4 story, 75 x 100 ft. warehouses, rein.-con. and brick, plain foundation, Griffin St., for J. J. Simmons, North Texas Bldg. $150,000.

Tex., San Antonio—Theatre—W. J. Lytle, c/o Princess Theatre Bldg., taking bids rein.-con., brick, stone and terra cotta, plain foundation, Houston and Travis Sts. $1,500,000. Boller Bros., 508 Ridge Bldg., Kansas City, Mo., engrs. and archts. Noted Feb. 26.

Wash., Seattle—Apartment—J. L. Homes, archt., Pantages Bldg., taking bids 5 story and basement, 65 x 120 ft., steel and concrete, 1317 Boren Ave., for Sovereign Investment Co. $175,000.

Calif., Long Beach — Club — Curlett & Beelman, archts., Union Bank Bldg., Los Angeles, taking bids 14 story and basement, 160 x 260 ft., rein.-con., Ocean Blvd., here for Pacific Club. $1,000,000. Noted Jan. 22.

Calif., Los Angeles — Apartment — S. Rabinowich, Union Bank Bldg., will build 4 story and basement, brick and concrete, 3rd and Kenmore Aves. $165,000. Work will be done by separate contract. Noted Jan. 15.

Calif., Los Angeles — Theatre, Store and Office—L. A. Smith, archt., Lily-Fletcher Bldg., taking bids 2 story, 100 x 155 ft., brick and concrete South Vermont Ave., for West Coast Theatres, Inc., Knickerbocker Bldg. $150,000.

Calif., Petaluma—Bank—H. W. Winner Co., archts., 55 New Montgomery St., San Francisco, taking bids 1 story, 2 mezzanine floors, rein.-con. bank, here, for Sonoma County Natl. Bank. $150,000.

CONTRACTS AWARDED

N. H., Concord — Temple and Theatre — Bek Tash Real Estate Assn., c/o C. R. Whitcher, archt., 814 Elm St., Manchester, 3 story, 100 x 150 ft., brick and steel, to Hutchinson Building Co., 165 South Main St. Archts. est. $250,000. Noted Feb. 26.

Mass., Boston—Garage—G. W. Bunnell, 56 Winchester St., Brookline, 4 story, 70x 245 ft., rein.-con. and steel, plain foundation, 565-589 New Bury St., to Natl. Eng. Corp., 60 Federal St. Archts. est. $20,000. Noted Jan. 15.

Mass., Boston—Store—Northern Realty Trust, c/o C. J. Carpenter, Jr., archt., 1 Moss Hill Rd., Jamaica Plain, 2 story and basement, brick, 56-70 Cambridge St., to Withey Constr. Co., 146 Tyler St. Archts. est. $150,000. Noted Feb. 12.

Mass., Boston—Store and Office—Bryant Real Estate Trust, c/o F. A. and F. M. Kendall, archts., 45 Bromfield St., will build 5 story and basement, 50 x 60 ft., brick and stone, 85-91 Court St. to Beacon Constr. Co., 110 State St. Archts. est. $150,000. Noted Mar. 5.

Mass., Framingham—Store—S. S. Kresge Co., Kresge Bldg., Detroit, Mich., 2 story and basement, rein.-con. and brick, Irving St., here, to T. I. McMahon, Framingham. Archts. est. $150,000. Noted Mar. 12.

Mass., Lawrence—Office—Bay State Natl. Bank, reconstructing and altering 8 story and basement, rein.-con., brick and steel office building, to E. A. Peabody & Son, Bay State Bldg. Archts. est. to exceed $150,000.

Mass., Springfield—Store—F. W. Woolworth Co., Park Sq. Bldg., Boston, 3 story and basement, brick, to E. J. Pinney Co., Main St. Archts. est. $150,000.

Mass., Newton Center (Br. of Boston)—Dormitory—Newton Rest Assn., c/o H. H. Kendall, 876 Beacon St., Boston, 1 and 2 story and basement, 100 x 200 ft., brick and timber, here, to A. I. English Co., 22 Union St., Newton. Archts. est. $150,000. Noted Mar. 12.

Conn., New Haven — Apartment — L. Miller, 162 Bishop St., will build 4 story and basement, 52x116 ft., brick and steel, Howard St., by day labor. $150,000. J. Weinstein, Metropolitan Bldg., archt.

Conn., Stamford — Apartment — E. I. Rogers, 34 Bedford St., brick and steel, Bedford St., to Vuono Constr. Co., Bank Bldg. Archts. est. $150,000.

N. Y., Brooklyn—Apartment—A. Goldberg, c/o Cohn Bros., archts and engrs., 361 Stone Ave., will build 4 story, 90 x 100 ft., stone and brick, plain foundation, East 35th St. and Clarendon Rd., by day labor. $175,000.

N. Y., Brooklyn — Apartment — Welch Constr. Co., c/o Shampan & Shampan, archts. and engrs., 188 Montague St., will build brick, steel and stone, plain foundation, Maple St., by day labor. $750,000.

N. Y., New York—Apartment—H. Lucas, 101 Park Ave., brick, steel and stone, plain foundation, East 57th St., to Todd, Robertson & Todd Eng. Corp., 347 Madison Ave. Archts. est. $1,500,000.

N. Y., New York—Office—Five Hundred Fifty 5th Ave. Corporation, c/o G. Keitzer, archt. and engr., 56 West 45th St., will build 16 story, 50 x 100 ft., brick, steel and stone, plain foundation, 556 5th Ave., by day labor.

N. Y., Schenectady—Theatre—F. F. Proctor, 1564 Bway., New York City, 3½ story, steel and cement, with arcade 2 story high, State and Smith Sts., here, to C. P. Boland & Co., P. O. Box 587, Troy. Archts. est. $1,200,000.

N. J., Camden—Lodge—J. C. Jeffries, archt., 312 Market St., Phila., Pa., 3 story and basement, 70 x 150 ft., brick and steel, plain foundation, 7th and Cooper Sts., here, to H. J. Homan Co., 18th and Cherry Sts., Phila., Pa., for B. P. O. E., Bway. and Federal Sts. Noted Mar. 12.

N. J., New Brunswick — Home — Elks Lodge, 4 story and basement, 50 x 102 ft. and 72 x 116 ft., Livingston Ave., general contract to G. B. Rule, Inc., 71 John St., $192,950, heating and plumbing to Burns, Lane & Richardson, 16 Patterson St. $38,993.

Pa., Bellevue—Hospital—Suburban Hospital Assn., general contract 2 story and basement addition, to B. A. Groah Constr. Co., West North Ave., Pittsburgh. Archts. est. $150,000.

Pa., Erie—Exchange—Mutual Telephone Co., 2 story and basement, 100 x 164 ft., brick and concrete, to H. Shenk Co., Erie. Archts. est. $150,000. Noted Mar. 26.

Pa., Germantown (Phila. P. O.)—Hospital—A. H. Brockie, archt., 254 South 15th St., Phila., group of 5 story and basement, 45 x 155 ft., 49 x 77 ft. and 55 x 167 ft., brick and steel buildings, plain foundations, Wistar and Penn Sts., here, to Irwin & Leighton, 126 North 12th St., Phila., for Germantown Dispensary Hospital. Archts. est. $1,000,000. Noted Feb. 5.

Pa., Johnstown — Public Safety — M. Z. Smith, city comr., 5 story and basement, 75 x 100 ft., brick, Washington St., general contract to Berkibile Bros., Swank Bldg., $213,919; plumbing, to Cambria Plumbing & Heating Co., 423 Franklin St., $69,669. Noted Jan. 29.

Pa., Lebanon—Hotel—Lebanon Hotel Co., c/o P. A. Volcker, 44 South 8th St., 6 story and basement, 110 x 200 ft., brick and steel, plain foundation, 9th and Cumberland Sts., to J. S. Hershey, St. Girard Bldg., Phila. Archts. est. $700,000.

Pa., Phila. — Apartment — Rosemont Constr. Co., c/o H. Swanford, 1317 Weidner Bldg., will build 4 story and basement, 100 x 147 ft. brick and steel, plain foundation, Pine St. east of 46th St., by day labor. $400,000. G. B. Johnson, 5413 Media St., archt. Noted Feb. 19.

Pa., Phila. — Apartment — McCallum Apartment Corp., c/o J. Bernhard, 13th and Walnut Sts., 9 story and basement, McCallum and Hortner Sts., 28 x 72 ft., 28 x 72 ft., and 24 x 60 ft., to Wark Co., 1600 Walnut St. Archts. est. $1,200,000.

Pa., Phila.—Apartment—W. Webster, 366 Madison Ave., New York City, 18 story and basement, 100 x 175 ft., brick and steel, plain foundation, 17th and Locust Sts., to Barras Constr. Co., 1612 Market St. Archts. est. $2,500,000.

Pa., Phila.—Office—J. C. Kahn, Morris Bldg., 16 story and basement, 119 x 141 ft., brick and steel, plain foundation, 19th and Arch Sts., to Wark Co., 1600 Walnut St. Archts. est. $1,500,000. Noted Nov 27.

Pa., Pittsburgh—Nurses' Home—Mercy Hospital, Pride and Stevenson Sts., general contract 9 story and basement, Boulevard of Allies, to W. F. Trimble & Sons, 1719 Penn Ave. N. S. Archts. est. $900,000. Noted Mar. 5.

Pa., Pittsburgh — Warehouse—Demmler Bros., general contract 5 story and basement, 45 x 100 ft., brick, concrete and steel, Ross St., to B. A. Groah Constr. Co., West North Ave., N. S. Archts. est. $150,000.

Pa., Pittsburgh — Warehouse — U. S. Realty Co., Penn Ave., general contract 2 story and basement, 100 x 353 ft. warehouse, Josephine and Greeley Sts., to Toupet Constr. Co., 5800 Ellsworth Ave. $200,000.

Md., Baltimore—Garage and Warehouse —G. F. Masson, pres. Masson's Express, 107 West Pratt St., 3 story and basement, 90 x 140 ft. brick and steel, plain foundation, Pratt and Poppleton Sts., to Price Constr. Co., Maryland Trust Bldg., $150,000.

N. C., Greensboro — Warehouse — Proximity Mfg. Co., 6 story, 122 x 122 ft., concrete warehouse, to W. M. Welch, Inc., Greenville.

Buildings—Commercial (Continued)

D. C., Wash.—Office—Medical Building Corp., constructing medical office, 1801 I St., N.W., to L. P. Schall, Box 1152, Richmond, Va. Archts. est. $400,000.

O., Youngstown—Armory—F. D. Henderson, Adj. Gen. State Building Comn., Columbus, for Ohio State Armory, 2 story, 144 x 188 ft., brick, here, to Heller-Murray Co., Youngstown, approximately $100,000. Noted Feb. 26.

Mich., Eloise—Infirmary—H. H. Prenzlauer, secy. Wayne Co. Supts. of Poor, County Bldg., 3 story and basement, rein.-con., brick and steel, plain foundation, to Rosewarne, McNab & Morswick, 333 State St., Detroit. Archts. est. $400,000. Noted Jan. 22.

Ill., Alton — Warehouse, etc. — Illinois Glass Co., 130 x 1,000 ft., timber and concrete warehouse and several other buildings, to M. C. Tuttle Co., 862 Park Square Bldg., Boston, Mass.

Wis., Wausau—Bank and Office—Childs & Smith, archts., 720 Michigan Blvd., Chicago, Ill., 8 story and basement, 50 x 122 ft., brick, stone, steel and concrete, plain foundation, here, to Hutter Constr. Co., 128 Western Ave., Fond du Lac, for Amer. Natl. Bank, 3rd and Scott Sts. Archts. est. $375,000. Noted Mar. 12.

Minn., Minneapolis — Apartments—Twin City Building & Investment Co., 2328 North 2nd St., two 3 story and basement, 69 x 174 ft., rein.-con. and brick, 28th St. and Park Ave., general contract to Anderson-Nelson Constr. Co., 610 First Nat'l-Soo Line Bldg.

Mo., Kansas City—Apartment Hotel—W. Jewell, Jr., 626 Chambers Bldg., will build 7 story and basement, 52 x 130 ft., rein.-con., brick and terra cotta, 13th and Wyandotte Sts., by day labor. H. A. Drake, 315 Reliance Bldg., archts.

Mo., Springfield—Hotel—J. T. Woodruff, Woodruff Bldg., general contract 4 story and basement, 95 x 150 ft., native stone and brick, to Caldwell & Son, Woodruff Bldg. Archts. est. $650,000.

Tex., Dallas — Hotel — Mitchell & Lawrence and J. Genaro, 608 19 South Pearl St., 10 story and basement, 50 x 100 ft., Jackson and Houston Sts., to Jopling-Marshall Constr. Co., Slaughter Bldg., $500,000 cost plus percentage basis.

Tex., San Antonio—Theatre and Office—J. Oppenheimer, A. Kronkosky, et al., rein.-con., brick, stone and part steel, plain foundation, St. Marys and Commerce Sts., to Kelwood Co., Travis Bldg. $1,500,000.

Wash., Seattle—Apartment—A. W. Cassells, Brown-Cassells Apartment, 4 story and basement, 118 x 120 ft., 1218 Terry Ave., to E. K. Sheble, 2955 36th St., S., $155,000.

Wash., Seattle—Apartment—F. M. Stanley, c/o H. Bittman, archt., Securities Bldg., 4 story and basement, 108 x 120 ft., rein.-con., 5th and Wall Sts., to Albertson, Cornell Bros. & Walsh, Seattle, $250,000.

Wash., Seattle — Apartment Hotel — Olympus Holding Co., 10 story and basement, 108 x 120 ft., brick, rein.-con. and terra cotta, 4th and Virginia Sts., to S. Berg, 3402 Woodland Ave. Archts. est. $750,000.

Calif., Long Beach — Office and Store — W. P. Wilson, c/o Dedrick & Bobbe, archts., 214 Laughlin Bldg., 8 story and basement, 50 x 150 ft., rein.-con., 8th St. and Pine Ave., to Stradley, Newton & Wilkie, Markwell Bldg., approximately $400,000.

Calif., Los Angeles — Hotel — Boyce — Seeley Constr. Co., 411 Pacific Finance Bldg., will build 6 story and basement, rein.-con., Lincoln St. near Figueroa St., by day labor. $400,000.

Calif., San Francisco — Apartment — B. Lowe, 200 Davis St., will build 6 story and basement, brick and steel, Pine and Stockton St., by day labor under supervision of Baumann & Jose, archts., 251 Kearney St. $150,000. Noted Mar. 19.

Calif., San Francisco — Theatre, Store and Office—W. B. Wagnon, 325 Bush St., 4 story, Class A, Market and Hyde Sts., to R. McLeran & Co., Hearst Bldg., approximately $1,500,000. Noted Feb. 5.

Que., Sherbrooke—Hospital—St. Vincent de Paul Hospital, 4 story, 48 x 504 ft. hospital addition, to J. A. Dion, Sherbrooke, $410,000. Noted Dec. 4.

Buildings—Educational, Religious

PROPOSED WORK

Me., Auburn — School — School House Dept. plans elementary school. $150,000. Engineer and architect not selected.

N. H., Littleton—High School—School Bd. plans new high school. $150,000 appropriation. Engineer and architect not selected.

N. H., Rochester—High School—School Comn. having plans prepared by J. E. Richardson, 56 Grove St., Dover, 3 story and basement, 68 x 70 ft. and 52 x 90 ft., brick and stone, plain foundation. $165,000. Noted Mar. 5.

Mass., Boston—School—Beaver School, 9 Beaver Pl., having preliminary plans prepared by C. G. Loring, 7 Water St., 4 story and basement, brick and stone, Chestnut St. $150,000.

Mass., Braintree—High School—School Building Comn., plans high school, Washington St. $360,000 appropriated. Engineer and architect not selected.

Mass., Charleston (Boston P. O.) — School—School House Dept., T. P. Glynn, chn., having preliminary plans prepared by J. Driscoll, 6 Beacon St., Boston, 2 story and basement, brick and limestone, plain foundation, Warren-Bunker Hill Dist. $200,000.

Mass., Hanover—School—School Dept., Town Hall, plans elementary school. $150,000. Engineer and architect not selected.

Mass., Worcester — School — Superintendent Pub. Buildings City Hall, Main and Front Sts., having plans prepared by J. Rustigian, 405 Main St., brick and stone addition, Elizabeth St. $150,000.

Conn., East Haven (Br. of New Haven) —Library—Town plans Hagaman Memorial Library, Main St. $250,000.

Conn., New Britain—School—School Bd., plans school, East St. $275,000. H. F. Ludorf, 122 Main St., archt.

Conn., New Britain—Schools—School Bd., plans schools in Lincoln and Munroe Dists. $325,000 each. Engineer and architect not selected.

Conn., Southington (Hartford P. O.)—School—School Comn., takes bids about Apr. 6th, 2 story and basement, 62x150 ft., brick and cast stone, plain foundation. $150,000. W. T. Arnold, 32 West Main St., Meriden, archt. Noted Mar. 19.

Conn., Windsor — School — School Bd., Town Hall, having plans prepared by H. A. Hayden, 175 Main St., Bristol, Roger Wolcott School. $150,000.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, Flatbush Ave. extension and Concord St., brick, steel and stone addition to P. S. 104, plain foundation, for Bd. Educ., 500 Park Ave., New York City. $500,000.

N. Y., Buffalo—Church—St. Johns Episcopal Church, Bidwell Parkway and Lafayette Ave., plans church, Lafayette Ave. $200,000.

N. J., Newark—Church—St. Lucys Roman Catholic Church, 19 Sheffield St., having plans prepared by N. J. Convery, 964 Broad St., brick and stone, plain foundation, Sheffield St. $150,000.

N. J., Margate City (mail Ventnor)—School—Bd. Educ. having plans prepared by V. Smith, Guaranty Trust Bldg., Atlantic City, 2 story, 16 room school. $200,000.

N. J., New Brunswick — Physics and Recitation—Rutgers College, W. T. Martin, actg. pres., plans physics and recitation building. $450,000. Engineer and architect not selected.

Pa., Pittsburgh — Church — East End Christian Church, East End, having plans prepared by V. Rigaumont, State Theatre Bldg., 2 story and basement, stone, Alder St. $400,000.

Md., Cumberland—High School—Smith & May, archts., Calvert Bldg., rejected bids Mar. 24, 3 story and basement, 169 x 200 ft., brick and steel, plain foundation, for Bd. Educ. Allegheny Co. $450,000. Will readvertise. Noted Mar. 5.

D. C., Wash. — Schools — Dist. Comrs. plan school at 5th and Sheridan Sts., $175,000; high school, 24th and N Sts., $475,000; McKinley Manual Training School, 2nd and T Sts., $2,250,000; Bruce School, $149,000; Junior High School, addition to MacFarland School, $125,000.

N. C., Asheville—Schools—City having plans prepared by C. H. Sayre, Greensboro, new schools. $550,000 bonds voted for same.

N. C., Rocky Mount—High School—State Legislature authorized city to issue $350,000 bonds erection and equipment high school.

Fla., St. Petersburg—High School, etc.—Bd. Educ., having preliminary plans prepared by M. L. Elliott, Citizens Bank Bldg., Tampa, and W. B. Ittner, 911 Locust St., St. Louis, Mo., 2 story, 280 x 310 ft. high school, with 1 story, 60 x 180 ft. cafeteria and locker building in rear, both brick and concrete. $750,000.

O., Cincinnati—Library—St. Xavier College, Woodburn Ave., having plans prepared by J. B. Steinkamp & Bro., Mercantile Library Bldg., 2 story and basement, rein.-con. and brick, plain foundation, Woodburn Ave. $150,000.

O., Dayton—Schools—Bd. Educ. having plans prepared by Walker & Norwick, 1301 Amer. Bldg., and Gebhart & Schaeffer, 507 Keith Bldg., 2 and 3 story and basement, brick and rein.-con. additions to Edison and Ruskin Schools, plain foundations. $200,000.

Ind., Muncie — Library — Eastern State Normal School, University Ave., plans rein.-con. and brick, plain foundation, in Normal City a suburban of here. $250,000.

Ia., Des Moines—Church—Grace Methodist Episcopal Congregation, c/o L. M. Grigsby, 936 1st St., pastor, having preliminary plans prepared by Vorse, Kraetsch & Kraetsch, 1201 Commonwealth Bldg., 1 and 2 story and basement, rein.-con., brick and stone, 37th St. and Cottage Grove Ave. $225,000.

Kan., Ft. Scott—School—Election Apr. 7, $200,000 bonds brick and concrete school, C. A. Smith, 800 Finance Bldg., Kansas City, Mo., archt. Noted Jan. 1.

S. D., Sioux Falls—School—Election soon $643,000 bonds, for 3 story and basement, school and other improvements, for Bd. Educ., B. S. Van Slyke, clk.

Mo., St. Louis — Athletic — Washington University, Forsythe Ave. and Skinker Blvd., making preliminary plans 2 story and basement, rein.-con., brick and stone, Forsythe and Pennsylvania Aves. $400,000.

Mo., St. Louis—High School—Bd. Educ. takes bids about June 17, Intermediate High School, 3 story and basement, 269 x 368 ft., rein.-con., brick, stone, tile and steel, Market, Laclede, Cardinal and Garrison Sts. $875,000. R. M. Milligan, 911 Locust St., comr. Noted Nov. 27.

Tex., Dallas — Church — Owner, c/o U. Lee, pastor, 3607 Haynie St., having plans prepared by De Witt & Lemmon, 507 Southwestern Life Bldg., 2 story and part basement, 150 x 150 ft., brick and stone, Mockingbird Lane and Abbott Ave. $225,000.

Tex., Dallas—Gymnasium—H. M. Whaling, vice-pres. Southern Methodist University, and De Witt & Lemon, archts., Southwestern Life Bldg., soon take bids brick and steel gymnasium, plain foundation, 4,000 seating capacity. $200,000.

Tex., McAllen—College—H. P. Smith, archt., San Antonio, had plans prepared by H. P. Smith, San Antonio, 3 story administration building, E shaped, brick, tile, etc., boiler room and engine house, 2 filter units, storage water tanks, sewerage system, septic tank and 8 rein.-con. chimneys, for Owner, c/o J. M. Carroll, pres. $300,000.

Tex., Ralls—High School—Election Apr. 11, $150,000 bonds high school, for Bd. Educ., P. B. Ralls, pres. Engineer and architect not announced.

Colo., Denver—School—City and Denver Co. had plans prepared by E. F. Redding, Tabor Opera House Bldg., 4 story, 69 x 123 ft. school, also 55 x 67 ft. boiler room brick, terra cotta and concrete, 12th and Welton Sts. $150,000.

Colo., Grand Junction — Schools — City having plans prepared by E. Groves, Foster Bldg., Denver, Lincoln Park Grade School and gymnasium building, both 1 story; also Whitman Park Grade, 7th Ave. Grade and Junior High Schools, each 2 story, all steel, brick and concrete. $270,000. Noted Feb. 26.

Colo., Longmont—High School—School Dist. having plans prepared by W. N. Bowman, Central Savings Bank Bldg., Denver, 3 story, L shaped high school with 65 x 240 ft. and 60 x 100 ft. wings, rein.-con. and brick. $220,000.

Calif., Huntington Beach — High School —Huntington Beach School Dist. plans election $150,000 or more bonds for fireproof high school.

Calif., Los Angeles — Church — First Baptist Church, having preliminary plans prepared by Allison & Allison, Hibernian Bldg., fireproof church, Westmoreland and Leeward Aves. $500,000 or more.

Calif., Los Angeles — Schools — City having plans prepared by Webber, Stanton & Spaulding, Hibernian Bldg., Lincoln High School, 3 story, 24 room, brick science building, 1 story, 60 x 100 ft., timber gymnasium, 2 story, rein.-con. ceramics building, etc., $275,000; by O. H. Nehr, Insurance Exch., Bldg., Van Nuys High School, domestic science and art

Buildings—Educational, Religious (Cont.)

building, etc., $160,000; by A. C. Martin, Higgins Bldg., Polytechnic High School, domestic science building, etc., $280,000; by E. Bergstrom, Citizens Natl. Bank Bldg., Fremont High School and science building, etc., $200,000; by Hunt & Burns, Laughlin Bldg., 3 story addition to Roosevelt High School and 1 story, brick and concrete shop buildings, $150,000; by T. C. Kistner, Pantages Theatre Bldg., John Adam Junior High School, $225,000; by Johnson & Coate, Unoin Bank Bldg., Starr King Jr. High School, $340,000; by Edelman & Zimmermann, 726 H. W. Hellman Bldg., Horace Mann Jr. High School, $340,000; and by Farrell & Miller, Western Mutual Life Bldg., Torrence Elementary School, $150,000.

Calif., Montecito — School — Trustees of Montecito Grammar School Dist. soon take bids 1 story, fireproof school. $150,000. W. H. Weeks, 369 Pine St., San Francisco, archt.

Calif., Oakland — High School — City having plans prepared by Architectural Dept. Bd. Educ., City Hall, Frick Jr. High School, fireproof. $195,000.

Calif., Oakland — Schools — City having plans prepared by Architectural Dept., of Bd. Educ., City Hall, 78th Ave., Toler Heights, Beulah, Columbian Park and Montclair Schools, fireproof construction. $200,000.

Calif., Oakland — High School — City having plans prepared by Miller & Warnecke, 1404 Franklin St., for Garfield School, 2 story, concrete. $235,000. Noted Nov. 13.

Calif., Oakland—Schools—City having plans prepared by Architectural Dept. Bd. Educ., City Hall, Webster School, incl. 12 rooms and auditorium, $118,000; and 8 room annex to Prescott School, $68,000 both fireproof construction.

Calif., Redlands—Church—First Baptist Church having preliminary plans prepared by N. F. Marsh, Bway. Central Bldg., Los Angeles, stone church building. $150,000.

Calif., San Francisco—School—City and San Francisco Co. having plans prepared by C. Werner, Santa Fe Bldg., Argonne School annex, fireproof, in Park-Presidio Dist. $150,000.

Ont., Belleville — Collegiate — Bd. Educ. plans collegiate. $350,000. A. McGie, chn.

Ont., Toronto — School — Bd. Educ., 155 College St., havng plans prepared by C. Dyson, 155 College St., 2 story and basement, 8 room, rein.-con., brick and steel addition to Malvern Collegiate, plain foundation. $150,000.

Ont., Toronto—School—Bd. Educ., 155 College St., having plans prepared by C. Dyson, 155 College St., 3 story and basement, 8 or 10 room, rein.-con., brick and steel addition, plain foundation. $150,000.

Ont., Toronto — School of Hygiene — Toronto University, Queens Park, having plans prepared by Mathers & Holdenby, 92 Bloor St., W., 3 story and basement, rein.-con., brick and steel, plain foundation. $400,000.

BIDS DESIRED

Vt., Burlington—High School—A. Kellogg, 89 Franklin St., Boston, Mass., taking bids Junior High School 2 and 3 story and basement, 60 x 100 ft., and 90 x 130 ft., brick and stone. $350,000. F. L. Austin, 240 College St., archt. Noted Aug. 28.

Vt., Proctor — Church — St. Dominics Parish taking bids 1 story and basement, 70 x 115 ft., rein.-con., brick and marble church, plain foundation. $150,000. Maginnis & Walsh, 100 Boylston St., Boston, Mass., archt.

Mass., Roxbury (Boston P. O.)—School—Apr. 17, by School House Dept., Boston, 3 story and basement, 50 x 120 ft., brick and stone addition to Boston Trade School, Parker St., Comins-Sherwin Dist., here. $200,000. McLaughlin & Burr, 58 Tremont St., Boston, archts. Noted Mar. 5.

Conn., Stamford—Church—Apr. 7th, by Holy Name of Jesus Parish, F. M. Waldasz, pastor, 1 story and basement, brick and steel, South St. $150,000. H. F. Ludorf, 122 Main St., New Britain, archt. Noted Mar. 19.

Md., Cumberland—High School—Apr. 7, by Smith & May, archts., Calvert Bldg., Baltimore, 3 story, 169 x 200 ft., rein.-con. and brick, plain foundation, for Alleghany Co. $375,000. Noted Mar. 5.

Mich., Addison—School—Apr. 13, by G. Crofoot, secy, Bd. Educ., 3 story and part basement, 83 x 102 ft., rein.-con., brick and steel, plain foundation. $150,000. Warren Holmes-Power Co., Lansing, archts.

Mich., Detroit—School—Apr. 8, by W. A. McFarlane, secy. Bd. Educ. Dist. 9, Plymouth Rd., 2 story and basement, 11 rooms and gymnasium, rein.-con., brick and steel, plain foundation; Plymouth Rd. $150,000. Verner, Wilhelm & Molby, 824 Book Bldg., archts.

Mich., Grand Rapids—School—Apr. 15, by H. N. Morrill, bus. mgr. Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation, Burton School site. $200,000. Turner & Thebaud, Michigan Trust Bldg., archts.

Wis., Racine—School—Apr. 16 (extended date), by Bd. Educ., A. Schafer, secy., 2 story and basement, brick and tile addition to Fratt School, plain foundation. $150,000. J. M. Matson, Baker Block, archt. Noted Mar. 26.

Calif., Anaheim—Convent and Home—T. F. Power, archt., 2516 West 7th St., Los Angeles, taking bids 3 story, 75 x 175 ft., rein.-con. convent and home, for Religious Order of St. Dominick, c/o architect.

Calif., Pasadena—Library—Apr. 20, by City Trustees, general contract, part 1, 2 and 3 story, 180 x 310 ft., rein.-con. library. M. Hunt, Hibernian Bldg., Los Angeles, archt. Noted Oct. 23.

Calif., San Francisco—School—Apr. 22, by Bd. Pub. Wks., fireproof school, 22nd and Douglas Sts., for City and San Francisco Co. $400,000. J. Reid, Jr., 1st Natl. Bank Bldg., city archt.

N. B., St. John—School—Apr. 6, by F. N. Brodie, St. John, 3 story, 160 x 272 ft. rein.-con., brick, steel and stone, plain foundation, Douglas Ave., for Bd. Educ. $350,000.

BIDS RECEIVED

N. J., Vineland—Institution—State Bd. Institutions & Agencies, 135 West Hanover St., Trenton, constructing group of buildings, here, from T. M. Day & Sons, Hunt Bldg., Trenton, $410,500; colony and idiot buildings, from V. Gondos, Franklin Trust Bldg., Phila., Pa., $179,900; idiot and colony buildings from General Constr. & Contg. Co., 117 Emory Ave., Trenton, $85,981 and $87,300 respectively; low and middle class building from C. McCaull Co., 1715 Sansom St., Phila., Pa., $84,360; assembly building, from Wills-Bill & Co., 1708 Sansom St., Phila., Pa., $93,440. Noted Mar. 5.

Minn., Minneapolis—Schools—Bd. Educ., 305 City Hall, Mar. 16, general contract two 2 story and basement, rein.-con., brick, tile and stone, one at 44th and Girard Aves. N., from L. Fleisher Co., 505 Plymouth Bldg., $80,000, and other at Oliver and 10th Aves. N., from Pehrson Bros., 555 Temple Court, $59,456. Noted Mar. 12.

Calif., Alhambra—Church—C. F. Skilling, archt., Bradbury Bldg., Los Angeles, 50 x 100 ft. Sunday school building, 65 x 140 ft. educational building, and 65 x 70 ft. pastors study, etc., all brick and rein.-con., here, from Steed Bros., 305 North Garfield St., for First Methodist Episcopal Church. $157,740. Noted Mar. 5.

CONTRACTS AWARDED

Me., Biddeford — High School — School Comn., Town Hall, 3 story and basement, 70 x 110 ft., and 70 x 112 ft., brick and steel, plain foundation, to J. A. Benoit, Biddeford, $127,568. Noted Mar. 19.

Me., Dover — Foxcroft — High School — City, W. J. Mayor, 2 story and basement, brick and stone high school, to S. F. Atwood, Dover. Archts. est. $150,000. Noted Sept. 11.

Mass., Chelmsford — Church — Roman Catholic Archbishop of Boston, c/o J. M. Gray, archt., 175 High St., Boston, 1 story and basement, 60 x 100 ft., rein.-con. and timber church, here, to A. T. Minor, Chelmsford. Archts. est. $150,000. Noted Mar. 12.

Mass., Maynard—High School—Superintendent of Schools, 2 story and basement, brick high school, to T. P. Hurley, Marlboro, $121,000. Noted Mar. 19.

R. I., Woonsocket—Church—St. John's Roman Catholic Parish, A. Graton, pastor, 80 x 172 ft., 80 x 172 ft. church with 180 ft. tower, Quincy Ave., to A. and D. Boileau, 245 McDougall Ave., Montreal, Que., $350,000.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York City, P. S. 63, Williams Ave., here, general contract to G. F. Driscoll, 115 Schermerhorn St., $474,890; plumbing, to A. J. Hendel, 33 Railroad Ave., Corona, $37,977; heating, to D. J. Rice, 405 Lexington Ave., New York City, $65,875. Noted Mar. 26.

N. Y., Buffalo—School—Bd. Educ., Genesee Bldg., P. S. 75, rein.-con. and brick, Monroe St., to G. Schaaf, 258 Kingsley St., $331,086. Noted Mar. 5.

Pa., Shamokin — School — Coal Twp. School Dist., Oneida St., 2 story and basement, 83 x 142 ft., brick and steel, plain foundation, in Northumberland Co., to Shamokin Lumber Co., Shamokin. Noted Feb. 5.

Del., Wilmington — School — St. Peters Catholic Church, c/o J. J. Dougherty, pastor, 3 story and basement, 50 x 105 ft., brick and steel, plain foundation, 6th and Tatnall Sts., to Joyce & Kerrigan, 114 Broome St. Archts. est. $150,000. Noted Dec. 18.

Va., Richmond—School—City, general contract Richmond Normal School, 200 x 400 ft., mission type, colored terra cotta, incl. 40 class rooms, auditorium, gymnasium, etc., to R. K. Harwood Constr. Co., Newport News. Archts. est. $376,900.

N. C., Hendersonville — School — City, brick and concrete school, containing 38 class rooms, to J. J. Stroud, Southern Pines, $192,300.

O., Cheviot (Cincinnati P. O.)—School—Village, 1 story and basement, rein.-con. and brick, plain foundation, Harrison Ave., to E. Honnert, Mt. Healthy, $205,000. Noted June 26.

O., Fairview—School—Bd. Educ., P. P. Jordan, clk., 2 story and basement, 76 x 168 ft., brick, steel and concrete, to R. S. Ursprung, Beckman Bldg., $117,834. Archts. est. $200,000. Noted Mar. 19.

O., Shaker Heights (Cleveland P. O.)—Schools — Bd. Educ., J. W. Main, clk., 3 story and basement, brick, steel and concrete, South Moreland and Lee Rds., to Alexander Bros., Williamson Bldg., Cleveland, $393,896; steam heating, to Feldman Bros., 10309 Barrett Ave., Cleveland, $51,-425; 2 story and basement, brick, steel and concrete addition, Drexmore and Southington Rds., to Schrader Constr. Co., Euclid-46th Market Bldg., Cleveland, $136,231. Noted Feb. 26.

Wis., Fond du Lac—School—St. Peters Congregation, c/o A. C. Egelhoff, 87 South Main St., 2 story and basement, 80 x 105 ft., brick and tile, plain foundation, to Hutter Constr. Co., 128 Western Ave. Archts. est. $150,000. Noted Mar. 5.

Mo., Hannibal—High School—Bd. Educ., general contract 2 story and basement, 110 x 195 ft., rein.-con., brick and stone, to W. E. Fogerson, Republic, $112,180. Noted Jan. 8.

Mo., Oran — School — Bd. Educ., G. C. Blocker, secy., general contract 2 story and basement, 110 x 127 ft., brick, concrete and timber, to R. Welteike, Sikeston. Noted Mar. 12.

Colo., Ft. Morgan—High School—School Dist., general contract 3 story, 200 x 300 ft. high school, to Bushboom, Fairbury, Neb., $177,000; plumbing and heating, to City Plumbing & Heating Co., Boulder, $53,000.

Calif., Berkeley—Gymnasium—University of California, 708 15th St. (1st unit) Phoebe Hearst Memorial, 3 story concrete gymnasium, to K. E. Parker Co., 519 California St., San Francisco, approximately $300,900. Noted Mar. 26.

Que., Cap-De-La-Madeleine — College — Comrs. Roman Catholic School, 3 story, 60 x 110 ft. college, to U. W. Rousseau, Cap-De-La-Madeleine. Archts. est. $150,000.

Federal Government Work

PROPOSED WORK

N. Y., New York—Platform, etc.—U. S. Engineer Office, War Dept., Wash., D. C., plans stone platform, steps, etc., at MacDonough Memorial, here.

W. Va., Alderson—Reformatory—Treas. Dept. at office Supervising Archt., Wash., D. C., having plans prepared reformatory, here.

S. C., Charleston—Dredging—U. S. Engineer Office, War Dept., Wash., D. C., plans dredging in Charleston Harbor, here.

Calif., San Diego—Quarters—Spec. 5072—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids 2 single and 1 double quarters at Naval Operating Base (Hospital), here.

Calif., Santa Monica—Hospital—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., plans group of hospital buildings, here.

P. I., Canacao—Hospital—Spec. 5051—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids constructing hospital, here.

BIDS DESIRED

Mass., South Boston — Capstans — Spec. 5069—Apr. 8, by Bureau Yards & Docks, Navy Dept., Wash., D. C., capstan pits,

Federal Government Work (Continued)

Bollard foundation and Pier Bollard, here. Noted Mar. 5.

R. I., Providence—Dredging—May 1, by U. S. Engineer Office, dredging in Block Island Harbor of Refuge, here; adv. E. N.-R. Apr. 2.

Ala., Florence—Cylinder Valves—Apr. 11, by U. S. Engineer Office, four sets cylinder valves, etc., for Lock 1, Wilson Dam; adv. E. N.-R. Apr. 2.

Ala., Florence—Roofing—Apr. 7, by U. S. Engineer Office, War Dept., built up bituminous roofing for generator, lead tower switchboard building and oil circuit breaker building, at Wilson Dam.

Mich., Detroit — Borings — Apr. 30, by U. S. Lake Survey Office, Old Customhouse, borings in St. Lawrence River; adv. E. N.-R. Apr. 2.

Wis., Milwaukee—Steel Barges—Apr. 30, by U. S. Engineer Office, constructing steel barges; adv. E. N.-R. Apr. 2.

Mo., St. Louis—Earthwork—Apr. 28, by Mississippi River Comn., 1311 International Life Bldg., 300,000 cu.yd. earthwork in Iowa River-Flint Creek Levee Dist. 16, Ia.; adv. E. N.-R. Apr. 2.

Ark., Russellville—Post Office—Apr. 28, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story post office, here; adv. E. N.-R. Apr. 2.

Wash., Puget Sound — Roofing — Spec. 5100—Apr. 8, by Bureau Yards & Docks, Navy Dept., Wash., D. C., roofing, etc. here.

BIDS RECEIVED

Pa., Phila.—Pipe Line—U. S. Engineer Office, War Dept., constructing 20 in. pipe line, from Newport News Ship & Engine Building Co., Newport News, Va., using Busch-Sulzer engine $715,000 (300 days), Worthington engine $723,000 (300 days), McIntosh & Seymour engine $720,000 (270 days). Noted Jan. 29.

Calif., San Francisco — Extension — Spec. 5075—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to storehouse, here, from K. E. Parker, 519 California St., $126,810. Noted Mar. 5.

CONTRACTS AWARDED

N. H., Portsmouth — Capstans — Spec. 5024—Bureau Yards & Docks, Navy Dept., Wash., D. C., electrically driven capstans, here, to Marine Electric Co., 35 Commercial St., Portland, Me., $7,345 (180 days).

R. I., Providence—Dredging—U. S. Engineer Office, dredging in Thames River, Conn., to Morris & Cummings Dredging Co., 15 Moore St., New York City, $47,500. Noted Feb. 19.

D. C., Wash.—Pumping Unit—U. S. Engineer Office, 250 Old Land Title Bldg., pumping unit, to Allis Chalmers unit, to Allis Chalmers Mfg. Co., West Allis (br. of Milwaukee), $862. Noted Feb. 5.

D. C., Wash.—Purification Unit—U. S. Engineer Office, furnishing mobile water purification unit, to Wallace & Tierman Co., Inc., 1 Mill St., Newark, N. J. $7,385.

N. C., Wilmington — Barge — U. S. Engineer Office, constructing 80 ft. steel barge, to Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $12,800. Noted Feb. 12.

La., New Orleans—Earthwork—U. S. Engineer Office, 140 Decatur St., 265,000 cu.yd. earthwork in Warnicutt Levee, to Ogden & Lewis, Roumain Bldg., Baton Rouge, $52,470.

Ky., Louisville—Steel Castings—U. S. Engineer Office, steel castings, etc., for Dam 52, Ohio River, Lot A, to Penn Bridge Co., Beaver Falls, Pa., $11,660; Lot B, to F. J. and J. B. Milholland Co., 714 5th Ave., Pittsburgh, Pa., $4,081; Lot C, to Wright Machine Co., Owensboro, $553; Lots D and E, to H. P. Gazzam Machine Co., 3200 Penn Ave., Pittsburgh, Pa., $9,270.

O., Kenton — Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story post office, here, to Dunlop & Co., Columbus, Ind., $54,890 (12 months). Noted Feb. 19.

Wis., Milwaukee—Steel Bars—U. S. Engineer Office, steel reinforcing bars for concrete caissons, to Calumet Steel Co., 208 South LaSalle St., Chicago, Ill., $12,310.

Wash., Vashon Island — Steel Beacon Towers — Spec. 5066—Bureau Yards & Docks, Navy Dept., Wash., D. C., steel beacon towers at Navy Depts. Trial Course, here, to W. A. Parker, Bremerton, $3,128 (120 days).

Calif., San Francisco—Storehouse—Spec. 5075—Bureau Yards & Docks, Navy Dept., Wash., D. C., extending storehouse, here, to K. E. Parker, 519 California St., $126,810.

Unclassified

PROPOSED WORK

Playground—Boston, Mass.—City plans developing land and constructing playground at Rutland, Tremont and Newton Sts. $25,000. J. P. Sullivan, secy. Street Laying Out Dept.

Pier—South Boston (Boston P. O.), **Mass.**—Park Dept., 33 Beacon St., Boston, plans reconstructing Marine Park Pier, etc. $35,000. J. J. Murphy, c/o owner, engr.

Playgrounds—Watertown, Mass.—Bd. Selectmen plans new playgrounds in east and west ends. $180,000 appropriated. Engineer not selected.

Electric Lights — North Carolina — See "Streets and Roads."

Dock Extension, etc.—Tampa, Fla.—Mallory & Clyde Steamship Co., Mallory Docks, plans about 500 ft. dock extension, 2 new warehouses, repairs to present docks and warehouses. $150,000. H. H. Raymond, pres.

Poles and Transmission Lines—Canton, O.—Ohio Power Co., 301 Cleveland Ave. S. W., plans replacing poles, transmission lines and increasing the general capacity of electrical distribution in southwest section. $200,000.

Lighting System—Abingdon, Ill.—Plans ornamental lighting system on Latimer, Adams and Jackson Sts., Pennsylvania and Ohio Aves., incl. 64 c.i. poles. F. M. Connolly, 432-433 Peoples Trust & Savings Bank Bldg., Galesburg, engrs.

Lighting System—Lewistown, Ill.—Plans ornamental lighting system on North Adams, North and South Main Sts., West Lincoln and West Washington Aves. F. M. Connolly, 432-433 Peoples Trust & Savings Bank Bldg., Galesburg, engrs.

Hydro-Electric Developments—Marinette, Wis.—North Amer. Power Co., c/o Milwaukee Electric Ry. & Light Co., Pub. Serv. Bldg., Milwaukee, acquired sites for hydro-electric developments at Pemee dam and Chappee Rapids on Menominee River, near here. G. G. Post, c/o owner, engr.

Gas Holder—Cedar Rapids, Ia.—Cedar Rapids Gas Co., 327 South 3rd St., plans 1,000,000 cu.ft. gas holder. $150,000. Private plans. H. J. Carson, gen. mgr.

Transmission Line — North Dakota — Hughes Deiten Co., Dickinson, plans 25 mi., 23,000 volt transmission line from Dickinson to Richardson, betterments to Dickinson plant, incl. heating system for business section of Dickinson. $100,000. E. A. Hughes, Bismarck, engr.

Tipple, Transmission Line, etc.—Beulah, N. D. — Knife River Coal Co., Bismarck, plans new steel tipple, 2,500 tons per 8 hr. shift, and power plant equipment, here, also 10 mi. transmission line from Beulah to Hazen. $50,000. E. A. Hughes, Bismarck, engr.

Boilers, etc.—Bismarck, N. D.—Hughes Electric Co., Bismarck, plans 1,250 kw. steam turbine unit, boilers, condensing apparatus and cooling pond, etc. $85,000. E. A. Hughes, Bismarck, engr.

Land Development — Amarillo, Tex. — Amarillo Country Club having plans prepared by G. A. Carlander, 15 Massie Bldg., developing 13 acre track, incl. landscape work, paving, water, gas and lights. $30,000.

Sea Wall—Aransas Pass., Tex.—Voted $100,000 bonds rock and concrete sea wall. J. A. Zimmermann, mayor. Noted Mar. 12.

Tanks — Taft, Tex. — See "Buildings — Commercial."

Distribution System, etc.—Orlando, Okla.—Election Apr. 7, $12,000 bonds, distribution system and 8 mi. electric transmission line to Mulhall. Gantt Baker Co., 1116 West Main St., Oklahoma City, engrs.

Power Development — Arnprior, Ont. — Hydro-Electric Power Comn., 190 University Ave., Toronto, having surveys made hydro-electric power development to provide 66,000 hp., turbines, generators, transformers, motors, pumps, etc., on Ottawa River, at Roche Rendu, near here. $5,000,000. F. A. Gaby, ch. engr.

Grain Storage Elevators—Tavistock, Ont.—Tavistock Milling Co., plans grain storage elevators 60,000 bu. rein.-con., in connection with mill. $50,000. Engineer not selected.

Subway—Thamesville, Ont.—Dept. Provincial Highways, Parliament Bldgs., Toronto, plans subway under Canadian Natl. Ry., on Longwood Rd., here. $95,000. G. Hogarth, 110 University Ave., Toronto, ch. engr.

Coal Handling Plant — Toronto, Ont. — Elias Rogers Co. Ltd., 85 Bay St., plans coal handling and storage plant. $50,000. J. Hole, 167 Yonge St., engr.

Transmission Line—St. Anne des Plaines, Que. — Plans transmission line. $30,000. Engineers name withheld.

BIDS DESIRED

Retaining Wall—Indianapolis, Ind.—See "Streets and Roads."

Wall—Peru, Ind.—Apr. 29, by Bd. Comrs. Peru Flood Dist., rein.-con. wall, etc. T. N. Jacob, 1900 Railway Exch. Bldg., St. Louis, Mo., ch. engr.; adv. E. N.-R. Apr. 2.

BIDS RECEIVED

Subway—Brooklyn, N. Y.—Bd. Transportation, 49 Lafayette St., New York City, Mar. 27, tracks for portion of 4th Ave. subway line, here, from Slattery Eng. & Contg. Co., 10 East 43rd St., New York City, $31,391. Noted Mar. 19.

Station Finish—Long Island City, N. Y.—Bd. Transportation, 49 Lafayette St., New York City, Mar. 27, station finish for Willets Point Blvd. Sta. on Rapid Transit R.R., here, from M. Del Balso, 660 East 221st St., New York City, $99,381. Noted Mar. 19.

Street Lighting System — West Allis, Wis.—A. Wincher, supt. Bd. Pub. Wks., Mar. 23, ornamental street lighting system on Greenfield and National Aves., from Donovan Constr. Co., 417 Commercial Bldg., St. Paul, Minn., $43,700.

Ornamental Street Lighting System—Los Angeles, Calif.—Pressed steel standards on Santa Barbara Ave. between Main and Western Aves., from A. C. Rice, 1963 Santee St., $69,176. Noted Nov. 27.

CONTRACTS AWARDED

Land Development—Medford, Mass.—W. Welsh Realty Co., 209 Washington St., Boston, will develop land, incl. grading and laying new boulevard, side streets and sidewalks, culverts on old Lawrence Estate, by day labor under supervision of A. C. Peters, engr., 10 Pearl St., Boston. $100,000.

Station Finish—New York—Bd. Transportation, 49 Lafayette St., New York City, station finish work for Vernon-Jackson Aves., station on Queensboro Subway Rapid Transit R.R., Queensboro, and for Montrose Ave. Sta. of 14th St. Eastern Rapid Transit R.R., Brooklyn Boro, to W. Mitchell, 1 DeKalb Ave., Brooklyn, $84,000; miscellaneous construction, etc., at Times Sq. Sta., Manhattan Boro, to Slattery Eng. Co., 10 East 43rd St., New York City, $5,767. Noted Mar. 26.

Foundation—Phila., Pa.—G. H. Biles, dir. Dept. Pub. Wks., 216 City Hall, foundations for stadium, concrete, piles, etc., to McCloskey & Co., Inc., 1620 West Thompson St., $304,720.

Storage Tanks—North Kansas City, Mo.—Kansas Flour Mills Co., general contracts twenty 500,000 bu. rein.-con. storage tanks 96 ft. high, 20 ft. diam., to Industrial Eng. Co., 520 Kansas City Life Bldg., Kansas City.

Distribution System, etc.—Medford, Okla.—R. McGee, Blackwell, will build distribution system, here, and transmission line from here to Deer Creek gas field, incl. 10 mi. 6 in. steel and 52,000 ft. 2- to 4-in. w. i. pipe, by day labor. $45,000. Private plans.

Heating and Plumbing — Ft. Morgan, Colo. — See "Buildings — Educational, Religious."

Street Lighting System — Los Angeles, Calif.—For 169 pressed steel standards on Grand Ave., to Newbery Electric Corp., 720 South Ohio St., $62,822.

Tunnel — Oakland, Calif. — Supervs. Alameda Co., tunnel under estuary between here and Alameda, to A. J. Crocker Co., 58 2nd St., San Francisco, $3,882,958. Noted Feb. 5.

Ornamental Street Lighting System—San Diego, Calif.—For 160 Union metal lamps standards, Design 1775, on 8th, 9th, 10th, 11th and 12th Sts., to Walker & Martin, 402 West Wilshire Ave., Fullerton, $39,971. Noted Feb. 19.

Pier Extension—San Francisco, Calif.—State Bd. Harbor Commissioners, Ferry Bldg., 200 ft. creosoted pile shed, and 646 ft. track extension on north and south sides of Pier 40, to Clinton Constr. Co., 923 Folsom St., $96,400. Noted Mar. 26.

Hydro Line — Ontario — Ontario Hydro Comn., University Ave., Toronto, making surveys 55 mi. auxiliary hydro line from St. Thomas, via Melbourne to Sarnia. $200,000. Work will be done by day labor.

Grain Elevator — Owen Sound, Ont. — Great Lakes Elevator Co., 200 x 400 ft., grain elevator, 125 ft. high, concrete and steel, on water front, to Barnett & McQueen, Ft. William. Engrs. est. $450,000. Noted Mar. 5.

CONSTRUCTION NEWS

Engineering News-Record, April 9, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Power development, Carrillon, Que., E. N. Roberts preparing plans for hydro-electric development, $50,000,000.

Hotel, Chicago, Ill., Shoreland Hotel Co. having plans prepared, $8,000,000.

Hotels, clubhouses, hospital, etc., Ensenda, Mexico, Bexar Development Co. having plans prepared, $5,000,000.

Roads, Uniontown, Pa., Fayette Co., improving roads, $2,500,000.

Office, New York, N. Y., Cedar-William St. Corp., having plans prepared, $2,500,000.

Power and irrigation, Manteca, Calif., South San Joaquin Irrigation Dist. plan dam, $2,200,000; power plant, $2,500,000.

Schools, Seattle, Wash., city having plans prepared, $2,250,000.

Hotel, Chicago, Ill., E. A. Berchert having plans prepared, $2,000,000.

Grain elevator, Buffalo, N. Y., Standard Milling Co., plans elevator, $2,000,000.

Bids Wanted On Big Jobs

Warehouse, Chicago, Ill., Hibbard, Spencer Bartlett Co., $4,000,000.

Exchange and office, Toledo, Ohio, Ohio Bell Telephone Co. takes bids April 18, $2,000,000.

Theatre and office, San Antonio, Tex., J. Oppenheimer takes bids about May 1, $1,500,000.

Hotel and apartment, Oklahoma City, Okla., G. L. Miller & Co. soon take bids, $1,250,000.

Plant, Canton, Md., Gold Dust Corp., $1,000,000.

Large Contracts Let During Week

Power plant, Fresno, Calif., San Joaquin Light & Power Co. will build power plant, tunnel and transmission line, $4,500,000.

Theatre, Detroit, Mich., Detroit Metropolitan Corp to Lundoff-Bicknell Co., Cleveland, O., $4,000,000.

Railway improvement, Ohio, Pennsylvania R.R. for improvements under four contracts, $4,000,000.

Apartment, Cincinnati, O., C. P. Taft to Ohio Building and Constr. Co., $2,000,000.

Grain elevator, Buffalo, N. Y., Washburn-Crosby Co. to Folwell-Ahlskog Co., $1,000,000.

Bank, Boston, Mass., Five Cent Savings Bank to W. A. & H. A. Root, $1,000,000.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Apr. 10	Needham, Mass.	Apr. 9
Apr. 11	Locust Valley, N. Y.	Apr. 2
	Adv. Apr. 2 and 9.	
Apr. 11	Oyster Bay, N. Y.	Apr. 2
Apr. 13	Bellingham, Wash.	Mar. 12
Apr. 13	Menomonee Falls, Wis.	Apr. 9
Apr. 14	Milwaukee, Wis.	Apr. 9
Apr. 14	Spartanburg, S. C.	Mar. 5
Apr. 14	Garfield Heights (Cleveland P. O.), O.	Apr. 9
Apr. 14	Wisconsin Rapids, Wis.	Mar. 19
Apr. 14	Framingham, Mass.	Apr. 2
Apr. 14	New York, N. Y.	Apr. 9
Apr. 15	Manawa, Wis.	Apr. 2
Apr. 15	Apex, N. C.	Mar. 19
Apr. 15	Cleveland, O.	Apr. 9
Apr. 16	Steele, Mo.	Apr. 9
Apr. 17	Fulton, N. Y.	Apr. 9
	Adv. Apr. 9.	
Apr. 21	Mt. Union, Pa.	Apr. 9
Apr. 23	Boston, Mass.	Apr. 9
	Adv. Apr. 9.	
Apr. 27	Towson, Md.	Apr. 2
	Adv. Apr. 2 and 9.	
Apr. 28	Churchpoint, La.	Apr. 9
Apr. 28	High Point, N. C.	Apr. 9
	Adv. Apr. 9.	
May 11	Tallahassee, Fla.	Apr. 9
	Adv. Apr. 9.	

SEWERS

Bids Close		See Eng. News-Record
Apr. 10	Boston, Mass.	Apr. 2
Apr. 10	Trenton, N. J.	Mar. 26
Apr. 10	Dyer, Tenn.	Apr. 2
Apr. 13	Boston, Mass.	Apr. 2
Apr. 13	Providence, R. I.	Apr. 9
Apr. 14	Boston, Mass.	Apr. 2
Apr. 15	San Francisco, Calif.	Apr. 9
Apr. 15	Glasgow, Ky.	Mar. 26
Apr. 15	Wash., D. C.	Apr. 9
	Adv. Apr. 9.	
Apr. 16	Columbus City, Ind.	Apr. 9
Apr. 16	Cleveland, O.	Apr. 9
Apr. 17	Flint, Mich.	Mar. 26
Apr. 17	Blue Island, Ill.	Apr. 9
	Adv. Apr. 9.	
Apr. 20	Dayton, O.	Apr. 9
	Adv. Apr. 9.	
Apr. 21	Westwood, N. J.	Mar. 26
	Adv. Mar. 26 to Apr. 9.	
Apr. 22	Downers Grove, Ill.	Apr. 9
	Adv. Apr. 9.	
Apr. 22	Grand Rapids, Mich.	Apr. 2
Apr. 28	Tampa, Fla.	Apr. 9
Apr. 29	East Chicago, Ill.	Apr. 9
	Adv. Apr. 9.	

BRIDGES

Bids Close		See Eng. News-Record
Apr. 12	New Haven, Conn.	Apr. 2
Apr. 13	California	Apr. 2
Apr. 13	Newton, Kan.	Apr. 9
Apr. 14	Waukesha, Wis.	Apr. 9
Apr. 14	Big Piney, Wyo.	Apr. 9
Apr. 15	Phila., Pa.	Mar. 26
	Adv. Mar. 26 to Apr. 9.	
Apr. 15	Hollidaysburg, Pa.	Apr. 9
Apr. 17	Dayton, O.	Mar. 26
	Adv. Mar. 26 to Apr. 9.	
Apr. 20	California	Apr. 9
Apr. 21	Detroit, Mich.	Mar. 26
Apr. 23	Charleston, S. C.	Apr. 2
Apr. 24	Tennessee	Apr. 9
Apr. 24	Indiana	Apr. 9
Apr. 24	Georgia	Apr. 9
Apr. 27	Waco, Tex.	Apr. 9
May 1	Dayton, O.	Apr. 9
	Adv. Apr. 9.	

RAILWAYS

Bids Close		See Eng. News-Record
Apr. 13	Massachusetts	Apr. 9
May 7	New Jersey	Apr. 2
	Adv. Apr. 2 and 9.	

EXCAVATION, DRAINAGE IRRIGATION, LEVEES

Bids Close		See Eng. News-Record
Apr. 16	New York	Mar. 26
	Adv. Mar. 26 to Apr. 9.	
Apr. 17	New York	Mar. 26
	Adv. Mar. 26 to Apr. 9.	
Apr. 18	New York	Mar. 26
	Adv. Mar. 26 to Apr. 9.	
Apr. 27	Leesburg, Fla.	Mar. 12
	Adv. Mar. 12 to Apr. 9.	
May 1	Henderson, Ky.	Apr. 9

STREETS AND ROADS

Bids Close		See Eng. News-Record
Apr. 10	Terre Haute, Ind.	Apr. 9
Apr. 12	New York, N. Y.	Apr. 9
Apr. 13	Fall City, Neb.	Apr. 9
Apr. 13	New Jersey	Apr. 2
Apr. 14	Maryland	Apr. 2
	Adv. Apr. 2 and 9.	
Apr. 14	Marion, Ia	Mar. 19
Apr. 14	Norman, Okla.	Mar. 26
Apr. 14	St. Louis, Mo.	Mar. 26
Apr. 14	Louisiana	Mar. 26
Apr. 14	Columbus, Miss.	Mar. 26
Apr. 14	Virginia	Apr. 2
Apr. 14	Indianapolis, Ind.	Apr. 2
Apr. 14	Wabasha, Minn.	Apr. 2
Apr. 14	Indiana	Apr. 2
Apr. 14	West View, Pa.	Apr. 2
Apr. 14	Maryland	Apr. 9
	Adv. Apr. 9.	
Apr. 14	Garfield Heights (Cleveland P. O.), O.	Apr. 9
Apr. 14	Massachusetts	Apr. 9
Apr. 14	Indianapolis, Ind.	Apr. 9
Apr. 14	St. George, N. Y.	Apr. 9
Apr. 14	Long Island City, N. Y.	Apr. 9
Apr. 14	Wyoming	Apr. 9
Apr. 14	Kenosha, Wis.	Apr. 9
Apr. 14	St. Paul, Minn.	Apr. 9
Apr. 14	Kenilworth, Ill.	Apr. 9
Apr. 15	Arkansas	Apr. 9
Apr. 15	Denver, Colo.	Apr. 9
Apr. 15	Minneapolis, Minn.	Apr. 9
Apr. 15	Baltimore, Md.	Apr. 9
Apr. 15	St. George, N. Y.	Apr. 9
Apr. 15	Indiana	Apr. 9
Apr. 15	Newton, N. J.	Apr. 2
	Adv. Apr. 2 and 9.	
Apr. 15	Clayton, Mo.	Apr. 9
Apr. 15	Alabama	Apr. 9
Apr. 15	Iowa City, Ia.	Apr. 9
Apr. 15	Wisconsin	Apr. 9
Apr. 16	Wisconsin	Apr. 9
Apr. 16	New York, N. Y.	Apr. 9
Apr. 16	Brooklyn, N. Y.	Apr. 9
Apr. 16	Mansfield, O.	Apr. 9
Apr. 16	Indiana	Apr. 9
Apr. 16	Denver, Colo.	Apr. 9
Apr. 17	Denver, Colo.	Apr. 9
Apr. 17	Cincinnati, O.	Apr. 9
Apr. 17	Quebec	Apr. 9
Apr. 17	Middletown, N. Y.	Apr. 2
	Adv. Apr. 2 and 9.	
Apr. 17	Karnes City, Tex.	Apr. 2
Apr. 17	Neshanic, N. J.	Apr. 2
Apr. 18	Pennsylvania	Mar. 26
	Adv. Mar. 26 to Apr. 9.	
Apr. 18	Cleveland, O.	Apr. 9
Apr. 20	Cleveland, O.	Apr. 9
Apr. 20	Johnstown, N. Y.	Apr. 9
	Adv. Apr. 9.	
Apr. 20	Ontario	Apr. 9
Apr. 20	Plainfield, N. J.	Apr. 2
	Adv. Apr. 2 and 9.	
Apr. 20	Benson, Minn.	Apr. 9
Apr. 20	New Jersey	Apr. 9
	Adv. Apr. 2 and 9.	
Apr. 20	California	Apr. 9
Apr. 20	Seattle, Wash.	Apr. 9
Apr. 20	San Diego, Calif.	Apr. 9
Apr. 21	Indiana	Apr. 9
Apr. 21	Buffalo, Minn.	Apr. 9
Apr. 21	Maryland	Apr. 9
	Adv. Apr. 9.	
Apr. 21	Menasha, Wis.	Mar. 26
Apr. 21	Kentucky	Apr. 2
Apr. 21	Gloversville, N. Y.	Apr. 9
	Adv. Apr. 9.	
Apr. 22	Miami Beach, Fla.	Mar. 26
	Adv. Mar. 26 to Apr. 9.	
Apr. 22	Delaware	Apr. 2
	Adv. Apr. 2.	
Apr. 24	Americus, Ga.	Apr. 9
Apr. 24	Angleton, Tex.	Apr. 9
Apr. 24	New York, N. Y.	Apr. 9
	Adv. Apr. 9.	
Apr. 24	Memphis, Tex.	Apr. 9
Apr. 24	Tennessee	9
Apr. 24	Georgia	Apr. 9
Apr. 24	Madison, Wis.	Apr. 9

Bids Close		See Eng. News-Record
Apr. 27	Seattle, Wash.	Apr. 9
Apr. 27	San Augustine, Tex.	Apr. 9
Apr. 27	Monmouth Beach, N. J.	Apr. 9
Apr. 27	New Jersey Adv. Apr. 9.	Apr. 9
Apr. 29	Providence, R. I. Adv. Apr. 9.	Apr. 9
Apr. 29	Cape May, N. J. Adv. Apr. 9.	Apr. 9
May 1	Birmingham, Ala.	Apr. 9
May 13	Alabama	Apr. 9
May 15	Duluth, Minn.	Apr. 9
June 1	Duluth, Minn.	Mar. 12
June 10	Duluth, Minn.	Apr. 9

BUILDINGS—INDUSTRIAL

Apr. 13	McDonald, Pa.	Apr. 2
Apr. 15	Iron River, Wis.	Apr. 9
Apr. 15	Canton (Baltimore P. O.), Md.	Apr. 9

BUILDINGS—COMMERCIAL

Apr. 10	Boston, Mass.	Mar. 26
Apr. 13	McKeesport, Pa.	Apr. 2
Apr. 14	Phila., Pa.	Apr. 2
Apr. 14	Franklin, Neb.	Apr. 2
Apr. 14	Los Angeles, Calif.	Apr. 9
Apr. 14	Raleigh, N. C.	Apr. 9
Apr. 14	Baltimore, Md.	Apr. 9
Apr. 16	St. Paul, Minn.	Apr. 9
Apr. 20	Minneapolis, Minn.	Mar. 19
Apr. 23	Taylor, Pa.	Mar. 26
Apr. 28	Lincoln, Neb.	Apr. 2
May 1	Johnstown, Pa.	Mar. 19
May 7	San Antonio, Tex.	Mar. 26
July 14	Phila., Pa.	Feb. 19

BUILDINGS—EDUCATIONAL, RELIGIOUS

Apr. 11	Phila., Pa.	Apr. 9
Apr. 13	Harrisburg, Pa.	Mar. 19
Apr. 13	Harrisburg, Pa.	Mar. 26
Apr. 13	Phila., Pa.	Apr. 9
Apr. 15	Los Angeles, Calif.	Apr. 9
Apr. 15	Southington, Conn.	Apr. 9
Apr. 16	Racine, Wis.	Apr. 2
Apr. 16	Buffalo, N. Y.	Apr. 9
Apr. 17	Roxbury (Boston P. O.), Mass.	Apr. 2
Apr. 17	Hannibal, Mo.	Apr. 9
Apr. 20	Norwood, O.	Apr. 9
Apr. 20	Pasadena, Calif.	Apr. 2
Apr. 22	San Francisco, Calif.	Apr. 2
Apr. 22	Lincoln, Neb.	Apr. 9
Apr. 23	Lincoln, Neb.	Apr. 9

FEDERAL GOVERNMENT WORK

Apr. 10	Cement—Louisville, Ky. Adv. Mar. 12, 19, 26 and Apr. 9.	Mar. 12
Apr. 11	Valves—Florence, Ala. Adv. Apr. 2 and 9.	Apr. 2
Apr. 14	Tug—Milwaukee, Wis. Adv. Mar. 19 to Apr. 9.	Mar. 19
Apr. 15	Water Tank—Guantanamo Bay, Cuba	Mar. 12
Apr. 15	Removing Wreck—Norfolk, Va.	Mar. 19
Apr. 15	Post Office—Amherst, Mass.	Mar. 26
Apr. 15	Garage—Point St. George, Calif.	Mar. 26
Apr. 15	Roads-Nevada	Apr. 9
Apr. 16	Repairs—Governors Island, (Br. New York), N. Y.	Mar. 26
Apr. 16	Lime—Louisville, Ky. Adv. Mar. 19, 26 and Apr. 9.	Mar. 19
Apr. 20	Paving—Mare Island, Calif.	Apr. 9
Apr. 21	Recreation—Northampton, Mass. Adv. Mar. 26 to Apr. 9.	Mar. 26
Apr. 22	Repairs—New York City, N. Y. Adv. Apr. 9.	Apr. 9
Apr. 23	Repairs to Seawall-Governors Island (Br. New York), N.Y. Adv. Apr. 9.	Apr. 9
Apr. 28	Earthwork — St. Louis, Mo. Adv. Apr. 2 and 9.	Apr. 2
Apr. 28	Post Office—Russellville, Ark.	Apr. 9
Apr. 29	Metal Work—Louisville, Ky.	Apr. 9
Apr. 29	Paving — Pearl Harbor — H. T.	Apr. 9
Apr. 29	Power Line—Galveston, Tex.	Apr. 9
Apr. 29	Bridge—Great Lake, Ill.	Apr. 9
Apr. 30	Borings—Detroit, Mich. Adv. Apr. 2 and 9.	Apr. 2
Apr. 30	Steel Barges—Milwaukee, Wis. Adv. Apr. 2 and 9.	Apr. 2
Apr. 30	Dredging—Detroit, Mich. Adv. Apr. 2 and 9.	Apr. 9
Apr. 30	Borings—Detroit, Mich. Adv. Apr. 2 and 9.	Apr. 9
May 1	Dredging — Providence, R. I. Adv. Apr. 2 and 9.	Apr. 2
May 4	Breakwater—Duluth, Minn. Adv. Apr. 9.	Apr. 9
May 7	Dam-Newburg, Ind. Adv. Apr. 9.	Apr. 9

UNCLASSIFIED

Apr. 14	Fill—Phila., Pa.	Apr. 9
Apr. 14	Playhouse, etc.—Roselle (Ind. Br. Elizabeth), N. J.	Apr. 9
Apr. 14	Street Lighting System, St. Paul, Minn.	Apr. 9
Apr. 15	Park—Lowell, Mass.	Apr. 9
Apr. 16	Fire Protection — Newark, N. Y.	Mar. 12
Apr. 20	Core Borings—Camden, N. J. Adv. Apr. 2 and 9.	Apr. 9
Apr. 23	Tunnel—Sonyea, N. Y.	Mar. 26
Apr. 29	Wall—Peru, Ind.	Apr. 2
May 8	Tunnel—New York, N. Y.	Mar. 5

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Arlington — Town appropriated $55,000, extending mains in various streets. Engineer not selected.

Mass., Gardner — City and State plan main pipe line from Pear St. municipal supply to East Gardner. $35,000 appropriated. Engineer not selected.

Mass., Lexington — Town appropriated $20,000, extending mains in various streets. Engineer not selected.

Conn., Southington—Plans extending and repairing water system, etc. $60,000. S. H. MacKensie, Southington, engr.

N. Y., Dexter — Voted $90,000 bonds water supply system, incl. well, pumps, and tank. W. T. Field, Flower Bldg., Watertown, consult. engr.

N. Y., Sacket Harbor — Voted $70,000 bonds for water supply system, incl. well, pumps and elevated tank. W. T. Field, Flower Bldg., Watertown, consult. engr.

N. C., Hamlet—Plans extensive improvements, incl. coagulating basin, several large filters, steel tank and alterations in pumps and motors. $60,000.

Ala., Tuscaloosa—Plans improving pumping station, and extending main, etc. $175,000.

Miss., Aberdeen — Plans deep well and pump. $2,500. W. P. Dabney, Columbian Tower Bldg., Memphis, Tenn., engr.

Tenn., Humbolt — Plans additions and improvements to waterworks, incl. 100,000 gal reservoir, meters, etc. $75,000.

O., Rocky River—See "Sewers."

Ia., Plymouth — Plans waterworks improvements. $15,000. J. I. Carmany, city clk.

Minn., Waite Park—Voted $20,000 bonds, for waterworks. Engineer not announced.

Tex., Fredericksburg — Making preliminary plans complete waterworks, mains, pumping equipment, etc. $120,000 bonds to be voted. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Goree—Election Apr. 28, $35,000 bonds waterworks improvements. incl. 15 ft. diam. well, 50,000 gal. steel reservoir on 100 ft. tower and extensions. Douglas & Mitchell, Ward Bldg., Wichita Falls, engrs. Noted Jan. 15.

Tex., Harrisburg — Voted $35,000 bonds waterworks improvements. J. S. Deady, Colorado and Elm Sts., mayor.

Okla., Elk City — Making plans waterworks extensions, incl. 12 new wells, pumps, mains, motors, tank, pump houses, 15,000 ft. 10 in. rein.-con. pipe, etc. $139,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs. Noted Mar. 5.

Okla., Holdenville—Election Apr. 7, $128,000 bonds for waterworks, etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 12.

Okla., Vici—Plans new waterworks, incl. well, pump, motor, tank, valves, 20,000 ft. 2- to 6-in. c.i. mains, etc. $20,000. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Calif., Antioch — Plans election $25,000 bonds extending water and sewerage systems. R. Naas, city engr.

Calif., Azusa — Plans election $105,000 bonds, waterworks and distributing system. J. O. Durrell, city clk.

Calif., Eureka — J. Griffiths, supt. Pub. Wks., plans to purchase 2,000 ft. 8 in. National Matheson joint pipe, thickness 0.185 thousands galvanized and asphalted inside and outside.

Calif., Garberville — See "Excavation, Drainage, Irrigation, Levees."

Calif., Manhattan Beach—Election $25,000 bonds, extending water distributing system. L. Price, city clk.

Calif., Monterey Park—Plans election $25,000 bonds, extending water system. O. A. Stone, Hollingsworth Bldg., Los Angeles, engr.

Calif., Redwood City—Voted $30,000 bonds additional reservoir and extending water system. C. L. McDermitt, city engr. Noted Feb. 19.

Calif., San Diego—Plans extensions and replacements to distributing system. $400,000. F. A. Rhodes, city engr.

Calif., San Jacinto—Plans election bonds to exceed $25,000 to finance water and sewerage systems.

Ont., Woodstock—Water Bd. plans 6 mi. pipe line $40,000. J. Archibald, City Hall, supt.

Ont., Humberstone—Plans c.i. mains in various streets, electric pumps, pump house, reservoir, etc. $30,000. Engineer not selected.

BIDS DESIRED

Mass., Boston—Apr. 23, at office of Metropolitan Dist. Comn., 1 Ashburton Pl., about 7,380 lin.ft. hammer-weld, lock bar steel or riveted mains, etc., in Arlington and Somerville. W. E. Foss, dir. Water Div.; adv. E. N.-R. Apr. 9.

Mass., Boston — City taking bids high pressure fire pipes in Atlantic and Dorchester Aves., Summer, Richmond, Fulton, Congress and Lewis Sts., etc. $60,000 bonds. J. A. Rourke, comr. Pub. Wks.

Mass., Needham—Apr. 10, by Town Clerk, Town Hall, 800 ft. 18 in. c.i. pipe, 2 special castings, 100 ft. manhole frames, 100 manholes covers, and 400 steps. Barbour & Dixon, Tremont Bldg., Boston, engrs.

N. Y., Fulton — Apr. 17, by Common Council, rein.-con. suction well. Hazen & Whipple, 25 West 43rd St., New York City, consult. engrs.; adv. E. N.-R. Apr. 9.

N. Y., New York—Apr. 14, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc. in Amsterdam, 3rd and 11th Aves.

Pa., Mount Union—Apr. 21, by Bd. Water Comrs., storage reservoir known as Lake Mount Union at Singer's Gap on Carmichaels Run, 6 mi. south of here. D. W. Dillman, 91 Altoona Trust Bldg., Altoona, engr.

N. C., High Point—Apr. 28, by J. W. Hedrick, mayor and City Council, waterworks improvements. W. C. Olsen, Raleigh, consult. engr.; adv. E. N.-R. Apr. 9.

Fla., Tallahassee—May 11, at office of W. R. Galt, city mgr., two 16 in. x 4 x 4 in. "Y" special, three 4 in. gate valves standards, etc. B. H. Bridges, city aud. and clk; adv. E. N.-R. Apr. 9.

La., Churchpoint — Apr. 28, by Mayor and Bd. Aldermen, waterworks system, incl. 125,000 gal. concrete reservoir, 50,000 gal. elevated steel corrugated iron pump house, etc., Swanson-McGraw, United Fruit Bldg., New Orleans, consult. engrs.

O., Cleveland—Apr. 15, by Comrs. Cuyahoga Co., 6,800 lin.ft. 12 in. c.i. pipe for Impvt. 81, in County Sewer Dist. 2, and 6,750 lin.ft. 6 and 8 in. c.i. main for Impvt. 354, in County Sewer Dist. 3. To exceed $25,000. F. R. Williams, Court House, engr.

O., Garfield Heights (Cleveland P. O.)—Apr. 14, by City, 6,000 ft. 6 in. c.i. watermain and 300 ft. 12- to 18-in. tile sewer in 3 streets.

Wis., Menomonee — Apr. 13 (extended date), by W. J. Connell, village clk., water mains and sewers in various streets. W. F. Reichardt, North Main St., Watertown, engr. Bids rejected on pumping equipment and well, and will readvertise. Noted Mar. 19.

Wis., Milwaukee—Apr. 14, by D. W. Hoan, chn. Central Bd. Purchases, 2,500 tons 6- to 12-in. Class "C" c.i. pipe, f.o.b. cars Milwaukee. Former bids rejected. Noted Mar. 26.

Mo., Steele — Apr. 16, complete waterworks and sewerage system. $65,000. A. C. Moore, Independent Bldg., Joplin, consult. engr.

Tex., Irving—Fresh Water Dist., c/o L. Hancock, secy., taking bids pumping equipment for waterworks. Koch & Fowler, 606 Central Bank Bldg., Dallas, engrs.

Waterworks (Continued)

BIDS RECEIVED

Mass., Bridgewater—Bd. Water Comrs., stand pipe, from Petroleum Iron Wks., Sharon, Pa., $27,975. Barbour & Dixon, 1119 Tremont Bldg., Boston, engrs.

O., Cincinnati—Director Pub. Serv., Mar. 20, 750 ft. 36 in. c.i. pipe for Eden Park Reservoir, from U. S. Cast Iron Pipe & Fdry. Co., Addyston, $10,334. Engrs. est. $10,000. Noted Mar. 12.

O., Cincinnati—Hamilton Co., Mar. 24, 3,400 ft. 16 in. c.i. mains in Water Supply Line 7, Dist. 1 (Silverton), Contr. 2, and 10,000 ft. 8 in. c.i. mains in Water Supply Line 8, Dist. 2 (White Oaks) Contr. 1, from J. Dempsey, 2314 Kenton St., $20,570 and $24,173 respectively, engrs. est. $22,000 and $28,495 respectively; 7,838 ft. 6 and 8 in. c.i. mains in Water Supply Line 9, Dist. 1 (Montgomery Rd.), from W. Henninger, 7011 Montgomery Rd., Norwood, $15,937, engrs. est. $18,837. Noted Mar. 19.

O., Cincinnati — Directors Public Serv., Mar. 23, 19,110 ft. 6- to 20-in. c.i. mains in connection with water distribution system of Cincinnati in North Bend and Morton Rds., 71st and 72nd Sts., from W. Henningan, 7011 Montgomery Rd., Norwood, $38,665. Engrs. est. $45,000.

O., Cleveland—City, North Raw Water Main at Kirkland Pumping Sta., Mar. 27, 1,575 ft. 48 in. lock bar steel pipe, from D. Lowensohn, 8810 Woodland Ave., $53 per ft., total $83,475. Noted Mar. 19.

O., Cleveland—A. K. Hoare, comr. Purchases & Supplies, one 60 m.g. per day steam turbine reduction gear driven centrifugal pump for Kirkland Pumping Station, from Dravo-Doyle Co., 302 Penn. Ave., Pittsburgh, Pa., $128,000. Noted Mar. 12.

Minn., St. Paul—H. W. Austin, city purch. agt., one 69 in. steel tube Venturi meter with register, from Builders Iron Fdry., 9 Codding St., Providence, R. I., $3,775.

CONTRACTS AWARDED

Mass., Bridgewater—Bd. Water Comrs., about 10 mi. 6- to 14-in. mains in various streets, to B. Nicoll & Co., Inc., 294 Madison Ave., New York City, $78,686. Noted Mar. 12.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Aves. P, T and X, Rockaway Parkway, Montauk Ave., Crescent, West, Marsh, 89th, East 1st, 2nd, 36th and 95th Sts., here, to Grippo Contg. Co., 85 Webster Ave., Long Island City, $6,670. Noted Apr. 2.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., setting valves and hydrants, and connecting mains in Ave. A, 1st, 2nd and 3rd Aves., etc., to Wataga Contg. Co., 308 Lenox Ave., $24,500. Noted Apr. 2.

N. Y., St. George — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Clinton, Forrest, and Westervelt Aves., etc., here, to Wataga Contg. Co., 308 Lenox Ave., New York City. $112,900. Noted Apr. 2.

Md., Baltimore—Bd. Awards, galvanized w.i. pipe, coupling and malleable iron fittings, to Southern Supply Co., 315 North Calvert St., $12,195; c.i. pipe and fittings, to R. D. Wood & Co., 400 Chestnut St., Phila., $284,024. Noted Apr. 2.

O., Coltsville (mail Youngstown)—Mahoning Co. (Youngstown) new water lines, in Coltsville Twp., here, to Lloyd Contg. Co., Xenia, $127,926. Engrs. est. $148,000. Noted Mar. 26.

Ill., Lombard — Laying c.i. mains in Greenfield Ave. and vicinity and Parkside Dist., to G. F. Santry Co., Mallers Bldg., Chicago, $28,771.

Wis., La Crosse—Dept. Pub. Wks., c/o W. Fries, secy., 12,176 ft. 4- to 20-in. c.i. mains in various streets, etc., to De Graff Wolff, 985 Scheffer St., St. Paul, Minn., $43,450. Noted Mar. 26.

Ia., Grinnell — Waterworks equipment, incl. centrifugal pumps, air compressors, motors, piping, etc., to Electrical Equipment Co., 209 Grand Ave., Des Moines, $9,814.

Minn., Minneapolis — F. S. Gram, city purch. agt., two 48 in. flanged horizontal gate valves, to Rensselaer Valve Co., Monodnock Bldg., Chicago, Ill., $3,017 each. Noted Mar. 12.

Minn., Robbinsdale—For 22,150 lin.ft. 8- to 12-in. c.i. mains, etc., to Phelps-Drake Co., 623 Metropolitan Life Bldg., Minneapolis, $50,889. Noted Apr. 2.

Minn., St. Paul—To H. Mueller Mfg. Co., 512 West Cerro Gordo St., Decatur, Ill., 2,600 pieces ¾ in. corporation stops $1.16 each, 2,600 pieces ¾ in. curb stops $1.62 each, copper tubing, 10,000 lin.ft. 30 ft. lengths, 20,000 ft. 20 ft. lengths, 10,000 ft. 18 ft. lengths, 10,000 ft. 16 ft. lengths, 10,000 ft. 14 ft. lengths and 10,000 ft. 12 ft. lengths $0.1823 per ft.

Tex., Slaton—Extending present waterworks and sewerage systems, to Gantt-Baker Co., 1116 West Main St., Oklahoma City, Okla. $70,000 cost plus 10%.

Wash., Seattle—To Goetz & Brennan, Seaboard Bldg., mains in West Barton St., et al, 2,165 ft. 16 in. B, c.i. pipe $4.80 per ft., 2,756 ft. 16 in. C, c.i. pipe $5, 13,160 ft. 24 in. riveted steel pipe $7.10, 23 hydrants $130, total $62,593. Engrs. est. $60,639.

Sewers

PROPOSED WORK

Mass., Arlington — Bd. Selectmen plans extending sewers in various streets, $60,000 appropriated; and for new storm drains, $20,000 appropriated. Engineer not selected.

Mass., Lexington—Bd. Selectmen plans new sewer in Hancock St. $31,000 appropriated. Engineer not selected.

Mass., Needham—Bd. Sewer Comrs., plan extending lines in main streets, and connecting with Metropolitan sewerage system. $150,000 appropriated. Engineer not selected.

N. Y., Dexter—Voted $60,000 bonds for 4 mi. sewers. W. T. Field, Flower Bldg., Watertown, consult. engr.

N. Y., Sacket Harbor — Voted $30,000 bonds for 3 mi. sewers. W. T. Field, Flower Bldg., Watertown, consult. engr.

N. J., New Brunswick—City Comn. plans storm sewer along Lyle Brook. $40,000. A. Atkinson, city engr.

O., Akron—See "Streets and Roads."

O., Cincinnati—Plans 710 ft. 8- to 24-in. vitr. clay and 1,360 ft. 30- to 42-in. segmental block sewers in Eklins Alley, Court and Elm Sts. $40,250. F. Krug, City Hall, engr.

O., Garfield Heights (Cleveland P. O.)—Plans sewers in Sewer Dists. 3 and 4. $100,000. R. F. Munz, Town Hall, engr.

O., Minerva—Town plans purchasing site for sewage disposal plant, and sanitary sewers in various sections of city. $40,000-$50,000.

O., Rocky River—Takes bids in summer sewer and watermains in various streets, $150,000; also storm and sanitary sewers in Lakeview Rd., $60,000. E. H. Arnold, Town Hall, engr.

Ill., Herrin — Making preliminary plans disposal plant and sanitary sewers in various parts of city. $300,000. G H. Anderson, City Hall, engr.

Ill., Princeville—Plans sewerage system and sewage treating plant. $47,000. J. W. Maple, judge.

Mo., Chaffee — Defeated $30,000 bonds complete sanitary sewerage system, etc. $30,000. C. E. Smith & Co., Railway Exch., St. Louis, engrs. Noted Feb. 27 .

Mo., St. Louis—Making preliminary plans segmental block or brick and vitr. clay sewers in Baden Sewer Dist. 4. $167,000-$173,000. W. W. Horner, 300 City Hall, engr.

Ark., Smackover—Plans sanitary sewers in various streets. $35,000. Engineer not selected.

Tex., Galveston—Election May 12, $200,000 bonds sewer extensions. C. A. Holt, Jr., city engr.

Tex., San Antonio — Plans extending 4,500 ft. 72 in. and 84 in. rein.-con. sewers through city sewer farm to outfall sewer main, incl. 410 ft. siphon. $125,000 appropriated. I. Ewig, city engr.

Okla., Elk City—Plans 2 mi. new outfall sewers and disposal plant, incl. 12,000 ft. 15 in. vitr. clay pipe, Imhoff tank, etc. $35,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Holdenville—Election Apr. 7, $93,000 bonds for sewers. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Alhambra — Made specifications 60,404 lin.ft. 8 in. vitr. sewers, etc., in Sewer Dist. 12. M. H. Irvine, city engr.

Calif., Antioch—See "Waterworks."

Calif., Berkeley—Plans election $146,000 bonds for storm sewers. E. M. Hann, city clk.

Calif., Beverly Hills—Plans election $160, bonds to finance sewer outfall.

Calif., Brea—See "Streets and Roads."

Calif., North Sacramento—Making plans 68,000 ft. 5- to 15-in. sewers in various streets. $75,000 available. J. N. Bidwell, 1501 Del Paso Blvd., engr.

Calif., Porterville—Plans second election $50,000 bonds, sewage disposal plant, etc. F. Pease, city engr. Noted Feb. 26.

Calif., San Luis Obispo—Plans election approximately $25,000 bonds extending sewers in various streets. C. M. John, city clk.

Ont., New Toronto — See "Streets and Roads."

Ont., Toronto—East York Twp., Sammon Ave. Municipal Yard, plans rein.-con. sewage disposal plant. $50,000. G. R. Jack, twp. engr.

BIDS DESIRED

R. I., Providence — Apr. 13, at Office of City Clerk, City Hall, 1,500 ft. sewer in North Main St., J. H. Gainer, chn., Bd. Contr. and Supply.

D. C., Wash. — Apr. 15, at office Washington Suburban Sanitary Comn., Evans Bldg., New York Ave., c.i. pipe Contrs. 48-W. and 49-W, also fittings, Contr. 50-W. R. B. Morse, Hyattsville, Md., ch. engr.; adv. E. N.-R. Apr. 9.

Fla., Tampa — Apr. 28, by City Comn., City Hall, 10- to 30-in. concrete sewers etc. in various streets, Sect. 11, $25,000; 8- to 18-in. concrete sewers, etc. in various streets, Sect. 12, $25,000; 8- to 15-in. concrete sewers, etc. in various streets, Sect. 13, $40,000; 8- to 12-in. oncrete sewers, etc. in various streets, Sects. 14 and 15, $28,000. R. D. Martin, City Hall, engr.

O., Cleveland—Apr. 16, by City, sewer in Archmere Ave. S. W., Attica Rd. S. W., Bartter Ave. N. W., Briggs Rd. S. W. Bosworth Rd. S. W., Kenwanee Ave. N. E., Michell Ave. N. W., Rosena Ave. N. E., Schell Ave. S. W., East 85th, East 171st and West 146th Sts. To exceed $50,000. R. Hoffman, City Hall, engr.

O., Dayton—Apr. 20, at office Dept. Pub. Serv., storm sewer along Miami and Erie Canal, also North Dayton Sanitary relief and Dry Hollow Creek storm sewers, Projects 1 to 4 (inclusive). G. F. Baker, dir.; adv. E. N.-R. Apr. 9.

O., Garfield Heights (Cleveland P. O.)—See "Waterworks."

Ind., Columbia City — Apr. 16 by City Engineer, 5,805 ft., of 12 to 36 in. tile pipe in main sewer, 430 ft. 12 in. tile pipe in branch sewers. $40,500.

Ind., East Chicago—Apr. 29, by Bd. Pub. Wks., for Adler St. Sewage Pumping Station. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, consult. engrs.; adv. E. N.-R. Feb. 26.

Ill., Blue Island—Apr. 17, by Bd. Local Impvts., intercepting flood relief sewers, Special Assessment 279. A. L. Fox, Burnham Bldg., 160 North La Salle St., Chicago, engr.; adv. E. N.-R. Apr. 9.

Ill., Downers Grove — Apr. 22, by Bd. Trustees Downers Grove Sanitary Dist., at office of C. H. Bunge, atty., 2 systems of sanitary sewers and a system of house sewers. E. D. Otto, Downers Grove, engr.; adv. E. N.-R. Apr. 9.

Ill., Kenilworth — See "Streets and Roads."

Calif., San Francisco—Apr. 15, by Bd. Pub. Wks., rein.-con. sewers in 30th Ave. between Lincoln Way and Kirkham, and in Kirkham between 26th and 30th Aves. $100,000. M. M. O'Shaughnessy, city engr. Noted Apr. 2.

BIDS RECEIVED

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, 3,325 ft. sewer in Mill Brook Valley Sewer Sect. 78, North Metropolitan System in Arlington and Medford, from A. Bariffaldi, 52 Powder House Blvd., Somerville, $110,235. Noted Mar. 26.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Apr. 2, sewers in Riverdale Ave., etc., from M. Del Balso, 660 East 221st St., $6,610; Mace Ave., etc., from A. Musumeci, 277 East 146th St., $1,888; Seymour Ave., etc., from Slack & Slack Corp., 1621 Yates Ave., $64,020.

O., Idlewood (Cleveland Heights P.O.)—From Iafornaro Constr. Co., 2218 Murray Hill Rd., Cleveland, sewers in Edgerton Rd., b. brick 10,764, segment $9,558, Charney Rd., b. brick $15,290, segment $14,800, sewers, watermains and curb connections in 8 streets $61,218. Work involves 6,031 ft., 30- to 60-in. segmental block and 11,200 ft. 12- to 24-in. tile block pipe.

Wis., Milwaukee — J. H. Fowles, secy. Sewerage Comn., 508 Market St., cyclone chambers in dryer house in connection with sewage disposal plant on Jones Island, from Downey Heating Co., 256 11th St., $15,160.

Calif., Los Angeles — Cement sewer in Central Ave. between Florence and Man-

Sewers (Continued)

chester Aves., from J. Chutuk, 343 Wilcox Bldg., $138,118. Noted Mar. 26.

Calif., Los Angeles—City, 8,441 ft. 5 ft. 6 in. and 5,526 ft. 5 ft. sewers for Sect. 24, North Outfall Sewerage System, from Atkinson-Spicer Co., Chapman Bldg., semi-elliptical brick-concrete pipe, $238,500; from M. Simmunovich, 3305 West 66th St., Hyde Park, semi-elliptical concrete pipe, $219,-985; from R. A. Wattson, 1026 McCadden Pl., pre-cast concrete pipe, $425,778.

Calif., San Fernando — City Trustees, Mar. 23, 1,390 ft. 15 and 18 in. main outfall sewer complete Imhoff tank and sprinkling filter sewage disposal work, 510 ft. sewer trench, 4,200 cu.yd. excav., for tank and sprinkler filters, 56,000 lb. c.i. pipe, etc., from M. Matick, 1436 West 15th St., Los Angeles, $39,353. Engrs. est. $42,000.

CONTRACTS AWARDED

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, (**e. e. means engineers estimate**) to S. Ajazranzo, sewers in East 46th St. 73.5% e.e. $3,101; Argyle Rd. 73.73% e.e. $2,695, to Standard Constr. Co., 705 Park Ave., storm and sanitary sewer in East 18th St., 67% e.e. $8,219, 40th St., 72% e.e. $5,690, 73rd St., 78% e.e. $3,997, to Tomassetti & Co., 1133 60th St. Georgia Ave. 65.75% e.e. $4,391. Noted Mar. 19.

N. Y., Long Island City—M. E. Connolly in 163rd St., pres. Queens Boro, Queens Subway Bldg., temporary basin inlets to H. J. Mullins Contg. Co. Jamaica Ave. and 144th St., Jamaica, $225; sewers in Bway, to F. J. Kelly Co., Inc., 186 Joralemon St., Brooklyn, $40,197; sewers in 40th Rd., to C. Pettracca, $1,585; sewers in Winthrop Ave. to J. Gallo, 203 Division St., Brooklyn, B $40,974. Noted Apr. 2.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in White Plains Rd., to A. Gregorio & Co., 1129 8th Ave., $6,730, in Edison and Hammersley Aves., to Knight & DeMicco, 448 East Tremont Ave., $4,470 and $4,355 respectively; reconstructing sewer in Exterior St., to Fox Reynolds, 81 East 125th St., $129,440. Noted Apr. 2.

Md., Baltimore—Bd. Awards, City Hall, storm and sanitary sewers in Dists. G-14 and J-1, Storm Water Contr. 81, to D. C. McAleer, Phoenix Bldg., $161,959. Noted Apr. 2.

O., Akron—W. F. Peters, dir. Pub. Serv., Case and Johnston St. Trunk Sewer 200 ft. 36 in. rein.-con., 1,340 lin.ft. 42 in. brick, 830 lin.ft. 48 in. segmental block, 810 lin.ft. 54 in. tile and 1,550 ft. 12- to 25-in. vitr. pipe, and Willow Run Trunk sewer, 5,200 ft. 24- to 90-in. brick pipe to McAlonan Bros., 506 Woodland Ave., $65,203 and $294,975 respectively, engrs. est. $99,950 and $320,000 respectively; Portage-Sunnyside Dist. Trunk Sewer, 3,850 ft. 36- to 60-in. rein.-con. and brick pipe to F. George, 1657 Mahoning Ave., Youngstown, $56,422, engrs. est. $74,000. Noted Mar. 26.

Ill., Decatur—For 4,200 ft. intercepting and 1,900 ft. overflow sewers, etc., to File & Collins, Decatur, $147,000. Noted Mar. 26.

Ill., Lombard—For 8- to 15-in. sanitary sewers in Greenfield Ave. and vicinity and Parkside Dist., to G. F. Santry Co., Mallers Bldg., Chicago, $37,955.

Ill., Urbana — Urbana and Champaign Sanitary Dists., 7,000 ft. 8 and 12 in. sanitary sewers, to J. L. Johnson, Decatur, $13,347. Noted Feb. 12.

Wis., Milwaukee—J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., 7,310 ft. 36 in. concrete and 2,620 ft. 24 in. terra cotta sewers, etc. in 1st Ave. extension, to Wenzel & Henoch Co., 498 27th St., $296,570. Noted Mar. 19.

Tex., Slaton—See "Waterworks."

Ont., Ft. William—Will lay 8,000 ft. vitr. clay sewers in McLeod, McPherson and McIntyre Sts., by day labor, under supervision of C. B. Symes, city engr. $25,000.

Waste Disposal

PROPOSED WORK

Tex., Galveston — Election May 12, $75,-000 bonds garbage incinerator. C. A. Holt, Jr., city engr.

Bridges

PROPOSED WORK

N. J., Asbury Park—Berkeley—Carteret Hotel, Asbury Park, plans concrete bridge, with span 17 ft. high, 26 ft. roadway, to connect hotel with boardwalk stores, $100,-000. Warren & Wetmore, 16 East 47th St., New York City, engrs.

Ill., Rockford — Making plans 1,500 ft. concrete arch bridge. $300,000. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs.

Ark., Paragould — Paragould — Hopkins Bridge Impvt. Rd. Dist. 1, c/o D. G. Beauchamp, making preliminary plans 350 ft. steel and concrete bridge with 1,500 ft. viaduct approach. $57,000.

Tex., Anderson—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., Houston—H. L. Washburn, aud. Harris Co., and Howe & Wise, engrs., 1st Natl. Bank, soon take bids rein.-con. and steel bridge with two 250 ft. spans and 500 ft. concrete approach across San Jacinto River, on State Highway 3, between Liberty and Ft. Bend Co. lines. $225,000.

Tex., Jourdanton — See "Streets and Roads."

Tex., San Antonio — Takes bids about June 1, 110 ft. rein.-con., steel and concrete bridge with one or 2 spans, St. Marys and Crockett Sts. $45,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., engrs.

Tex., Seymour—See "Streets and Roads."

Calf., Oakland — Alameda Co. making preliminary plans replacing bridges at Hazel and A Sts. $30,000 or more. G. A. Posey, Oakland, co. surv.

Ont., London—East William Twp., Middlesex Co., plans one 95 ft. and two 30 ft. steel truss and beam spans, with two 24 ft. concrete piers and two 18 ft. abutments. $100,000. C. Talbot, County Bldg., engr.

BIDS DESIRED

Pa., Hollidaysburg—Apr. 15, by Comrs. Blair Co., 90 ft. span rein.-con. arch bridge at East Freedom, two 25 ft. span rein.-con. girder bridge at Allegheny Twp., 36 ft. span rein.-con. girder bridge on 6th Ave., Eldorado, and 25 ft. span rein.-con. girder bridge at Cross Keys. $125,000. C. C. Stout, Hollidaysburg, engr. Noted Jan. 8.

Georgia—Apr. 24, by State Hy. Dept., East Point, bridge over Upatoi Creek, on Columbus-Cusseta Rd., Federal Aid Project 404-B Columbus and Muscogee Counties, 145,000 lb. reinforcing, 1,275 cu.yd ocncrete, etc.; and bridge and approaches on Quitman-Thomasville Rd., Federal Aid Project 415-A, Brooks Co., 28,031 lb. reinforcing, 4.5 acres clearing, etc. W. R. Neel, highway engr.

Tennessee—Apr. 24, by State Dept. Hys. & Pub. Wks., Nashville, 80 ft. steel truss and three 40 ft. concrete span bridge over Hatchie River, on Federal Aid Project 100-B, Haywood Co. J. G. Creveling, highway comr.

Tennessee—See "Streets and Roads."

O., Dayton—May 1, by G. F. Baker, dir. Pub. Serv., City Hall, for Summit St. Bridge over Wolf Creek. Harrington, Howard & Ash, Kansas City and New York, consult. engrs.; adv. E. N.-R. Apr. 9.

Indiana—Apr. 24, by State Hy. Comn., Indianapolis, for 55 bridges in various counties incl. one bridge 800 ft. long with approaches over White River between Petersburg and Washington. Davis and Pike Counties. Total $900,000. Federal Aid appropriates $375,000 toward cost. W. J. Titus, Indianapolis, bridge engr.

Wis., Waukesha—Apr. 14, by C. J. Hahn, highway comr., Waukesha Co. Okauchee Bridge, 50 ft., and Baker Bridge, 30 ft., both rein.-con. $35,000.

Kan., Newton—Apr. 13, by A. Martin, city clk., 235 ft. deck arch bridge, 25 ft. over Sand Creek, at Bway. Ave., 948 cu.yd. concrete, 462 sq.yd. brick surfacing, 75,692 lb. reinforcing, etc. Kansas Eng. Co., 1233 Western St., Topeka, engrs.

Wyo., Big Piney—Apr. 14, by State Hy. Comn., Cheyenne, several 23 to 69 ft. span bridges, here, Sublette Co. $25,000. J. F. Seiler, highway engr.

Tex., Jacksboro — See "Streets and Roads."

Tex., Karnes City — See "Streets and Roads."

Tex., Linden—See "Streets and Roads."

Tex., Memphis—See "Streets and Roads."

Tex., Palestine — See "Streets and Roads."

Tex., San Augustine — See "Streets and Roads."

Tex., Waco—Apr. 27, by McLennan Co., 150 ft. riveted Pratt truss steel span bridge across Bosque River. $75,000. M. Hannah, Waco, engr.

California—Apr. 20, by State Hy. Comn., Sacramento, six 50 ft. rein.-con. girder span bridge on concrete piers, etc., over San Onofre Creek, San Diego Co. R. M. Morton, highway engr.

BIDS RECEIVED

Mass., Leominster—Bd. Pub. Wks., Mar. 30, 2 arch 65 ft. rein.-con. bridge over Nashua River, at Merrimac St., from J. Lorenzi, 453 Mechanic St., $23,650 for 42 ft. span, and $26,150 for 49 ft. span. Noted Mar. 26.

New Jersey—State Hy. Comn., Trenton, removing existing highway bridge and constructing new 89½ ft. bob-tailed swing span bridge over Alloways Creek, Route 5, Salem Co., from S. Campbell, Bridgeton, $59,173. Noted Mar. 12.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, 5 rein.-con. bridges over 20 ft. span on State Aid Project 187-B, Hardin Co., from M. C. Merrill Constr. Co., Bellville, Ill., $62,963. Noted Mar. 19.

Tex., Henrietta—See "Streets and Roads."

Tex., Houston—See "Streets and Roads."

CONTRACTS AWARDED

Mass., Northampton—Bd. Pub. Wks., City Hall, removing existing iron truss bridges and constructing Cooks Dam Bridges (2) over Mill River, on Main St., Leeds, to C. I. Hosmer, 40 Prospect St., Turners Falls, $22,395. Noted Mar. 12.

N. Y., Long Beach—Bd. Supervs. Nassau Co., Mineola, 62 ft. concrete bridge, over Barnum Island Creek on Long Beach Rd., here, to Andrew Weston, Inc., Woodmere, $109,326. Noted Jan. 22.

N. J., Newark—Bd. Freeholders Essex Co., 2 span 100 ft. plate girder, concrete deck bridge, at Lower Chatham, to Northern Constr. Co., 423 Amherst St., East Orange, $35,495. Engrs. est. $40,000. Noted Mar. 19.

Md., Baltimore—Bd. Awards, constructing Rogers Ave. Bridge at Western Maryland Ry., to B. F. Johnston & Co., 11 East Lexington St. $62,600. Noted Mar. 26.

La., Kingston — Kansas City Southern R.R., 11th and Wyandotte Sts., Kansas City, Mo., will build creosoted ballasted deck girder bridge near here, by day labor. $26,000. A. N. Reese, ch. engr.

La., New Orleans—Comn Council, bascule bridge over New Basin Canal, Carrolton Ave., to Lakeside Bridge & Steel Co., 53 West Jackson Bldg., $173,000. Noted Oct. 23.

Tennessee—See "Streets and Roads."

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, 7 rein.-con. bridges each over 20 ft. span on Milan-Weakley Co. line Rd., State Aid Project 193, Gibson Co., to Peterson & Earnhardt, Montgomery, Ala., $119,981. Noted Mar. 19.

Ia., Creston—See "Excavation, Drainage, Irrigation, Levees."

Neb., Plattsmouth—King of Trails Bridge Co., c/o S. S. Davis, secy., twenty-eight 50 ft. span transverse joist girder bridge over Platte River to Economical Bridge Assn., Lincoln, $94,342. This corrects report in Mar. 19 issue.

South Dakota—See "Streets and Roads."

Wyoming—State Hy. Comn., Cheyenne, 380 ft. steel truss bridge over Shoshone River, on Federal Aid Project 176-A, Big Horn Co., to McGuire & Blakesley, 415 First Natl. Bank Bldg., Great Falls, Mont., $54,473, engrs. est. $75,000; five 377.5 ft. span I-beam bridge over Pole and Boulder Creeks, on Federal Aid Project 140-A, Sublette Co., to J. F. Turpin, Wheatland, $26,-784, engrs. est. $35,000. Noted Mar. 19.

Tex., Eagle Pass — See "Streets and Roads."

Tex., Henrietta — See "Streets and Roads."

Tex., Houston—See "Streets and Roads."

Dams

PROPOSED WORK

Tenn., Greenville — Tennessee Eastern Electric Co., Johnston, plans to raise height of hydro-electric dam on Nolachucky River, near here. $500,000.

Calif., Victorville — See "Excavation, Drainage, Irrigation, Levees."

Railways

PROPOSED WORK

Texas—Texas & Pacific R.R., Texas & Pacific Bldg., Dallas, making plans roundhouse addition and yard improvements in

Railways (Continued)

South Dallas. $1,500,000. E. F. Mitchell, ch. engr.

California — See "Excavation, Drainage, Irrigation, Levees" under "Manteca."

California—Southern Pacific Ry. Co., 65 Market St., San Francisco, plans enlarging railroad yards, incl. extending tracks, stock yard with building, etc., in Marysville. $125,000. G. W. Bosche, ch. engr.

BIDS DESIRED

Massachusetts—Apr. 13 by Massachusetts Street Railway Co., 1 Beacon St., Boston, constructing about 2,400 ft., railway track on Water St., between Quincy and Sea Sts., in Weymouth and reconstructing about 2,600 ft., on Copeland St., in Quincy. Private plans.

CONTRACTS AWARDED

Louisiana — Kansas City Southern R.R., 11th and Wyandotte Sts., Kansas City, Mo., will build industrial tracks in Shreveport, by day labor. $30,000. A. N. Reese, ch. engr.

Ohio — Pennsylvania R.R., Penn Sta., Pittsburgh, Pa., double tracking freight line from Bayard to Canton, here, known as Canton, Bayard low grade cut-off, 2,250,000 cu.yd. earth and rock excav., etc., incl. 2 bridges 1 at Louisville and other over tracks of New York Central R.R., about 3.9 mi. section at Bayard to A. Guthrie & Co., Inc., 608 South Dearborn St., Chicago, Ill., 3.9 mi. section at Canton, to M. J. McMenamin, Commercial Trust Bldg., Phila., Pa., 3.9 mi. (one of middle) sections, to J. F. Casey Co., Aspinwall, Pittsburgh, Pa., 3.9 mi. other middle section, to Ferguson & Edmundson, Keystone Bldg., Pittsburgh, Pa. Total cost $4,000,000.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

N. Y., Buffalo—Dept. Pub. Wks., making plans straightening Part 2, Cazenovia Creek, 1,300 ft. concrete retaining wall to exceed $200,000. C. E. P. Babcock, Municipal Bldg., engr.

N. J., Asbury Park — Plans dredging Wesley Lake. $40,000-$50,000. G. W. Pittenger, city comr. Engineer not selected.

Ill., Momence — Spring Creek D. D. making preliminary plans 174,000 cu.yd. excav., levees, drainage ditches, etc. R. D. Gregg, City Hall, Kankakee, engr.

Calif., Garberville — J. E. Benbow, Eureka, plans irrigating 102 acres, concrete and wood storage dam, 23 ft. high, 300 ft. long on top, 275 ft. on bottom, 2,000 acre ft. capacity, also pumping plant, one 6 in., one 8 in. and two 4 in. centrifugal pumps, etc.

Calif., Manteca—South San Joaquin Irrigation Dist., Manteca, and Oakdale Irrigation Dist., Oakdale, plan election $2,200,000 bonds for Melones Project, incl. 585 ft. concrete Radius type dam, about 210 ft. high, creating reservoir of 112,000 acre ft. capacity, irrigation outlets 250 ft. below dam, 1 mi. pressure tunnel to power house, also railroad and pumping plant, etc. Power plant in connection with above to be constructed by Pacific Gas & Eletcric Co., Pacific Gas & Electric Bldg., San Francisco, approximately $2,500,000.

Calif., Victorville—Appleton Land, Water and Power Co., 604 Washington Bldg., Los Angeles, making plans developing 2,000 hp. to operate pumps for irrigating 20,000 acres, construction includes 16,000 ft. 7.5 x 3.5 x 4 ft. concrete lined ditch with arched concrete cover, and concrete multiple arch type storage dam, 100 ft. high, 200 ft. long on top, 30 ft. on bottom, storing 1,000 acre ft., here. H. Hawgood, H. W. Hellman Bldg., Los Angeles, engr.

Ont., Pembroke — Dept. Pub. Wks., Ottawa, soon takes bids dredging Pembroke Harbor, and repairing timber wharf. $64,000. K. M. Cameron, Hunter Bldg., Ottawa, ch. engr.

BIDS DESIRED

Ky., Henderson—May 1, at office of H. J. Knight, drainage comr. Henderson Co., constructing South Canoe Creek Ditch, 272,715 cu.yd. excav., 45 or 50 acres clearing right-of-way, removing timber from 4 mi. old Canoe Creek, etc.; also cleaning and straightening Elam Flat D. D., 131,715 cu. yd. excav. C. W. McElroy, Henderson, engr.

CONTRACTS AWARDED

Ia., Creston—Union Co., 102,750 cu.yd. excav. on road south of Afton, to Naylor Bros., Omaha, Nebr., $28,000; deck girder bridge and 10 box culverts, to J. W. Rusk, Afton, $18,739.

Streets and Roads

PROPOSED WORK

Mass., Arlington — Bd. Selectmen plans new roads and highway improvements. $112,000 appropriated. Engineer not selected.

Mass., Beverly—School Comn. and Bd. Alderman, plan grading grounds around New High School. $25,000 or more. Private plans.

Mass., Boston—Dept. Pub. Wks., plans probably bituminous macadam paving traffic side of Columbia Rd. $25,000 or more. J. A. Rourke, comr.

Mass., Cambridge (Boston P. O.)—City Council plans bituminous macadam resurfacing River St. To exceed $25,000. Engineer not selected.

Mass., Cambridge (Boston P. O.)—Plans rebuilding Ash St., and resurfacing Hammond, Winthrop and Plympton Sts., Huron, Park and Aberdeen Aves. To exceed $25,000. Engineer not selected.

Mass., Dedham — G. B. Nickerson, c/o Whiteman & Howard, engrs, 220 Devonshire St., Boston, making plans developing Nickerson Estate for building purposes, incl. streets, grading, laying sidewalks, etc. $25,000.

Mass., South Boston (Boston P. O.)—See "Unclassified."

Mass., Spencer—Bd. Selectmen plans reconstructing and improving highways and bridges, and new stone road in Northwest Dist. $37,000 appropriated. Engineer not selected.

Mass., West Roxbury (Boston P. O.) — Dept. Pub. Wks., Boston, plans laying out constructing Brookstone St. and Tool Gate Rd. as highway from Brandeen to Washington Sts., here. $25,000. J. A. Rourke, comr.

N. Y., Niagara Falls—Plans asphalt paving Main St. To exceed $50,000. F. A. Jenss, councilman.

N. J., Belmar—Plans widening 9th and 10th Ave. $30,000. C. W. Birdsall, city engr.

Pa., Connellsville — Election May 12, $300,000 bonds grading and paving North Arch St. et. al. J. E. Hoenshal, Connellsville, engr.

Pa., Pittsburgh—Plans grading, paving and curbing, etc., William Penn Pl. from 6th to Liberty Aves. $52,000. Dept. Pub. Wks., City-County Bldg., city engrs.

Pa., Uniontown — Fayette Co. election May 5, $2,500,000 bonds improving 60 mi. various roads. L. G. Clemmer, Uniontown, engr.

W. Va., Beckley — Raleigh Co. election Apr. 18, $660,000 bonds, improving roads in Town Dist. H. M. Scott, Beckley, engr.

W. Va., Morgantown — Monongalia Co. voted $145,000 bonds, improving roads in Clinton Dist. A. J. Baritell, Morgantown, engr. Noted Feb. 19.

W. Va., Moundsville—City Council plans surveys paving 8th St., etc. $43,000. A. Purdy, Moundsville, engr.

North Carolina—State Hy. Comn., Raleigh, making plans and surveys grading, etc., 6.4 mi. State Project 477, Wake Co. $45,000. C. M. Upham, Raleigh, engr.

Ga., Louisville — Voted $32,500 bonds, surfacing various streets.

Fla., Bartow—Polk Co. election Apr. 7, $184,000 bonds, building and hardsurfacing 8 mi. Rd. 1, $80,000 bonds 3.5 mi. Rd. 2, $80,000 bonds 3.5 mi. Rd. 3, $34,500 bonds 1.5 mi. Rd. 4, $46,000 bonds 2 mi. Rd. 5, $27,000 bonds 1½ mi. Rd. 8, $28,000 bonds 1.25 mi. Rds. 6 and 9, $46,000 bonds 2 mi. Rds. 7 and 10, $132,000 bonds 5.75 mi. Rd. 11, $41,000 bonds 1.75 mi. Rds. 12 and 13, $34,000 bonds 1.5 mi. Rd. 14, all foregoing in Dist. 12; $46,000 bonds asphalt on limestone paving 4 mi. Rd. 1, in Special Road and Bridge Dist (West side of Lake Howard), $66,000 bonds 6 mi. Rd. 2, $125,000 bonds 11 mi. Rd. 3 in Special Road and Bridge Dist. beginning at J. B. Scott Corner, $42,000 bonds 3.5 mi. Rd. 4, $36,000 bonds 3½ mi. Rds. 5 to 8 (inclusive). J. D. Raulerson. clk.

Fla., Clearwater—Pinellas Co. voted $120,000 bonds, double surface treatment with tarvia B, stone chip cover on 6 in. rock 3.5 mi. Rd. 7, West Clearwater Ave.; $144,000 bonds vitr. brick paving with asphalt filler or equivalent 3.5 mi. Rd. 1, Johns Pass Rd., $169,000 bonds 4.25 mi. Rd. 2, Diston Blvd., $123,000 bonds (?) mi. Rd. 3, Clearwater Ave., $92,000 bonds 2.25 mi. Rd. 4, 16th St. N., $133,000 bonds 3.25 mi. Rd. 5, Seminole Blvd., $144,000 bonds 3.5 mi. Rd. 6, 9th Ave. N. K. B. O'Quinn, clk.

Fla., Manatee—Plans grading, paving and hard-surfacing portions of Griffin St. and South Ave., $32,954; portions of Center and East Manatee Sts., $33,001. C. J. Majory, clk.

Miss., Aberdeen — Bids which were to have been opened Mar. 27 called off owing to technical flaw in advertising, for grading and concrete surfacing 40,000 sq.yd. various streets. Will readvertise. A. L. Dabney, 820 Columbian Tower, Memphis, Tenn., engr. Noted Mar. 5.

Miss., Aberdeen—Made plans asphalt surfacing various streets. $25,000. W. P. Dabney, Columbian Tower Bldg., Memphis, Tenn., engr.

Miss., Laurel — Jones Co. making preliminary plans grading, hard-surfacing, etc., 15 mi. various streets. J. L. Wheless, Carter Bldg., Hattiesburg, engr.

Miss., Lucedale—George Co. making preliminary plans grading, paving, etc., 27 mi. various roads. J. L. Wheless, Carter Bldg., Hattiesburg, engr.

La., Baton Rouge—Police Jury on Roads & Bridges Com. of Baton Rouge Parish, soon takes bids 14 mi. road in Dist. 14. $300,000. A. G. Mundinger, Baton Rouge, engr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, soon takes bids concrete surfacing 10 mi. Athens-Monroe Co. line Rd., 18 ft. and surfacing, probably waterbound macadam 5 mi. Morristown-Grainger Co. line Rd., 16 ft. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, soon takes bids surfacing 15 mi. Brownsville-Tipton Co. line Rd., Federal Aid Project 100, Haywood Co.; and concrete surfacing 8 mi. Clinton-Knox Co. line Rd., Anderson Co. J. G. Creveling, highway comr.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 20 mi. Decatur-Roane Co. line Rd., Meigs Co., and 10 mi. road from Crockett Co. line to Federal Aid Project 39, Dyer Co. J. G. Creveling, highway comr.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, plans concrete surfacing 5 mi. Bells-Madison Co. line Rd., Crockett Co. J. G. Creveling, highway comr.

Tennessee — Dabbs & Elliott Co., plans macadam surfacing, concrete sidewalks, and concrete curbing, etc., subdivision at old Hickory powder plant. $25,000.

Tenn., Nashville — Plans asphalt on macadam surfacing 18th Ave. from Division St. to Belcourt Ave. To exceed $25,000. W. W. Southgate, City Hall, city engr.

Tenn., Nashville — Davidson Co. Hy. Comn. plans to expend $130,000 oiling, etc., various roads and repairing bridges. S. R. Johnson, Court House, chn.

Tenn., Sneedville — Hancock Co. plans election $150,000 bonds for roads.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids in spring, improving Merriman Rd., 10,850 sq.yd. vitr.-brick, 5,400 lin.ft. stone curbing, 34,300 sq.ft., 4 in. concrete sidewalks, 4,000 cu.yd. earth excav., 3,550 ft. 12- to 48-in. sewer, etc. $109,500, Palisades Dr. et. al., 32,950 sq.yd. vitr. brick, 600 cu.yd. concrete, 19,300 lin.ft. stone curbing, 107,000 sq.ft. 4 in. concrete sidewalks, 16,000 cu.yd. earth excav., 6,650 ft. 12- to 36-in. sewer, $294,000. E. A. Kemmler, Delaware Bldg. engr.

O., Barberton—Soon takes bids improving High St. $90,000. H. Alcorn, city engr.

O., Canton—Bd. Control soon takes bids resurfacing, curbing and widening 4th St., N. W. $40,000, improving 5th St., N. W. $25,000, and Clarendon Ave. $45,000 to $50,000. W. E. Sarver, City Hall, engr.

O., Girard—Soon takes bids improving West Wilson St. and Ward Ave. $65,000.

O., Lakewood (Cleveland P. O.)—Plans grading, curbing and paving Detroit and Riverside Alleys, Crest Lane, Athens, Edgewater, Emily, Gridley, Gola, Lincoln, and Margaret Sts. $176,557. E. A. Fisher, City Hall, engr.

O., Marion — Takes bids in spring improving Merkel Ave. $35,000, Gurley Ave. $40,000, and Spencer St. $50,000.

O., Salem—Bd. Control soon takes bids probably asphalt paving Cleveland Ave. $35,000, and West Pershing Ave. $40,000. B. M. French, Salem, engr. Noted July 10.

O., Youngstown—Bd. Control soon takes bids resurfacing and widening East Rayen Ave., $50,000; paving 1 mi. Shermood Ave., $35,000; and improving Avondale Ave., $45,000. G. Turner, city engr.

Streets and Roads (Continued)

Mich., Port Huron—Made plans asphalt or concrete paving 32,800 sq.yd. 10th Ave., Stone and Garfield Sts. $150,000. E. R. Whitmore, city engr.

Ind., Indianapolis—Marion Co., plans grading and graveling 3 mi. 52nd St. Rd., 30 ft. $25,600; concrete paving 45,192 sq.yd. Tibbs Ave. Rd. $130,919, 22,528 sq.yd. Lyndhurst Dr. Rd. $54,077, 12,320 sq.yd. Allisonville Rd. $32,586, and 23,936 sq.yd. Hardin Rd. $54,295. G. Schmidt, Indianapolis, engr.

Ill., Peoria—Plans grading, curbing and vitr. brick on concrete surfacing approximately ½ mi. East Virginia Ave., 24 to 30 ft. $25,000. J. J. Jeffries, City Hall, engr.

Wis., Green Bay—G. J. Cormier, highway comr. Brown Co., takes bids about Apr. 15, concrete surfacing, etc., 7,500 lin. ft. Green Bay-Shawano Rd., Highway 16, 1 mi. New Franken Rd., Highway 54, 2 mi. West Holland Rd., Highway 57, and 2 mi. Greenleaf-Lake Rd., Highway 96. J. T. Donaghey, Madison, engr.

Wis., Watertown — F. Weber, city clk., soon takes bids graveling and rein.-con. or vibrolithic concrete paving, etc., 11,754 sq. yd. 3rd and Water Sts. To exceed $25,000. A. Kraeft, City Hall, engr. Noted Dec. 4.

Ia., Albion—Plans surfacing ½ mi. Main St. to city limits. $25,000. A. Williamson, city clk.

Ia., Council Bluffs—Making preliminary plans grading, hard-surfacing, etc., 24 blocks Ave. I, South 10th, South 11th, South 7th and North 9th Sts., 16th, 21st, 26th and North 10th Aves. $65,819. J. H. Wayne, city engr.

Ia., Davenport — Postponed bids which were to have been opened Mar. 11, bitulithic or sheet asphalt surfacing 28,435 sq.yd., concrete or brick surfacing 4,519 sq.yd., etc., various streets, and concrete surfacing 19,074 sq.yd., etc., various alleys. Will readvertise. H. W. Phillips, supt. Dept. Pub. Constr. Noted Mar. 5.

Ia., Tecumseh — Plans surfacing North 3rd St. $26,000. R. C. Gore, Tecumseh, engr.

Minn., St. Paul—Making plans brick and sheet asphalt paving East 6th St. between Arcade and Earl Sts.; also sheet asphalt paving, etc Berkeley Ave. between Fairview and Cretin Aves. $40,000 each. G. M. Shepard, city engr.

S. D., Sioux Falls—Minnehaha Co., plans paving about 3 or 4 mi. roads leading into Sioux Falls. $90,000-$120,000. F. E. Ward, co. aud.

Neb., Plattsmouth — Cass Co. making preliminary plans grading and gravel surfacing, etc., 17 mi. King of Trails Rd. south to Otoe Co. line. $45,000. G. R. Sayles, co. engr.

Arkansas—State Hy. Dept., Little Rock, making preliminary plans grading and graveling 9 mi. El Dorado-Junction City Rd., 18 ft. R. C. Limerick, highway engr.

Ark., Pocahontas — City and Randolph Co. making preliminary plans grading and hard-surfacing various streets in downtown section. $35,000.

Tex., Anderson—Grimes Co. making plans grading, gravel surfacing and bridging 8.8 mi. State Highway 45, 16 ft. $121,500. O. A. Seward, Jr., Navasota, co. engr.

Tex., Anderson — Grimes Co. making plans grading, rein.-con. surfacing and bridging 6.71 mi. State Highway 6, 18 ft. $75,000. O. A. Seward, Jr., Anderson, co. engr.

Tex., Boston — Bowie Co. making plans grading and gravel surfacing 6.5 mi. State Highway 5, 16 ft. $40,000; grading, rein.-con. surfacing and bridging 10.37 mi. State Highway 1, 18 ft., $356,000. D. K. Caldwell, Texarkana, co. engr.

Tex., Center—Shelby Co. making plans and soon takes bids grading and gravel surfacing 5.02 mi. State Highway 35, Federal Aid Project 348-A, 16 ft. $84,500. Titus & Dillon, Center, co. engrs.

Tex., Clarksville—Red River Co. making plans grading and gravel surfacing 8 mi. State Highway 66, 12 ft. $45,000. A. J. Goode, Clarksville, co. engr.

Tex., Dickens — Dickens Co. plans improving 12.44 mi. State Highway 18, Federal Aid Project 446-A, 16 ft. $130,000. J. W. Alger, Dickens, engr.

Tex., Fairfield—Freestone Co. takes bids after Apr. 15, improving 10.03 mi. State Highway 7, 18 ft. $260,000. J. E. Johnson, Teague, engr.

Tex., Falfurrias—Brooks Co. takes bids after Apr. 15, concrete paving 3.52 mi. State Highway 12, Federal Aid Project 429-I, 18 ft. $82,800. R. Harrison, Falfurrias, engr. Noted Apr. 9.

Tex., Galveston—Election May 12, $250,000 bonds paving various streets. C. A. Holt, Jr., city engr.

Tex., Gonzales — Gonzales Co. making plans grading and asphaltic macadam surfacing 19 mi. State Highway 81, 18 ft. $336,000. J. G. Irby, Gonzales, co. engr.

Tex., Groveton—Trinity Co. election May 2, $1,500,000 bonds improving various roads. F. J. Berry, Groveton, co. judge. Engineer not announced.

Tex., Harrisburg—Voted $50,000 bonds paving various streets. J. S. Deady, Colorado and Elm Sts., mayor.

Tex., Jourdanton—Atascosa Co. making plans bituminous macadam surfacing and bridging 25.7 mi. State Highway 9, 18 ft., $680,000; bituminous macadam surfacing 4.7 mi. State Highway 9-A, 18 ft., $117,000. J. V. Carnutte, Jourdanton, engr.

Tex., Montague—Montague Co. election Apr. 11, $65,000 bonds roads construction. H. S. Calloway, Montague, co. judge.

Tex., Post — Garza Co. voted $150,000 bonds surfacing road leading northwest of here. J. M. Boren, Post, co. judge. Engineer selected soon.

Tex., Rock Springs—Edwards Co. making plans macadam surfacing 7.88 mi. State Highway 41, Federal Aid Project 430-A, 16 ft. $100,000. W. E. Simpson Co., Natl. Bank Commerce Bldg., San Antonio, engrs.

Tex., Seymour—Baylor Co. making plans asphaltic macadam surfacing, grading and bridging 13.68 mi. State Highway 30, Federal Aid Project 452-A, 16 ft. $90,000. J. G. Rollins, Seymour, engr.

Tex., Waco—Election May 12, $250,000 bonds street improvements. V. G. Koch, city engr.

Tex., Waco — McLennan Co. defeated $50,000 bonds improving Axtell Rd., Dist. 1. May call another election soon. M. Hannah, Waco, co. engr. Noted Mar. 5.

Tex., Whitesboro—Defeated $50,000 bonds street paving. Municipal Eng. Co., 715 Praetorian Bldg., Dallas, engrs. Noted Mar. 5.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading and surfacing, etc. 5 mi. Jefferson Highway south of Crowder, 18 ft., Pittsburg Co. $150,000. J. M. Page, highway engr.

Okla., Alva—Plans grading, curbing and concrete surfacing 8,500 sq.yd. 2nd, 8th and Church Sts., Dists. 14, 16 and 18, $32,000. F. E. Devlin, 318 Sedgwick Bldg., Wichita, Kan., engr.

Okla., Fairfax — Plans grading, curbing and vitr. brick surfacing 5,580 sq.yd. 2nd St. $31,320. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

California — Joint High Dist. 2, (Santa Barbara) and San Luis Obispo Co. (San Luis Obispo), made plans grading 140,000 cu.yd. Cuyama Valley Highway. Burch & Beck, Commercial Bank Bldg., San Luis Obispo, engr.

Calif., Brea — Made plans improving various streets, 74,500 sq.ft. asphaltic concrete paving, 1,020 ft. 6 in. and 480 ft. 4 in. sewers and one 30 ft. concrete arch span bridge. $27,500. W. W. Hoy, Natl. Bank Bldg., Santa Ana, engr.

Calif., Carmel—Making plans 2,000 ft. 6 in. gravel and 7 in. concrete surfacing portions of 9th, 7th and 12th Aves., 18 ft. H. D. Severance, city engr. Noted Dec. 25.

Calif., Chico—Butte Co. (Oroville) made plans 3 in. asphaltic macadam on crushed rock base course surfacing 1.89 mi. Nord and Henshaw Aves., near here. H. H. Hume, Oroville, co. engr.

Calif., Delano — Making plans paving various streets. To exceed $25,000. J. Bates, Rowell Bldg., Fresno, engr.

Calif., Los Angeles — Making plans concrete paving, etc., east side of west basin. $35,000 or more. C. F. Nicholson, Los Angeles, harbor engr.

Calif., Pomona — Making revised plans 453,557 sq.ft. 6 in. concrete paving, etc., South Towne Ave. Former bids rejected.

Calif., Sacramento—Made plans 5.5 in. asphaltic concrete paving 1 mi. Stockton Blvd., 56 ft. A. J. Wagner, city engr.

Calif., Sacramento—Sacramento Co. making plans permanent paving approximately 12 mi. streets connecting improved sections of Garden Highway. C. W. Deterding, co. Sacramento, co. surv.

Calif., Salinas — Making plans grading, concrete curbing, 5 in. concrete paving portions of Pajaro St., and grading, concrete curbing, guttering, removing present water-bound macadam and placing 2.5 in. asphaltic concrete paving portions of Palmetto St. To exceed $25,000. H. Cozzens, city engr. Noted Dec. 4.

Calif., San Diego—Voted $130,000 bonds paving streets in and bordering Balboa Park. F. A. Rhodes, City Hall, engr.

Ontario—Dept. Provincial Highways, 110 University Ave., Toronto, plans 45,000 sq.yd. concrete paving $136,890, maintenance $2,150, gravel roads $15,000 in Essex Co. G. Hogarth, ch. engr.

Ontario—Dept. Provincial Highways, 110 University Ave., Toronto, plans asphalt paving 75,000 sq.yd. provincial highway from Bowmanville to Newcastle. $200,000. G. Hogarth, ch. engr.

Ont., Hamilton — Making plans asphalt paving, etc., 14,000 sq.yd. George St. $15,625, Park St. $14,740, Caroline St. $8,985, Hess St. $16,450. W. L. McFaul, city engr.

Ont., Hamilton — Plans asphalt paving George, Park, Caroline and Hess Sts. $60,000. W. L. McFaul, city engr.

Que., Montreal—Takes bids in April paving Gouin Blvd. in Ahuntsic and Bordwaux Wards, $245,000; also opening 2 mi. Decarie Blvd. from Cote St. Antoine to St. Laurent. $400,000. H. A. Tetreault, City Hall Annex, dir. Pub. Wks.

Ont., New Toronto—Plans concrete curbing, guttering, storm sewers and Warrenite bitulithic paving 5,000 sq.yd. 5th St. $25,000. W. C. Millard, town clk.

Ont., Niagara Falls—Making plans curbing, guttering and asphalt paving 16,000 sq. yd. Valley Way, Armory, Buttery, Dora, Haywood, Homewood, Jepson, May, Morrison, Orchard, Oak, Robert, Robinson, Spring, Stamford, St. Lawrence, Temperance and Clifton Sts. $75,000. T. S. Scott, city engr.

Ont., Stratford — Plans asphalt paving 13,000 sq.yd. Douro, Avon, Bay, Milton, Youngs, Stratford, Church and Birmingham Sts. $50,000. A. B. Manson, city engr.

Ont., Toronto—Toronto & York Good Rds. Comm., 57 Adelaide St. E., plans macadamizing ½ mi. Kingston Rds., 2½ mi. Kennedy Rd., ½ mi. Langstoff Rd., ½ mi. Pine Orchard Rd., 2½ mi. Sutton Rd., 1 mi. Lloydtown Rd., 2½ mi. King Rd., 1½ mi. York Rd., 2 mi. Vaughan Rd.; and granite curbing 1,000 lin.ft. Weston Rd. $500,000. E. A. James, 57 Adelaide St. E., engr.

BIDS DESIRED

R. I., Providence—Apr. 29, at the office of Water Supply Bd., City Hall, about 1 mi. earth road near Rockland and Ponaganset in Scituate. F. E. Winsor, ch. engr.; adv. E. N.-R. Apr. 9.

Massachusetts—Apr. 14, by Dept. Pub. Wks., State House, Boston, concrete paving 8,100 ft. highway in Agawam $80,000, 4,073 ft. highway in Andover $40,000, 6,183 ft., highway in Brookfield $60,000 and bituminous macadam paving 9,418 ft. highway in Paxton, $50,000. W. F. Williams, comr.

New York—Apr. 24, by A. W. Brandt, comr. highways, Albany, constructing highways in Allegany, Cattaraugus, Chautauqua, Delaware, Saratoga, Steuben and Sullivan Counties; reconstructing highways in Albany, Broome, Fulton, Otsego, Tioga and Orange Counties; adv. E. N.-R. Apr. 9.

N. Y., Brooklyn—Apr. 16, by Park Bd. at office Dept. Parks, 64th St. and 5th Ave., New York City, repairing with sheet asphalt and concrete pavement in parkways and park roads, here.

N. Y., Gloversville—Apr. 21, by Common Council, 10,300 sq.yd. rein.-con. paving, etc. H. J. Hanmer, city engr.; adv. E. N.-R. Apr. 9.

N. Y., Johnstown—Apr. 20, by G. E. Yerdon, city clk. rein.-con. paving Hall, Johnson, and Whitmore Aves., Bayard, West Green, South Market and West Clinton Sts.; adv. E. N.-R. Apr. 9.

N. Y., Long Island City — Apr. 14, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., sheet asphalt paving, etc. Charlotte Pl., 91st, Flushing, Jamaica, and Woodhaven Aves., Nurge, Troutman, 78th, and 101st Sts.

N. Y., New York—Apr. 12, by J. Miller, pres. Manhattan Boro, Municipal Bldg.,

Streets and Roads (Continued)

granite block repaving 1st Ave., and asphalt block repaving 177th St., etc.

N. Y., New York—Apr. 16, by J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block paving, etc. Park (4th), 11th and West End Aves.

N. Y., St. George — Apr. 14, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and concrete paving Hylan Blvd. from Brighton Ave. to highwater mark Arthur Kill, Contr. 5.

N. Y., St. George — Apr. 15, by J. A. Lynch, pres. Richmond Boro, Boro Hall, granite block repaving Bank St. and Richmond Terrace.

New Jersey—Apr. 20, by State Hy. Dept., Trenton, rein.-con. and gravel surfacing Route 4, Sect. 29, Barnegat-Manahawkin Rd., Ocean Co., also concrete, rein.-con. and recent granite block paving, etc. Route 5, Sect. 15A, Millburn Ave.-Irvington, Union and Essex Counties. A. L. Grover, secy.; adv. E. N.-R. Apr. 9.

New Jersey—Apr. 27, by State Hy. Dept., Trenton, rein.-con. and gravel surfacing Route 15, Sect. 7, Menantico Creek to Mauricetown Rd., Cumberland Co. A. L. Grover, secy.; adv. E. N.-R. Apr. 9.

N. J., Cape May—Apr. 29, by Bd. Chosen Freeholders Cape May Co., rein.-con. paving Roosevelt Blvd., Sects. 1 and 2, extending from Marmora to Ocean City. R. F. Smith, Marmora, co. engr.; adv. E. N.-R. Apr. 9.

N. J., Monmouth Beach — Apr. 27, by Boro Clerk, 8 in. rein.-con. pavement of slag or trap rock, or both. J. Strollo, Brent Good Bldg., Long Branch, boro engr.

Maryland—Apr. 14, by State Roads Comn., 601 Garrett Bldg., Baltimore, sheet asphalt paving 0.63 mi. Washington St., Baltimore, Contr. BC-48; adv. E. N.-R., Apr. 9.

Maryland—Apr. 21, by State Roads Comn., 601 Garrett Bldg., Baltimore, concrete paving 1.02 mi. Contr. M-56, Montgomery Co., and 0.68 mi. Contr. BC-51, Baltimore Co. graveling 2 mi. Contr. C-22, Calvert Co. J. W. Mackall, chn.; adv. E. N.-R. Apr. 9.

Md., Baltimore—Apr. 15, by Bd. Awards, sheet asphalt paving Calvert, Hanover and Charles Sts., Linwood and Fairmount Aves. B. L. Crozier, City Hall, highway engr.

Georgia—Apr. 24, by State Hy. Dept., East Point, concrete surfacing 5.076 mi. Atlanta-Newman Rd., Federal Aid Project 399-A, Coweta Co., and 137,000 gal. asphalt binder on 4.292 mi. Lawrenceville-Decatur Rd., Gwinnett Co. W. R. Neel, highway engr.

Ga., Americus—Apr. 24, by A. D. Gatewood, city clk., brick, concrete, asphalt or Willite surfacing 35,000 sq.yd. various streets.

Alabama—Apr. 15, by State Hy. Dept., Montgomery, clearing, grubbing, grading, etc., 17.237 mi. Greenville-Pineapple Rd., State Aid Project 7, Butler Co.; and 24.83 mi. Hunter Station-Chilton Co. line Rd., Federal Aid Project 148, Montgomery and Autauga Counties. W. S. Keller, highway comr.

Alabama — May 13, by State Hy. Dept., Montgomery, clearing, grubbing and grading, etc., 11.115 mi. road from Athens to Federal Aid Project 49, State Project 19, Limestone Co.; 5 mi. Cheatham Rd., Alabama Forest Project 1, Lawrence Co.; 17.78 mi. Wetumpka-Kellyton Rd., State Project 8, Elmore Co.; 12.216 mi. Ft. Payne-Valley Head Rd., State Project 13, DeKalb Co.; and 7.193 mi. Ozark-Troy Rd., State Project 37-B, Dale Co. W. S. Keller, highway engr.

Ala., Birmingham — May 1, by City Comn., asphalt on concrete surfacing 3 blocks 5th Ave., 50 ft. $42,150.

Tennessee—Apr. 24, by State Dept. Hys. & Pub. Wks., Nashville, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project)**, concrete or bituminous on concrete surfacing 3.42 mi. Haywood Co. line-Fayette Co. line Rd., 18 ft., F. A. P. 202, Tipton Co., 10.71 mi. Brownsville-Tipton Rd., 18 ft., F. A. P. 100, Haywood Co., 5.75 mi. Bells-Madison Co. line Rd., 16 ft., S. A. P. 165-B, Crockett Co., 5.43 mi. Clinton-Knox Co. line Rd., 18 ft., F. A. P. 82, Anderson Co.; 6 and 9 in. concrete surfacing 7.02 mi. Athens-Monroe Co. line Rd., 18 ft., F. A. P. 60, McMinn Co.; bituminous concrete surfacing 4.4 mi. S. A. P. 136, Franklin Co. line Rd., 16 ft., S. A. P. 103-B, Marion Co.; 6 in. slag surfacing 8.56 mi. Crossville-White Co. line Rd., 16 ft., S. A. P. 130-C, Cumberland Co.; bituminous macadam on crushed stone, or 2 in. bituminous concrete on concrete surfacing 3.11 mi. Morristown-Grainger Co. line Rd., 16 ft., S. A. P. 160-B, Hamblin Co.; rein.-con. drainage structures and head walls on 4 mi. Monteagle-Pelham Rd., S. A. P. 190, Grundy Co.; three 30 ft. span rein.-con. bridge over Trammel Creek, S. A. P. 127-B, Sumner Co. J. G. Creveling, highway comr.

O., Cincinnati—Apr. 17 by Director Pub. Serv., improving Court St., 200 sq.yd. granite block repaving 4,400 sq.yd. asphalt, 415 lin.ft. granite curbing, 2,500 lin.ft. cement sidewalks, $28,947; Augusta St., 3,200 sq.yd. granite block paving, 880 lin.ft. granite curbing, 1,000 sq.ft. cement sidewalks, etc., $34,839. F. Krug, City Hall, engr. Noted Feb. 19.

O., Cleveland—Apr. 18, by Comrs., Cuyahoga Co. paving, Bean Rd., No. 3 and State Rd. To exceed $75,000. F. Lander, Court House, engr.

O., Cleveland—Apr. 20, by Bd. Educ., Sixth St. Clair Bldg., grading and landscaping work at Thomas Jefferson and Paul Revere Schools. To exceed $25,000. Private plans.

O., Garfield Heights (Cleveland P. O.)—Apr. 14, vitr. brick, sheet asphalt or concrete paving, Edgepark Ave., Garfield Parkway and East 114th St. To exceed $25,000. R. F. Munz, Town Hall, engr.

O., Mansfield—Apr. 16, by H. C. Lynch, Dir. Pub. Serv. and Safety, paving with brick, block, concrete or asphalt, Dickson, Highland, Helen and Willis Aves., Flint, Ford, Henry, Poplar and West 3rd Sts., sheet asphalt surfacing Bowman, and Benton St., and Lexington Ave. Work involves about, 12,100 cu.yd. and 16,000 sq.yd., grading, 35,000 sq.yd. paving, 14,300 lin.ft. curbing, etc.

Indiana—Apr. 15, by C. Gray, state engr., Indianapolis bituminous surface treating, 5.4 mi. State Rd. 12, Sect. M, and 5.41 mi. State Rd. 39, Sect. A-2, both Marion Co.

Indiana—Apr. 16, by C. Gray, state engr., Indianapolis, bituminous macadam on waterbound macadam paving, 83.398 mi. roads in Adams, Allen, Wells, Henry, Delaware, Grant, Ohio, Dearborn, Harrison, Floyd, Lawrence, Monroe, Morgan and Clark Counties.

Indiana—Apr. 21, by State Hy. Comn., Indianapolis, hard surfacing 88 mi. roads in various counties $2,400,000 and gravel surfacing 55 mi. highways in various counties. $700,000. C. Gray, highway engr.

Ind., Indianapolis — Apr. 14, by G. Schmidt, engr., concrete paving, 17,634 sq. yd. Hardin Rd. for Marion Co. $67,754.

Ind., Terre Haute — Apr. 10, by R. E. Givans, engr. Vigo Co., concrete surfacing 42,240 sq.yd. Myers Rd. $123,450.

Ill., Kenilworth—Apr. 14, by Bd. Local Impvts., J. C. Murray, pres., grading, curbing, sewers, concrete surfacing, etc. Kenilworth Ave. C. J. Taylor, city clk.

Wisconsin—Apr. 15, by State Hy. Comn., at Div. Office 3, Nicolet Bldg., Green Bay, improving 4.29 mi. Green Bay-Oconto-Marinette Rd., Federal Aid Project 392-A, Oconto Co., 4.36 acres clearing, 22,695 cu. yd. earth and 3,430 cu.yd. borrow excav., 50,947 sq.yd. concrete surfacing, etc.; 10.2 mi. Shawano-Antigo Rd.; (Phlox-Neopit Sect.) Federal Aid Project 376-A, Shawano Co., 34.98 acres clearing, 58,980 cu.yd. earth, 3,236 cu.yd. borrow, 1,676 cu.yd. loose rock and 1,032 cu.yd. solid rock excav., 19,442 cu. yd. gravel surfacing, etc.; and 4.97 mi. Shawano-Bonduel Rd., Federal Aid Project 345-A, Shawano Co., 24,672 cu.yd. earth, 225 cu.yd. loose rock and 542 cu.yd. solid rock excav., 59,557 sq.yd. concrete surfacing, etc. J. T. Donaghey, Madison, highway engr. Noted Jan. 22.

Wisconsin—Apr. 16, by State Hy. Comn., at Div. Office 8, First Natl. Bank Bldg., Superior, improving 6.33 mi. Hayward-Cable Rd., Federal Aid Project 406-A, Sawyer Co. and 2.36 mi. Seeley-Cable Rd., Federal Aid Project 406-B, Bayfield Co., 21.86 acres clearing, 58,080 cu.yd. earth, 4,840 cu.yd. borrow, and 10,300 cu.yd. loose rock excav., 17,761 cu.yd. gravel surfacing, etc. J. T. Donaghey, Madison, highway engr.

Wis., Kenosha—Apr. 14, by J. F. Herzog, highway comr. Kenosha Co., concrete surfacing, etc. 1.04 mi. Bristol Rd., 3.52 mi. Burlington Rd. and 1.94 mi. Somers Rd., all 18 ft. J. T. Donaghey, 444 Milwaukee St., Milwaukee, engr.

Wis., Madison—Apr. 24, by H. C. Buser, city clk., rein.-con. paving, etc. various streets. $260,000. E. E. Parker, City Hall, engr. Noted Mar. 5.

Ia., Iowa City—Apr. 15 at office Auditor Johnson Co., grading, etc., 5.054 mi. road south of here.

Minn., Benson—Apr. 20, by D. P. Carney aud. Swift Co., 59,176 cu.yd. Job 2501, 37,483 cu.yd. Job 2502, and 15,670 cu.yd. Job 2506. $25,000. L. R. Johnson, Benson, engr.

Minn., Buffalo — Apr. 21, by E. R. Anderson, aud. Wright Co., grading, etc. 7.4 mi. Job 2501, State Aid Road 9 ,85,361 cu.yd. earth, 255 cu.yd. loose rock, and 225 cu.yd. solid rock excav., 31,957 cu.yd. overhaul, etc. $26,000. W. E. Duckett, Buffalo, engr.

Minn., Duluth — May 15, by W. H. Tischer, city comr., concrete curbing, sidewalks and concrete paving 9,473 sq.yd. 11th Ave. $42,831. J. Wilson, city engr.

Minn., Duluth — June 10, by W. H. Tischer, city comr., grading, curbing, and concrete paving 1,140 sq.yd. 45th Ave., East and Wyoming Sts. $54,075. J. Wilson, city engr.

Minn., Minneapolis—Apr. 15, by F. S. Gram city purch. agt., 5,282 cu.yd. binder, crushed lime stone or gravel, for City Street Dept. N. W. Elsberg, city engr.

Minn., St. Paul—Apr. 14, by H. W. Austin, city purch. agt., 3,700 bbls., portland cement, 2,030 cu.yd. crushed rock or washed gravel, 133,965 lbs. reinforcing, etc. for paving Snelling Ave. between Randolph St. and Otto Ave. G. M. Shepard, city engr.

Neb., Fall City—Apr. 13, by M. Naylor, city clk., asphaltic concrete or 6 in. concrete paving various streets.

Mo., Clayton—Apr. 15, by Clerk St. Louis Co. 100 cars 60-70 per cent road oil, delivered at any point in county as ordered during year. R. Jablonsky, Clayton, co. engr.

Mo., Steele—See "Waterworks."

Arkansas—Apr. 15, by State Hy. Dept., Little Rock, grading, bridging and gravel surfacing 8.93 mi. Federal Aid Project 221A, Union Co. 11.08 mi. Federal Aid Project 180-B, Poinsett Co., 2.57 mi. Leola Poyen Rd., Impvt. Dist. 4, Federal Aid Project 172-A, Grant Co., 9.37 mi. Federal Aid Project 190-B, Lee Co., and 5.05 mi. Federal Aid Project 192-B, Lee Co., all 18 ft. R. C. Limerick, highway engr.

Tex., Angleton—Apr. 24, by H. W. Munson, Jr., Angleton, surfacing with crushed rock, shell and bituminous topping 10.88 mi. State Highway 19, Federal Aid Project 367-B, 18 ft. $160,000; and 6.59 mi. Federal Aid Project 367-A, 18 ft., $90,000, for Brazoria Co. Noted Mar. 19.

Tex., Coleman—R. V. Wood, city clk., and Elrod Eng. Co., engrs., Elks Bldg., Sweetwater, taking bids surfacing 8,900 sq.yd. various streets with No. 1, 3 in. vertical fibre brick. $26,000.

Tex., Jacksboro—Apr. 14, by H. C. McClure, judge Jack Co., grading and bridging 12.84 mi. State Highway 25, State Aid Project 568-B, 26 ft. $79,000. G. R. Johnstown, Jacksboro, co. engr.

Tex., Karnes City — Apr. 17, by D. O. Klingeman, judge Karnes Co., grading and bridging 9.05 mi. State Highway 16, Federal Aid Project 434-D. $59,824. O. N. Powell, Karnes City, co. engr.

Tex., Memphis—Apr. 24, by A. C. Hoffman, judge Hall Co., grading, gravel surfacing and bridging 5.05 mi. State Highway 18, State Aid Project 572, 16 ft. $43,000. C. L. Hasie, Box 168, engr.

Tex., Linden—Cass Co. taking bids grading and bridging 9.45 mi. State Highway 48, Federal Aid Project, 457-C, $69,275; and 6 mi. State Highway 48, 18 ft. $60,000. F. E. Hess, Linden, co. engr.

Tex., Palestine — Apr. 14, by T. M. Campbell, Jr., aud. Anderson Co., grading and bridging 10.75 mi. State Highway 43, Federal Aid Project 453-C, 26 ft., $122,800; 9.75 State Highway 19, Federal Aid Project 403-C, 18 ft., $87,042. E. W. Davis, Palestine, co. engr. Noted Mar. 26.

Tex., San Augustine—Apr. 27, by W. C. Gray, judge San Augustine Co., grading and bridging 2.45 mi. State Highway 8, Federal Aid Project 562. $40,000. W. A. French, San Augustine, engr.

Tex., Waco — Apr. 27, by V. G. Koch, engr., Waco, improving 10 streets, 86,758 yd. paving, 7,651 yd. topping, 43,112 ft. gutter, 16,672 ft. curb, 21,440 yd. earth

Streets and Roads (Continued)

excav., etc., for City. $170,000. Noted Mar. 26.

Colo., Denver—Apr. 15, by Dept. Impvt. & Parks, asphaltic concrete paving 12 blocks each Capitol Hill Paving Dist. 17 $47,357, Dist. 18 $52,064, Dist. 19 $54,137, and Dist. 20 $60,160.

Colo., Denver—Apr. 16, by Dept. Impvt. & Parks, concrete paving 12 blocks each Alley Paving Dist. 120, $30,956 and Dist. 121, $31,492.

Colo., Denver—Apr. 17, by Dept. Impvts. & Parks, asphaltic concrete paving 12 blocks each Capitol Hill Paving Dist. 21 $57,230, Dist. 22 $148,623, Dist. 23 $50,629, and Dist. 25 $57,751.

Wash., Seattle—Apr. 20, concrete walks on Waters Ave., et al. $110,000. Former bids rejected. J. C. Blackwell, city engr. Noted Apr. 2.

Wash., Seattle—Apr. 27, by Comrs. King Co. grading and concrete paving 1¼ mi. 10th Ave. N.E. from city limits to 110th St. $40,000. T. R. Beeman, Seattle, engr.

Wyoming—Apr. 14, by State Hy. Comn., Cheyenne, grading, etc. 15 mi. Big Piney-Daniel Rd., Federal Aid Project 177, Sublette Co. $109,000; and grading, surfacing, etc. 3 mi. Kirby-Worland Rd., Federal Aid Project 171, Washakie Co., $49,000. Z. E. Sevison, Cheyenne, highway engr.

California—Apr. 20, by State Hy. Comn., Sacramento, widening with asphaltic macadam surfacing 6.6 mi. highway between San Pablo Creek and El Ciervo, Contra Costa Co. R. M. Morton, Sacramento, highway engr.

California—Apr. 20, by State Hy. Comn., Sacramento, concrete paving, etc. 5.6 mi. highway between San Juan Creek and Gallivan, Orange Co. R. M. Morton, highway engr.

Calif., Lakeport — City Trustees taking bids 6 in. vibrolithic concrete paving, etc., Main St. To exceed $50,000. R. E. Donohue, city engr. Noted Oct. 2.

Calif., San Diego—Apr. 20, by A. H. Wright, city clk., improving Irving Ave. and N St., 211,320 sq.ft. 1.5 in. asphaltic concrete on 2.5 in. bituminous, 1,789 sq.ft. concrete sidewalks, etc. F. A. Rhodes, city engr.

Quebec—Apr. 17, by J. L. Boulanger, deputy minister highways, Quebec, Amiesite surfacing 25.053 mi. road in Laprairie Parish.

Ontario—Apr. 20, by S. L. Squires, deputy minister Dept. Pub. Highways, Parliament Bldg., Toronto, concrete paving 64.26 mi. various roads, $2,275,000, asphaltic concrete paving 7.44 mi. various roads, $300,00, penetration macadam paving 10.4 mi. various roads, $200,000, waterbound macadam paving 18.08 mi. various roads. $350,000; grading various roads 10,000. G. Hogarth, ch. engr.

BIDS RECEIVED

Rhode Island—State Bd. Pub. Rds., State House, Mar. 25, from Framigliette Bros., 166 Bway., Providence, bituminous macadam paving, penetration method, Job 2501 $152,747, 2502 $57,290, and 2503 $54,966. Noted Mar. 12.

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, Apr. 1, from W. J. McHale Contg. Co., 1250 Jefferson St., grading, curbing, etc., Bay Ridge Ave. $3,248, from J. F. McHugh, East 42nd St. $1,866, from Grimm Contg. Co., 170 McKinley St., East 28th St. $2,315, from G. M. Mandatto, 129 29th St., West 6th St. $4,630, 76th St. $2,923, 66th St. $3,472, 80th St. $2,469, from T. V. Scott, 671 Halsey St., Ave. T, $1,396, 54th St. $1,729, from Carberry-Block Corp., 45 South 9th St., 80th St. $3,162; from Cranford Co., 52 9th St., asphalt paving Bay Ridge Ave. $7,886, 71st St. $7,492, 76th St. $7,418, 82nd St. $8,682, from Cleveland Trinidad Asphalt Paving Co., Flushing, East 28th St. $4,340, East 31st St. $3,780, from M. J. O'Hara, 717 65th St., Ave. T $3,468, 76th St. $7,243, 77th St. $7,503; from Brooklyn Alcatraz Co., 407 Hamilton Ave., recurbing and asphalt paving 6th Ave. $6,995, Bway. $10,476. Noted Mar. 26.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 6, sheet asphalt repaving Lincoln and Van Wyck Aves. from Uvalde Asphalt Paving Co., 1 Bway., New York City, $97,650 and $63,645 respectively, Fresh Meadow Rd., from W. P. MacDonald Constr. Co., 342 Madison Ave., New York City, $67,775, Old South Rd. from city line to Woodhaven Ave. and Old South Rd. from Long Island R.R. to Three Mile Mill Rd., from Sicilian Asphalt Paving Co., 41 Park Row, New York City, $68,460 and $162,240 respectively. Noted Apr. 2.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Apr. 1, repairing wood block, granite block and oak key block pavements in railroad area, from C. Helbock Co., 633 Wales Ave., $42,400; repairing asphalt pavement in railroad area, from Cleveland Trinidad Paving Co., Flushing, $72,300; repaving East 124th St., from Gaffney Constr. Co., 50 East 42nd St., $7,909; granite block repaving West 124th St., from Asphalt Constr. Co., 208 Bway., $22,689; laying and relaying sidewalks when and where directed in 1925, from J. Meehan & Sons, 74 Cortlandt St., $16,981. Noted Mar. 26.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Apr. 2, grading, setting curb, and sidewalks on Sagamore St., from C. L. Strada, $17,553; sheet asphalt paving Holland Ave., from C. D. Beckwith, 2875 Bway., $23,369, and Sheridan Ave. from Gaffney Constr. Co., 50 East 42nd St. $26,371.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro., Apr. 1, grading and concrete paving Hylan Blvd., Contr. 4, from Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $259,871. Noted Mar. 26.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Stuyvesant Pl. and Bway., from J. E. Donovan, Richmond Terrace, Port Richmond, $30,263. Noted Apr. 2.

N. J., Deal—Ocean Twp. at Oakhurst, concrete paving 8,280 sq.yd. Roseld Ave., from R. B. Cahill Co., Newark, $33,884. Noted Mar. 12.

N. J., Williamstown—Bd. Freeholders Gloucester Co. (Woodbury), concrete paving 40,158 sq.yd. Crosskeys-Williamstown Rd., here, from Acchione & Canusso, 804 South 12th St., Phila., $144,726.

Maryland—State Rd. Comn., Baltimore, concrete paving 1.72 mi. Contr. Q-33, Queen Annes Co., from P. D. Phillips & Bros., Main and Division Sts., Salisbury, $41,991; 3 mi. Contr. B-12 D, Baltimore Co., from P. Reddington & Son, 2 East Lexington St., Baltimore, $31,623; 1.5 mi. Contr. K-26, Kent Co., from Kauffman Constr. Co., Denton, $24,355; 2.03 mi. Contr. K-28, Kent Co., from Slacum, Brohawn & Woolford, Cambridge, $51,805; 5 mi. Contr. B-20-B, 1.5 mi. Contr. B-1A, and 2 mi. Contr. B-68, all Baltimore Co., from H. D. Campbell & Sons Co., Towson, $49,345, $15,264, and $71,462 respectively; 1.23 mi. Contr. CL-49, Carroll Co., from Thomas, Bennett & Hunter, Westminster, $35,307. Noted Mar. 26.

Md., Baltimore—Bd. Awards, City Hall, cement paving 15,930 sq.yd. Contr. 274-Na, from Aiello Constr. Co., Gough and 4th Sts., $41,336; sheet asphalt paving 9,900 sq.yd. Contr. 275-OCOA, from P. Flanigan & Son, Harford Rd. and Baltimore & Ohio R.R., $55,024. Noted Mar. 26.

O., Cincinnati — Comrs. Hamilton Co., Mar. 27, 200,000 gal. tar, grade 1 to Repair Dept., from Barrett Coal Tar Co., 517 Carr St., Cincinnati, $23,840. Engrs. est. $24,000. Noted Mar. 19.

O., Idlewood (Cleveland Heights P. O.)—Improving (1) Bushnell Rd. (2) Channing Rd. (3) Cranston Rd. (4) East Scarborough Rd. (5) East Meadowbrook Blvd. (6) Eaton Rd. (7) Edgarton Rd. (8) Fenwick Rd. No. 1 (9) Fenwick Rd. No. 2 (1 to 9 inclusive) involves 40,700 sq.yd. sheet asphalt, 24,150 lin.ft. stone curbing, 28,550 lin.ft. 4 in. drain tile gutter, 16,800 cu.yd. earth excav., (10) Lansdale Rd. (11) Meadbourne Rd. (12) Saybrook Rd. (13) Traymore Ave. (14) Tyndall Rd. (15) Vernon Rd. (16) Washington Blvd. (17) Westwood Rd. (10 to 17 inclusive) involves 36,600 sq.yd. sheet asphalt, 20,100 lin.ft. stone curbing, 21,400 lin.ft. 4 in. drain tile gutter, 15,700 cu.yd. earth excav., from Cleveland Trinidad Paving Co., The Arcade, Cleveland, (1) $39,907 (3) $19,384 (4) $19,006 (6) $43,733 (7) $21,013 (9) $19,920 (10) $16,425 (15) $9,015 (16) $54,348 (17) $11,834; from Bentley Bros., 3030 Euclid Ave., Cleveland, (2) $25,084 (5) $21,859 (12) $36,597; from Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, (8) $37,869 (11) $61,821 (13) $37,297 (14) $12,989.

Ill., Highland Park—Concrete surfacing 8,900 sq.yd. and 12 in. macadam surfacing 150 sq.yd. various streets, from Western Impvt. Co., 840 9th Ave., Racine, Wis., $43,082. Engrs. est. $53,000. Noted Sept. 25.

Ill., Knoxville—Streets & Alley Comn., vitr. brick on concrete and sand surfacing about 1 mi. Main St., from Central Eng. Co., 809 Putman Bldg., Davenport, Ia., $94,267. Noted Mar. 12.

Wis., Janesville — Commissioner Pub. Wks., Mar. 26, from Matthes Coal & Co. Co., Davenport, Ia., improving Pease Court, Terrace, Madison, Ravine, Galena, Hugh, Walker, Glen, North 1st, Caroline, Augusta, East, Wisconsin, South 2nd, South Third, Racine, Logan, Wheeler and Jackson streets, Prospect and St. Lawrence Aves., Garfield Ave. from Court St. to Oakland Ave. and Garfield Ave. from Wheeler to Carrington Sts., 30,700 cu.yd. excav. at $0.54 per cu. yd., 104,000 sq.yd. rein.-con. paving $[illegible], 17,300 ft. concrete curb and gutter $[illegible], etc. Noted Mar. 19.

Wis., Milwaukee—Dept. Pub. Wks. R. Stoelting, comr., concrete paving 1 alley each from Milwaukee Genl. Constr. Co., 427 Mitchell St., $6,317, from J. Bluhm & Son, 1298 Achilles Pl.; $3,582, from W. F. Hunt, 1036 1st St., $6,567, and from Parkinson Constr. Co., 322 27th St., $4,236; 2 alleys each from C. Slattery, 584 71st Ave., West Allis, $8,393, and from F. Blodgett, 521 Newton Ave., $17,897; 3 alleys, from Schwerm Bros., 50 Lee St., $14,931. Noted Mar. 26.

Ia., Indianola—E. M. Wilson, city clk., Mar. 23, 36,000 sq.yd. surfacing and 27,000 sq.yd. resurfacing various streets, from C. F. Lytle, 105 6th St., Sioux City, 6 in. rein.-con., gravel at $2.13 per sq.yd., 6 in. rein.-con., limestone $2.15, 7 in. rein.-con., gravel $2.19, 7 in. rein.-con., limestone $2.14; from G. Lambert, 1400 Prospect Ave., Des Moines, vibrolithic $2.36; from Nelson & Maine, Council Bluffs, brick $3.05 and $2.70, also 7 in. rein.-con. $2.19. Noted Mar. 12.

Tex., El Paso—E. B McClintock, judge El Jaso Co., Mar. 24, grading and surfacing with extensions to present concrete base and black base with 1 or 1½ in. topping 15.62 mi. State Highway 1, Federal Aid Project 439-E, from S. D. Mangum & Co., El Paso, $315,112. Engrs. est. $403,740 incl. 10% for engineering and contingencies. Noted Mar. 12.

Tex., Henrietta—J. P. Williams, judge Clay Co., Mar. 24, grading and bridging 7.14 mi. State Highway 5, Federal Aid Project 448-A, 28 ft., from J. P. Foty, Vernon, $73,279. Engrs. est. $83,465. Noted Mar. 5.

Tex., Houston—Harris Co., grading and bridging State Highway 35,820 cu.yd. concrete, 3,170 cu.yd. grading, 125,506 lb. reinforcing from Bates & McClendon, Houston, $36,171. Engrs. est. $40,000 incl. 10% for engineering and contingencies.

Tex., Post City—M. Mason, mayor, paving with 6 in. rein.-con., 2½ or 3 in. vertical fibre brick on 5 in. concrete 34,260 sq.yd. various streets, from Thurber Constr. Co., Ft. Worth, $120,542. Engrs. est. $100,000.

Tex., Sinton—San Patricio Co., grading and mudshell surfacing 6.38 mi. State Highway 57, Federal Aid Project 377-B, from M. E. Ruby, Blanco, $66,226. Engrs. est. $75,136. Noted Mar. 12.

Tex., Sweetwater — Nolan Co., grading and bridging, etc., 15.31 mi. State Highway 1, Federal Aid Project 444-D, 26 ft., from Hannah Constr. Co., Box 994, Waco, $43,728. Engrs. est. $108,640. Noted Mar. 5.

Calif., Fresno—Fresno Co. widening with concrete shoulders 5.9 mi. highway between point 2 mi. north of Fresno and Herndon, from Western Paving Co., Livingston, $37,505.

Calif., Los Angeles—Supervs. Los Angeles Co., Mar. 23, improving Hawthorne Ave., 13,783 cu.yd. excav., 25,172 sq.yd. shape roadbed, 24,032 sq.yd. 2 in. Willite surface, 25,172 sq.yd. 5 in. disintegrated granite sub-base, 20,150 ft. shape shoulders, etc., from G. H. Oswald, 366 East 58th St., approximately $55,100.

CONTRACTS AWARDED

Mass., Boston—Dept. Pub. Wks., repairing artificial stone block sidewalks in Dorchester, Roxbury, West Roxbury, and city proper as required during 1925, to J. J. McCarthy & Co., 121 Boston St., Dorchester, $0.295 per sq.ft.

R. I., Central Falls—Bd. Street, Water & Sewer Comrs., City Hall, granite block paving 7,000 sq.yd. Broad St., to Simpson Bros. Corp., 77 Summer St., Boston, $3.85 per sq.yd. Engrs. est. $25,000. Noted Mar. 19.

R. I., East Providence (Providence P. O.)—To J. McCormick, 315 Taunton Ave., Providence, curbing and bituminous macadam paving John St. $5,887, James St. $13,662, Purchase St. $9,110, 5th St. $4,278, Roger Williams Ave. $14,395. Noted Apr. 2.

N. Y., Buffalo—Paving repairs during year 1925, to Rock Asphalt & Constr. Co., Morgan Bldg., Buffalo, $350,000.

Streets and Roads (Continued)

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, sidewalks, etc., on Charlotte Pl., to C. Kurth, 9519 126th St., Richmond Hill, $4,335; Roosevelt Ave., to Welsh Bros. Contg. Co., 32 Queens St., Astoria, $19,165; 86th Ave., to P. J. Greenough Eng. Co., 9301 86th Rd., Woodhaven, $4,067; 101st St., to J. J. O'Brien Jr., William St., Jamaica, $6,315; Cornaga Ave., to H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, $1,573. Noted Apr. 2.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., to Asphalt Constr. Co., 208 Bway., sheet asphalt paving Walton Ave., $116,387; to Interboro Asphalt Co., 2306 Creston Ave., sheet asphalt paving Monterey Ave. $19,234; bituminous concrete paving East 207th St. $18,198; to C. D. Beckwith, 2875 Bway., sheet asphalt paving St. Lawrence Ave. $34,217; to Burnside Contg. Co., Burnside Ave., grading, curbing, etc., Gouverneur Ave. $9,331; to T. DiRoma, 33 Evelyn Pl., grading, etc., Wilson Ave. $17,820, to Gramaglia Bros., DeWitt Pl., $6,289. Noted Apr. 2.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and concrete paving Hylan Blvd., to J. Kelly, 1150 Forest Ave., West New Brighton, $210,399. Noted Mar. 26.

N. J., Pennington—Bd. Freeholders Mercer Co., Trenton, concrete paving 20,345 sq.yd. Main St., here, to Barrett Paving Co., Hoffman Ave., Trenton, $85,845.

N. J., Trenton—Bd. Freeholders Mercer Co., 57,220 gal. grade B or U.B. and 56,085 gal. grade X or U3, tars for surface treatment and penetration work on 29 mi. roads, to Barrett Paving Co., Hoffman Ave., $27,259. Noted Mar. 19.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. Application)** to F. D. Ross, Bradford, rein.-con. surfacing 48,900 sq.yd. R. 211, Sect. 1, McKean Co., $3.25, per sq.yd., total $270,216, to C. W. Blakeslee & Sons, 58 Waverly St., New Haven, Conn., 112,250 sq.yd. R. 335, Wayne Co., $3.41, $532,906, to W. H. Nicely Co., Ligonier, 9,970 sq.yd. R. 302, Westmoreland Co. $3.45, $47,658, to J. I. Dick, Scottdale, R. 181, A. 3003, Westmoreland Co., $3.25, $148,265, to Sherman & Rhodes, Bridgville, Del., 54,100 sq.yd. R. 164, Carbon Co., $3.10, $360,624, to D. L. Risser, Lebanon, 51,400 sq.yd. R. 285, Berks Co., $3. $218,576, to Standard Constr. Co., Altoona, 11,400 sq.yd. R. 228, A. 3173, Allegheny Co., $3.71, $60,781, to J. Weisner, St. Marys, 18,780 sq.yd. A. 2044, Clearfield Co., $2.87, $81,295, to Miller Constr. Co., Punxsutawney, 166,900 sq.yd. R. 107 Center Co., $3.40, $841,599, to Frazier & Mansfield, McKeesport, 33,100 sy.yd. R. 181, A. 3004, Westmoreland Co., $3.53, $166,358, to C. H. Fry Constr. Co., Erie, 28,000 sq.yd. R. 85, A. 3066 and 3067, Erie Co. $3.20, $115,982, to D. Schoentag, Saugerties, N. Y., R. 78,700 sq.yd. R. 14, Bradford Co. $3.50, $460,218, to Continental Contg. Co., Knickerbocker Bldg., Baltimore, Md., 8,300 sq.yd. R. 149, Berks Co. $3.60 and $3.80, $74,616; to S. J. Groves & Sons Co., Montreal and Cleveland Aves., Minneapolis, Minn., grading R. 275, Perry Co., 238,150 cu.yd. unclassified excav. $1.15, 20,300 cu.yd. borrow excav. $0.50, $379,363, to Snead & Burgess, Fork Union, Va., R. 7, Pike Co., 59,280 cu.yd. unclassified excav. $1.49, 6,623 cu.yd. borrow $1.49, $135,856. Noted Mar. 26.

Pa., Altoona—B. Keatley, comr. City Council, City Hall, for concrete paving 12,100 sq.yd. various streets, to E. L. Grannas, Altoona, $45,435; 16,900 sq.yd. various streets, to L. R. Mathieu & Sons, Altoona, $63,570. Noted Mar. 26.

Pa., Phila.—Bureau Hys., Dept. Pub. Wks., to Curtis Bros., State Rd., grading Aldine, Bleigh, Crispin, Leon and Tudor Sts. $35,439, to Morrissey Bros., 4345 North 7th St., B and Lowden Sts. $4,705, to McNicol Paving & Constr. Co., 1319 Cherry St. Ditman St. $8,781, to R. B. Wenner, 2313 Walnut St., Dover St. $1,052, to H. A. McClermox, 13th St., 65th and 66th Sts. $4,811; to Eastern Asphalt Co., Colonial Way, asphalt repaving Allegheny St. $64,662, York St. $25,986, to Union Paving Co., 30th and Locust Sts., Baltimore St. $52,969, Market St. $111,616, redressed granite block repaving Richmond St. $52,079, 60th St. (track area) $34,378; to Barber Asphalt Co., 30th and Race Sts., asphalt repaving Tasker and 23rd Sts. $22,140, Wood St. $3,711, improving intersection 9th St. and Roosevelt Blvd. $5,240, paving Bensalem Ave. Bridge over Pennypack Creek $24,235; to Municipal Paving Co., 702 Catharine St., redressed granite block repaving Christian St. $39,368, 2nd St. $42,774, to C. G. Centrone, Jefferson Bldg., Station St. $1,792, to Acchione & Canuso Paving Co., 804 South 12th St., 7th St. $12,143, to Mazzola & Marano, 739 South 7th St., 11th St. $89,140; to J. F. and P. O'Roarke, 925 South 47th St., curb and footway work (city to pay) $11,599; to City Paving Co., 732 Kater St.; paving and repaving certain alleys $2,595. Noted Apr. 2.

Md., Towson—Comrs. Baltimore Co., Courthouse, concrete paving 1.3 mi. Monkton Manor Rd., to P. Reddington & Son, 2 East Lexington St., Baltimore, $38,425. Noted Mar. 26.

W. Va., Buckhannon—Upshur Co., grading Kanawha Rd. to Webster Co. line, to Mace Constr. Co., Webster Springs, $99,882.

W. Va., Clarksburg—Bituminous macadam surfacing 3,600 ft. and concrete surfacing 3.75 mi. Laura Lee St. to Sardis Dist. line, to W. F. Allen & Co., Clarksburg, $53,000.

W. Va., Clarksburg—Harrison Co. grading 3.75 mi. Meadow Brook and Ten Mile Rds., to P. S. Hornor, Clarksburg, $27,835.

W. Va., Philippi—Barbour Co. paving 6.84 mi. roads in Union Dist., to Gillooly & Marshall, Buckhannon, $279,600.

Fla., Tampa—Hillsborough Co., to R. E. Garetson, Tampa, 4 in. vitr. brick on rock paving 7,868 sq.yd. portion of Silene and 3rd Aves., at Belast Pt., $35,473, to W. L. Harwell, 721 South Orleans Ave., 2½ in. asphalt block paving 3,351 sq.yd. of the above avenues, $13,098; to Union Paving Co., 30th and Locust Sts., Phila., Pa., grading, curbing and 2 in. filbertine on 5 in. lime rock surfacing portions of Grady and Barceleno Aves. $40,000, portions of Clark and Palmwa Aves. $40,000, portion of Lois Ave. $40,000, Hubert Ave. $40,000, Manhattan St. $91,350, portions of Granada Ave., etc. $41,000, portion of Empedrado and Santiago d. $41,000, portions of San Pedro and Obispo Rds. $48,000, portions of Tacon and San Louis Rds. $47,000, portions of Leona and Corona Rds. $47,000, portions of Sevilla and Vasconia $47,000, portions of Bay to Bay Blvd. $47,000, all foregoing in Maryland Monor subdivision.

Ala., Capitol Heights—Concrete surfacing 26,000 sq.yd. Capitol and St. Charles Aves., to Couch Constr. Co., Troy, $50,700.

Miss., Hattiesburg—Forest Co. Dist. 1, grading and Warrenite bitulithic surfacing 137,425 sq.yd. Paving Dist. 1, to Myers Constr. Co., Hattiesburg. Noted Mar. 12.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, **(F. A. P. means Federal Aid Project, S. A. P. means state Aid Project)**, grading, etc., 17.56 mi. Benton-Georgia State line Rd., S. A. P. 192, Polk Co., incl. 2 bridges over 20 ft. span, to Corum Bros., Madisonville, $69,516, 14.04 mi. Helenwood-Kentucky State line Rd., S. A. P. 191, Scott Co., incl. 3 concrete bridges over 20 ft. span, to Mason Constr. Co., Elizabethtown, Ky., $144,694, 14.75 mi. Milan-Weakley Co. line Rd., S. A. P. 193, Gibson Co., to Cresap Bros. Constr. Co., Humbolt, $83,481; grading and water-bound macadam surfacing road 10.02 mi. point near Rogersville to Pressmans Home, S. A. P. 176, Hawkins Co., incl. 2 timber bridges, to Freeman-Roberts Constr. Co., Knoxville, $144,689; concrete surfacing 5.23 mi. Knox Co. line-Lenor City Rd., F. A. P. 207, Loudon Co., to R. M. Calloway Constr. Co., Lenoir City, $133,240, 9.41 mi. Milan-Madison Co. line Rd., S. A. P. 167, Gibson Co., to Lawrence Constr. Co., Jackson, Miss., $227,644; rock asphalt surfacing 0.98 mi. Gallatin-Davidson Co. line Rd., S. A. P. 194, Sumner Co., to Federal Constr. Co., Nashville, $18,280. Noted Mar. 19.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, grading, gravel surfacing, etc., 7.5 mi. road from Sta. 399 to Savannah, 16 ft., State Aid Project 187-B, Hardin Co., to Pitts Bros. Constr. Co., Mt. Pleasant, $150,208. Noted Mar. 19.

O., Dayton—Montgomery Co. brick on concrete paving 15,000 sq.yd. Watervliet Ave. through Belmont, to J. I. Geiger, 28 Maple St., $78,414. Engrs. est. $100,000.

O., Idlewood (Cleveland Heights P. O.)—Concrete sidewalks on Jones St., to J. H. Martin, 2000 B. F. Keith Bldg., Cleveland, $1,982; 2 streets, to P. H. DeSantis, East 22nd St., Cleveland, $7,626; 7 streets, to F. B. Stein, Euclid, $18,922.

Indiana—C. Gray, engr. State Hy. Dept., Indianapolis, concrete paving 45,427 sq.yd. Anderson-Marion Rd., in Madison Co., to McMahon Constr. Co., Rochester, $87,101; 87,575 sq.yd. Pendleton Pike, in Madison Co., to McCoun Constr. Co., Noblesville, $171,829; 110,123 sq.yd. Connersville-Cambridge City Rd., in Fayette Co., to Eldorado Paving Co., Eldorado, $174,664; 70,438 sq.yd. Anderson-Muncie Rd., in Delaware Co., to Mannix Bros., Greenville, O., $122,240; 60,104 sq.yd. Anderson-Muncie Rd., in Madison and Delaware Counties, to Hinton & Smalley, Celina, O., $108,613; 101,793 sq.yd. Elkhart-Middlebury Rd., in Elkhart Co., to C. E. Holderbaum Co., Columbia City, $204,704; 96,094 sq.yd. Louisville Rd., in Jackson Co., to Jenkins & McKensie, Franklin, $182,323; 12.002 mi. Federal Aid Rd. 83, Sects. A and B, in Madison and Grant Counties, to H. A. Carpenter Co., Evansville, $216,482; 11.976 mi. Federal Aid Rd. 46, Sects. A and B, Hancock and Madison Counties, to Wabash Constr. Co., Vincennes, $234,708. Noted Mar. 12.

Ind., Indianapolis—G. Schmidt, engr. Marion Co., **(e. e. means engrs. est.)**, to Emulsified Asphalt Co., Hume-Mansur Bldg., asphaltic concrete paving 15,206 sq. yd. Kassebaum Rd., $55,573, e. e. $56,800, 2.69 mi. Fitch Rd. $109,386, e. e. $116,327, asphaltic macadam paving 22,704 sq.yd. Esmon Rd. $75,170, e. e. $77,000; to A. D. Bowen, 2242 Bway., concrete paving 25,555 sq.yd. McGregor Rd., $78,316, e. e. $82,437. Noted Mar. 19.

Ia., Iowa City—Concrete surfacing 12,200 sq.yd. various streets, to P. P. Smith Co., 1600 Washington Ave., Cedar Rapids, about $30,000.

Ia., Ottumwa—M. L. Holman, city clk., 3 in. brick on concrete paving 14,672 sq.yd. Vogel, Davis and Weller Sts., to J. C. Blunk, Ottumwa, $47,433. Noted Mar. 19.

Michigan—State Hy. Dept. at office Comrs. Bay Co., Bay City, grading and concrete surfacing 1.982 mi. road, to Dovey Paving Co. Batavia, $27,912. Noted Mar. 5.

Michigan—State Hy. Dept. at office Comrs. Kent Co., Grand Rapids, grading and gravel surfacing 2.602 mi. Bostwick-Lake-Canonsburg Rd., to J. L. Albert, Swanson, $29,452. Noted Mar. 19.

Michigan—State Hy. Dept., Lansing, grading and gravel surfacing 4.5 mi. road, Washtenaw Co., to Koch Building & Supply Co., Ann Arbor, $27,569.

Wis., Columbus—W. H. Pietzner, city clk., one course concrete paving, etc., 13,088 sq.yd., various streets, to O'Dea & Shafer, c/o Genl. Del., Madison, $45,472. Noted Apr. 2.

Wis., Elkhorn—H. J. Peters, highway comr., Walworth Co., grading, curbing, guttering and paving 4 mi. Lake-Geneva-Williams Bay Rd., 36,660 sq.yd. 18 in. and 9,500 sq.yd. 27 in. concrete, to R. Birdsall Constr. Co., 1025 12th St., Racine, $94,512. Noted Apr. 2.

Wis., Kenosha—J. F. Herzog, highway comr., Kenosha Co., concrete surfacing, etc. Silver Lake-Twin Lakes Rd., to J. R. Griffith Co., 1500 9th St., Racine, $134,978. Noted Mar. 19.

Wis., Manitowoc—A. H. Zander, city clk., rein.-con. paving 41,984 sq.yd. New York Ave., South 14th and Marshall Sts., to Zendala Constr. Co., 1020 South 25th St., Manitowoc, $105,551. Noted Mar. 26.

Wis., Prairie du Chien—W. Beuthin, city clk., for rein.-con. paving, etc., 35,334 sq.yd. various streets, to Welsh Paving Corp., 703 1st Iat. Soo Line Bldg., Minneapolis, Minn., at $2.04 per sq.yd. Noted Mar. 5.

Minn., St. Paul—H. W. Austin, city purch. agt., to Thornton Bros., 318 Endicott Bldg., sheet asphalt paving Carroll Ave. $25,000, Cromwell and Bayless Aves. $24,478, Montrose Pl. $14,732; to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., brick and sheet asphalt paving Beech St., $23,988. Noted Apr. 2.

South Dakota—State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project)**, to Johnig & Davis, Britton, grading 13.85 mi. F. A. P. 171 C, Marshall Co., 2,714 yd. loose rock and 87,660 yd. common excav., etc., $40,376, to Dowd Bros. & Schreiber Eng. Co., Watertown, 12.3 mi. F. A. P. 134 B, Beadle Co., 350 yd. loose rock and 95,132 yd. common excav., etc., $27,212, 14.03 mi. F. A. P. 191 C, Clark Co., 140 yd. loose rock and 121,043 yd. common excav., etc., $39,073, to R. P. England, Murdo, 11.99 mi. F. A. P. 188 B, Hutchinson-Turner Co., 650 yd. loose rock and 78,261 yd. common excav., etc., $22,178, 10.51 mi. F. A. P. 189 A, Charles Mix-Beadle Co., 610 yd. solid, 979 yd. loose rock and 78,827 yd. common excav., etc., $28,536, 12.67 mi. F. A. P. 185 B, Jackson Co., 111,692 yd. common excav., etc., $34,966, to Auditor Day Co., Webster, 12.96 mi. F. A. P. 191 A, Day Co., 449 yd. loose rock and 82,069 yd. common excav., etc., $23,769, to H. J. Hawley, Trail City, 12.48 mi. F. A. P. 171 B, Brown Co.,

Streets and Roads (Continued)

105 yd. solid rock, 600 yd. loose rock and 91,602 yd. common excav., etc., $28,561, 11.03 mi. F. A. P. 171 D, Brown Co., 335 yd. loose rock and 81,809 yd. common excav., etc., $24,781, to Geddes & Miller, Ellendale, 14.11 mi. F. A. P. 178 C, Yankton Co., 800 yd. loose rock and 107,019 yd. common excav., etc., $32,364; to Lindekugel & Barthelow, Spencer, four 23 ft. viaducts on F. A. P. 189 A, Charles-Mix-Bruel Co., 23,342 lb. reinforcing, etc., $7,648, to Aberdeen Constr. Co., Aberdeen, one 45 ft. viaduct on F. A. P. 171 C, Marshall Co., 135 lb. reinforcing, etc., $4,125, to Diamond Eng. Co., Grand Island, Neb., one 48 ft. viaduct, on F. A. P. 185 B, Jackson Co., 9,960 lb. reinforcing, etc., $5,268. Noted Mar. 12 and 19.

S. D., Sioux Falls—Rein.-con. paving 29,199 sq.yd. various streets, to Western Asphalt Paving Corp., 1st and Nebraska Sts., Sioux City, $1.82 per sq.yd. Noted Mar. 12.

Wyoming — State Hy. Comn., Cheyenne, grading, surfacing, etc., 13 mi. Cheyenne-Wheatland Rd., Federal Aid Project 175-B, Laramie Co., to Bagley Bros., Wheatland, $91,361, 9.8 mi. Lander-Rawlins Rd., Federal Aid Project 162-B, Freemont Co., to Maney Bros. Co., Empire Bldg., Oklahoma City, Okla., $78,343; crushed rock surfacing, etc., 32.8 mi. Rawlins-Casper Rd., Federal Aid Project 64-A, Carbon Co., to Allied Constr. Co., 1803 Douglas St., Omaha, Neb., $145,655; improving 4.8 mi. Sage-Randolph Rd., Federal Aid Project 576, Lincoln Co., grading, etc., to A. F. Bundy, Cheyenne, $2,375, and 3 timber bridges, to D. Cavanaugh, Twin City, Idaho, $2,145. Noted Mar. 19.

Wyoming—State Hy. Comn., Cheyenne, grading, etc., 4.9 mi. Sheridan-Buffalo Rd., Federal Aid Project 143-B, 24 ft., Johnson Co., to Threet Bros., Lovell, $26,262. Engrs. est. $36,000.

Mo., Clayton—E. Davis Realty & Mortgage Co., 1101 Locust St., St. Louis, grading with elevator grader, etc., 114 acre subdivision, here, and North and South Rds., in St. Louis Co., approximately 200,000 cu. yd. excav., to L. Gray, 1223 Woldron St., University City.

Mo., Clinton—For 7 in. vibrated concrete paving 3,770 yd., various streets, to Reed & Wheelock, Clay Center, $70,957.

Mo., St. Louis—A. R. Schoolmeyer Realty Co., 104 North 7th St., complete grading Southwest Park Subdivision at Southwest Ave. and Watson Rd., 210,000 cu.yd. excav., to Nolan Contg. Co., c/o Southwest Park Subdivision, Southwest Ave. and Watson Rd.

Mo., Salisbury—Concrete paving, curbing and guttering 8,675 sq.yd. various streets, to Reed & Wheelock, Clay Center, $27,706. Noted Mar. 19.

Ark., North Little Rock (Ind. br. Little Rock)—Grading and concrete surfacing Beech St. to city limits, to H. Brown, 419 West 4th St. Engrs. est. $25,000.

Ark., Pine Bluff—Improving Paving Dist. 72, 5,912 sq.yd. vibrolithic surfacing, 1,480 ft. curb and gutter and 820 ft. 12 in. storm sewers in Annex 1, 3,662 ft. curb and gutter, 408 ft. 12 and 27 in. storm sewers and vibrolithic surfacing in Annex 2, to D. C. Horton, Ft. Smith, $6,942 and $17,857 respectively. Noted Mar. 12.

Tex., Cleburne — For 2 in. asphalt concrete on concrete paving 43,000 sq.yd. various streets, to West Texas Constr. Co., Cotton Exch., Ft. Worth, $2.84 per sq.yd.

Tex., Dallas — A. L. Krammer, c/o A. Harris & Co., Kirby Bldg., grading and graveling streets in new 80 acre residential district, to I. Gano, 3309 Hall St., cost plus percentage basis. Engrs. est. $32,000.

Tex., Eagle Pass—Maverick Co., grading 10 mi. highway between Eagle Pass and Dimmit Co. line, 18 ft., to H. Kyle, Hutto, $39,000; bridges and concrete work on above, to Bart Moore Constr. Co., Waco, $42,500. Noted Mar. 26.

Tex., Ft. Worth—Paving Wilshire Blvd. from Warner Rd. to Forest Park Blvd., to West Texas Constr. Co., Cotton Exch. Bldg. Engrs. est. $26,000.

Tex., Henrietta—Clay Co., grading, etc. 7.4 mi. Henrietta-Petrolia Rd., 26 ft., to J. M. Purvis, 112½ West 9th St., Ft. Worth, $37,875, engrs. est. $38,500; 306 ft. rein.-con. girder bridge across Big Wichita River, to J. F. Buckner & Son, Gonzales, $24,503 engrs. est. $30,000. Noted Feb. 19.

Tex., Houston—Harris Co., grading, concrete paving and bridging 6.53 mi. State Highway 6, Federal Aid Project 466 A and D, 20 and 30 ft., to Texas Willite Road Constr. Co., 102 Standard Bldg., $177,994. Engrs. est. $175,021. Noted Mar. 12.

Okla., Ponca City—Concrete paving, etc., 10,200 sq.yd. Main St. in Dist. 1, to R. H. Baldwin, Ponca City.

Okla., Tulsa — To Standard Paving Co., 1742 East 6th St., improving streets in Owen addition, Alley Block 19, Dist. 619 $1,566, Quanah Ave., Dist. 620 $15,899, 25th St., Dist. 622 $14,036, to H. L. Cannady Co., 1122 South Lewis St., Rockford Ave., Dist. 621 $24,075, to Tibbetts & Pleasant, Inc., 209 North Nogales St., Zion St., Dist. 624 $31,550, to D. A. Burton, 544 South Victor St., Campbell addition, alley in Block 2, Dist. 594-A $698; to C. M. Brown, 1315 South Trenton St., sanitary sewers in Dist. 218 $3,254, to Comstock-Smedley Co., Iowa Bldg., sanitary sewers in Dist. 216 $13,550.

Wash., Seattle—To Moceri Bros., Seattle, improving North and West 78th St., et al, 530 ft. integral curb $0.50 per ft. 7,750 ft. concrete integral curb $0.28, 3,100 cu.yd. earth excav. $0.50, 12,550 sq.yd. 6 in. concrete $1.55, total $31,738. Engrs. est. $36,257.

California—State Hy. Comn., Sacramento, widening with concrete shoulders 2.7 mi. and concrete paving 8.9 mi. various roads in San Jaquin Co., to J. F. Knapp, Turlock, $257,443. Noted Feb. 26.

Calif., Huntington Park—To Los Angeles Paving Co., 2900 Santa Fe Ave., Los Angeles, improving Irvington Ave., 117,532 sq.ft. 5 in. asphaltic concrete paving at $0.173 per sq.ft., 10,349 sq.ft. 6 in. concrete gutter $0.25, 3,804 sq.ft. 8 in. concrete gutter $0.27, 1231 sq.ft. concrete sidewalks $0.20, 544 lin.ft. curbing, $0.70, total approximately $25,000. Noted Mar. 5.

Calif., Manhattan Beach—City, 6 and 10 in. curbing sidewalks, etc., on The Strand between 27th St. and city limits, to H. H. Peterson, Spreckles Bldg., San Diego, $25,585.

Calif., Pasadena—Curbing, guttering, paving, etc. Lake St. between north city limits and Washington Sq., to C. F. Mathews, Braley Bldg., $25,110; and curbing, guttering, macadam paving, etc. Walnut St. between Lake and Allen Aves., to Ducey & Breitenstein, R.F.D. Box 3, approximately $105,100. Noted Mar. 26.

Calif., Sacramento—Supervs. Sacramento Co., 3,000 cu.yd. concrete paving road along Sacramento River from Grand Island Bridge to Vorden, to C. W. Wood, Manteca, approximately $37,200. Noted Mar. 12.

Calif., Salinas — City Council improving Church St. and Central Ave., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, 303,566 sq.ft. grading at $0.005 per sq.ft., 904 tons base rock $1.50, 301,109 ft. 2 in. Warrenite bitulithic surface $0.135, 9,520 ft. concrete curb $0.68, 12,749 sq.ft. concrete gutter $0.29. Noted Mar. 26.

Calif., Woodland—Yolo Co., grading and Willite asphaltic concrete paving approximately 4 mi. Prefix 2, Sect. A, Highway System, to A. Teichert & Sons, 1846 37th St., Sacramento, $79,617; grading and concrete paving 2 mi. Prefix 5, Sect. B, Highway System, to C. W. Wood, Manteca, $43,835.

Calif., Tulare—Improving M St., etc., to Valley Paving & Constr. Co., Visalia, $73,190. Noted Apr. 2.

B. C., Ladner—For 5 in. asphaltic macadam paving 1½ mi. Scott Rd., to General Contr. Co. Ltd., 736 Granville St., Vancouver, $18,750; and bituminous penetration surfacing 1½ mi. Boundry Bay Rd., to Cotton Co. Ltd., False Creek Yards, Vancouver, $15,000.

Buildings—Industrial

PROPOSED WORK

Mass., Beverly — Repair and Service Garage—H. H. Whitman, c/o C. G. Loring, archt., 7 Water St., Boston, having preliminary plans prepared 1½ story and basement, rein.-con., tile and stucco, plain foundation, here. $40,000.

Mass., Lee — Plant — White Marble & Terazzo Co. plans rebuilding plant incl. machine shop, recently destroyed by fire. $75,000. Engineer and architect not selected.

Mass., Medford — Repair and Service Garage — Boston Elevated Railway Co., Park Sq. Bldg., Boston, plans 1 story, 20,000 ft. floor space, Salem St. $114,000. Private plans.

Conn., Milldale (Hartford P. O.)—Factory—Clark Bros. Nut & Bolt Co., plans 2nd story brick and steel addition with 25 ton capacity elevator. $40,000. W. T. Arnold, Meriden, archt.

N. Y., Buffalo—Mill—Acme Builders Supply Co., 2675 Main St., purchased 100 x 263 ft. site and plans to extend mills, Breckenridge Ave. $75,000.

N. Y., Buffalo—Shops—Donner Steel Co., Abbott Rd., plans 2 rein.-con., brick and steel mill shops, Abbott Rd. $70,000.

Pa., Coral—Coal Washery—Potter Coal & Coke Co., Coulter Bldg., Greensburg, having plans prepared by Schnicke & Brocker, Greensburg, small addition and coal conveying machinery, here. $50,000.

Pa., Phila.—Factory—Atlas Electric Co., 1218 Hamilton St., having plans prepared by Heacock & Hokanson, 1211 Chestnut St., 2 story and basement, 56 x 72 ft., brick and steel, plain foundation, 916 Green St.

Pa., Pittsburgh—Plants—Pittsburgh Piping & Equipment Co., 35th and Charlotte Sts., making plans three 1 story, 120 x 300 ft., 80 x 150 ft. and 50 x 220 ft. buildings, concrete and steel. Private plans.

Pa., Zelionople—Factory—Atlas Sanitary Mfg. Co. plans foundry, cleaning house, enamel shop and shipping house buildings. $100,000. Private plans.

Md., Baltimore—Plant—L. H. Retterberg, Inc., 2823 Pennsylvania Ave., having plans prepared by Stadler, Levin & Cravin, 29 Bway., New York City, 2 story, 150 x 300 ft., brick, plain foundation, 6th St. south of Wilkens Ave. $150,000.

Tenn., Athens — Mill — Englewood Mfg. Co. plans rebuilding hosiery mill, recently destroyed by fire. $50,000.

O., Canton—Factory—Union Metal Mfg. Co., 1432 Maple Ave. N. E., plans 1 story factory addition. $40,000. C. C. Barrick, pres. and genl. mgr.

O., Canton—Plant—Thoma & Maxwell 12th St. N. E., plans 2 story, 74 x 90 ft. ice plant addition, incl. storage, warehouse and garage. $40,000.

O., Cleveland—Factory and Storage—Green, Hass & Schwartz, E. Hass, pres., 1967 East 57th St., had plans prepared by Christian, Schwarzenberg & Gaeda, 1900 Euclid Bldg., altering factory and constructing 2 story and basement, 50 x 50 ft., brick and steel storage building, Berea Rd. $50,000.

O., Cleveland—Factory—Friedman, Blau, Farber Co., H. Friedman, Pres., East 37th St., and Perkins Ave., having preliminary plans prepared by Lehman & Schmitt, Hunkin-Conkey Bldg., 1 story, 60 x 135 ft., brick and steel, top addition, East 37th St. and Perkins Ave. $40,000.

O., Niles—Pottery—Atlas China Co., plans rebuilding 1 story pottery, partially destroyed by fire. $200,000. A. O. C. Ahrendths, pres.

Ind., New Castle—Factory—Natl. Spring Co., plans 1 story, 180 x 240 ft., rein.-con. and steel factory. $65,000.

Mich., Detroit — Factory — Stromberg Carburetor Co., 6645 Gratiot Ave., having plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., 2 story and part basement, 50 x 160 ft., brick and steel, plain foundation, Hancock Ave. $50,000.

Mich., Detroit — Heating Plant — Pub. Library Comn., Woodward Ave., having plans prepared, 2 story, rein.-con., brick and steel, plain foundation, Farnsworth Ave. $200,000. J. S. Stringham, Clinton and Beaubien Sts., city research engr.

Ill., Chicago—Laundry—Amer. Supply Co., 140 West Austin St., having plans prepared by Neiler Rich Co., archts. and engrs., 431 South Dearborn St., 4 story and basement, 100 x 219 ft., rein.-con., brick and stone, plain foundation, Franklin and Locust Sts. $300,000.

Ill., Chicago—Factory—M. Schukraft, 943 Fulton St., having plans prepared by E. H. Froman, 64 West Randolph St., 3 story and basement, 140 x 220 ft., rein.-con. and brick, plain foundation, West Washington St. $300,000.

Ill., Murphysboro—Factory—Brown Shoe Co., 1610 Washington St., St. Louis, Mo., plans rebuilding 3 story, concrete and brick

Buildings—Industrial (Continued)

factorly, here, recently destroyed by tornado.

Wis., Beloit—Factory—Crowley Wholesale Grocery Co., Shirland Ave., plans 1 story, brick and tile, Shirland Ave. $40,000. Engineer and architect not selected. $40,000. Swingley Bros., 301 Pleasant St., lessee.

Ark., Texarkana — Shops — Graysonia, Nashville & Ashdown R.R. Co., C. M. Conway, pres., plans rebuilding shops, recently destroyed by fire, $150,000. C. S. Christian, Nashville, ch. engr.

Tex., Cuero—Plant—Election soon $150,000 bonds, electric light and power plant, brick and rein.-con., incl. complete machinery. Engineer and architect not selected. Address mayor.

Tex., Dallas—Plant—Dallas Power & Light Co., c/o C. W. Davis, mgr., Interurban Bldg., having plans prepared 1 story, 120 x 260 ft., rein.-con., brick and steel addition, plain foundation, etc. $1,500,000. Private plans.

Tex., Lubbock—Compress—West Texas Warehouse & Compress Co. soon takes bids 1,500 bale brick and concrete compress. $125,000. C. M. Rawlins, genl. mgr. Private plans.

Calif., Berkeley — Plant — University of California having plans prepared by W. H. Ratcliff, Jr., Mercantile Trust Bldg., 2 story, rein.-con and brick publishing plant addition, Center and Oxford Aves. $40,000. Lederer, Street & Zeuse, 2161 Center St., lessee.

Calif., Crescent City—Maintenance Shop, etc.—State Hy. Comn., Sacramento, having plans prepared garage and maintenance equipment shop, here. To exceed $40,000. R. M. Morton, Sacramento, engr.

Calif., Los Angeles—Plant—Los Angeles Creamery Co., 1120 Towne Ave., having plans prepared by Gay Eng. Co., 2650 Santa Fe Ave., 4 story, 80 x 120 ft., rein.-con. cold storage plant, Towne Ave.

Calif., Manteca—Power Plant—See "Excavation, Drainage, Irrigation, Levees."

Calif. Oakland — Substation — Pacific Gas & Electric Co., 455 Sutter St., San Francisco, having plans prepared steel and concrete, Linda Ave., here. $250,000. Private plans.

Calif., Pomona—Mill—Swing & Walker, Citizens Natl. Bank Bldg., Los Angeles, having plans prepared by C. F. Whittlesey, 6533 Hollywood Blvd., Los Angeles, 1 story, 75 x 300 ft. silk mill, brick. $60,000.

Calif., Sacramento—Warehouse and Distributing Plant, etc.—G. H. Tay Co., 165 8th St., San Francisco, having plans prepared by R. A. Herold, Forum Bldg., 2 story, brick or concrete, R St. $100,000.

Calif., San Francisco—Assembly and Repair Shop—Amer. La France Fire Engine Co., 151 New Montgomery St., plans brick or concrete 16th and Shotwell Sts. $40,000 or more.

Calif., San Leandro—Substation—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, having plans prepared rein.-con. substation. $200,000. Private plans.

Calif., Watsonville — Bakery and Creamery—Pajaro Valley Baker & Watsonville Creamery Co., purchased site and making plans 40 x 140 ft. bakery,, and 30 x 100 ft. creamery, Main and Lake Sts.

Ont., Holland Centre—Plant—R. F. Harber plans rebuilding plant recently destroyed by fire. $40,000.

Ont., Kitchener—Factory—Goodrich Rubber Co. having plans prepared factory extension. $100,000. Private plans.

Ont., Mitchell — Factory — Wettlaufer Bros. Ltd., Mitchell, making plans 100 x 462 ft. factory, and 70 x 140 ft. foundry, cement and steel. $100,000.

Ont., Toronto—Plant—Hydro Electric Power Comn. of Ontario, 190 University Ave., plans coking plant and central heating system in connection with power plant, here. F. A. Gaby, ch. engr.

Ont., Walkerville—Factory—Berry Bros., F. Colby, mgr., plans rebuilding factory, recently destroyed by fire. $100,000.

B. C., New Westminster—Factory—K. and L. Box & Lumber Co., Niles, Calif., having plans prepared factory, on north arm of Fraser River, here. $100,000. Private plans.

BIDS DESIRED

Mass., Everett—Plant—Mystic Iron Wks., 1 Federal St., Boston, taking bids for blast furnace plant, here. Fine & Bassett, Chicago, Ill., archts.

Mass., New Bedford—Plant—New Bedford Boiler & Machine Co., 42 Frost St., taking bids 4 story, 60 x 165 ft., rein.-con. and brick, Warehouse, plant addition, plain foundation. Leary & Walker, 908 Purchase St., archts.

Mass., Somerville (Boston P. O.) — Repair and Service Garage—M. Cota, 14 Mansfield St., taking bids 1 story and basement, 60 x 100 ft., rein.-con. and brick, Main St. and Commonwealth Ave. $40,000. J. A. Quirk, 10 Tremont St., Boston, archt.

Pa., Ridgeway — Plant — Hyde Murphy Co. will build 4 story and basement, 70 x 170 ft. plant addition. Work will be done by separate contracts. $100,000. Private plans.

Md., Canton (Baltimore P. O.)—Plant—Apr. 15, by Lockwood, Greene & Co., engrs., 100 East 42nd St., New York City, 2 and 3 story plant, 5th Ave., here, for Gold Dust Corp., 239 West 30th St., New York City. $1,000,000. Noted Jan. 29.

O., Cleveland — Plant — Brooks Co., J. Caldwell, pres., 715 Superior Ave., taking bids 3 story and basement, 108 x 132 ft., brick and rein.-con., 1240 Oregon Ave. $300,000. W. S. Lougee, 500 Marshall Bldg., archts. Noted Jan. 8.

Wis., Iron River—Cannery, etc.—Apr. 15, by Iron River Packing Co., D. J. Fitzgerald, mgr., 722 Werle Ave., Wausau, 2 story, 42 x 80 ft. cannery, 1 story, 42 x 70 ft. warehouse, and 1 story, 30 x 40 ft. boiler house, timber and brick, plain foundations. $60,000. Private plans. Noted Jan. 15.

Calif., Emeryville—Machine Shop, etc.—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, taking bids 2 story foundry-laboratory, also junk metal shop, machine and electric shop and pattern shop, 1 story each, all concrete. Private plans.

CONTRACTS AWARDED

Mass., Clinton—Plant—W. W. Russell, 77 Franklin St., Boston, will build 2 story gas plant, brick and steel, by day labor. $40,000. E. L. Rawson, 6 Beacon St., Boston, archt.

Mass., Roxbury (Boston P. O.)—Repair and Service Garage H. Rittenberg, 12 Garden St., Boston, 1 story, rein.-con., Dudley St., here, to R. Gauvreau, 43 Tremont St., Boston. Archts. est. $50,000.

Conn., Bridgeport — Factory — Locke Steel Chain Co., 1085 Connecticut Ave., 1 story, 85 x 155 ft., rein.-con. and steel, plain foundation, Connecticut Ave., to Eastern Eng. & Constr. Co., Liberty Bldg. Archts. est. $75,000. Noted Feb. 12.

Conn., Newington—Factory—Connecticut Fat & Fertilizer Co., 1 story, 40 x 75 ft., brick, steel and concrete, plain foundation, to Lawrence & Coe Constr. Co., 372 Trumbull St., Hartford.

Conn., Stamford — Plant — Conde Nast, printing plant addition, to Turner Constr. Co., 242 Madison Ave., New York City. Archts. est. $50,000.

N. J., Trenton—Shop—J. E. Thropp & Sons, Inc., Lewis St., 1 story, 82 x 162 ft., brick and steel machine shop, Fair St., to H. E. Baton, 1713 Sansom St., Phila., Pa., $135,000. Noted Mar. 19.

Pa., Phila.—Service Station, etc.—W. H. Gravell & A. W. Hall, archts., Otis Bldg., soon let contract 1 story and basement, 100 x 120 ft., brick and steel service station and store building, plain foundation, for Willard Storage Batteries Co., 3613-21 Walnut St.

O., Cincinnati — Machine Shop — G. A. Gray Metal Planer Co., Gest and Depot Sts., 1 story, 110 x 420 ft. rein.-con. brick and steel, plain foundation, Montgomery Rd., to Austin Co., 16,112 Euclid Ave., Cleveland, $500,000.

O., Cleveland—Factory—Kline Spring Co., c/o A. B. Kline, pres., Babbitt Rd., and New York Central R.R. tracks, 1 story, 50 x 100 ft., brick and steel, 19100 Firewood Ave., to Charles Peterson Co., 4500 Euclid Ave. Archts. est. $40,000.

O., Cleveland—Factory and Office—Bryant Heater & Mfg. Co., O. Fox, vice pres., 952 East 72nd St., 1 and 2 story, 150 x 300 ft. factory, and 35 x 90 ft. office building, brick and steel, East 179th St. and St. Clair Ave., to deHamel Constr. Co., Plymouth Bldg. Archts. est. $125,000. Noted Jan. 22.

O., Cleveland—Factory and Pattern Shop—G. Rackle & Sons Co., c/o G. Rackle, pres., Stop 5, A. B. C., 2 story, 75 x 260 ft., steel and cement tile, Stop 5, A. B. C. Line, to Truscon Steel Co., 1030 Albert St., Youngstown. Archts. est. $100,000.

Ill., Joliet—Mill—Standard Wall Paper Co., Hudson Falls, N. Y., 1 and 2 story, 50,000 sq.ft. additional floor space, rein.-con. and brick, East Washington St., here, to Austin Co., 160 North LaSalle St., Chicago. Archts. est. $200,000.

Ill., Murphysboro—Shops—Mobile & Ohio R.R. Co., Fullerton Bldg., St. Louis, Mo., will rebuild rein.-con. and brick machine shop, repair shops, round house, etc., here, recently destroyed by tornado, by day labor. H. A. Wood, ch. engr.

Ill., Peoria — Factory — Peoria Stone & Marble Wks., 1800 North Adams St., 1 story and basement, 140 x 170 ft., rein.-con. and steel, to F. Harbers & Sons, 1007 Central Natl. Bank Bldg., $46,000.

Wis., Janesville—Manufacturing—Chamber of Commerce, 114 East Milwaukee Ave., 1 story, 158 x 200 ft., brick and steel manufacturing plant, plain foundation, to J. P. Cullen & Son, 109 South Main St. Archts. est. $60,000. Northern Conveyor & Mfg. Co., 3204 Auer Ave., Milwaukee, lessee. Noted Mar. 19.

Wis., Milwaukee—Cooler and Market—Plankinton Packing Co., Muskego Ave. and Canal St., 4 story, 108 x 150 ft., brick and concrete, plain and wood pile foundation, Muskego Ave., to Dahlman Constr. Co., 456 Bway. Archts. est. $350,000. Noted Mar. 12.

Wis., Milwaukee—Factory—Smith Eng. Wks., 1154 32nd St., 1 story, 200 x 245 ft., brick and steel, plain foundation, Lake St., to Worden-Allen Co., Port Washington Ave. Archts. est. $150,000. Noted May 22.

Minn., Bloomington (Minneapolis, P. O.)—Power House and Laundry—Minnesota Masonic Home Corp., c/o A. F. Pray, chn. building com., 300 Oneida Bldg., Minneapolis, general contract 1 story and basement, 100 x 100 ft., brick power house and laundry, to G. Schwartz & Co., Rochester, about $75,000 complete. Noted Feb. 26 under "Buildings-Commercial."

Minn., Winsted—Factory—Gopher State Canneries, W. H. Taylor, mgr., general contract 2 story, 110 x 126 ft., concrete factory, to Swenson & Hakanson Co., 914 Builders Exch., St. Paul; power plant equipment, to Commonwealth Electric Co., 417 Bway., St. Paul. Archts. total est. $80,000.

Mo., St. Louis — Bakery — Melsheimer Bakery Co., 277 DeBaliviere Ave., one story and basement, 76 x 88 ft., rein.-con. and brick, Delmar Blvd., to E. H. Struckhoff, 3153 Keokuk St.

Mo., St. Louis — Packing Plant, etc. — Amer. Packing Co., 3842 Garfield Ave., will build 1 story 80 x 115 ft., rein.-con. and brick, 3845 Garfield Ave., by day labor. Koerner Eng. Co., Syndicate Trust Bldg., engrs.

Mo., St. Louis—Plant—Battendorf Packing Co., 1730 South 9th St., general contract 2 story and basement, 120 x 140 ft. rein.-con. and brick packing plant, to Kenton-Hercules Co., Wainwright Bldg. Archts. est. $200,000.

Mo., St. Louis—Plant—Hall & Brown Woodworking Mchy. Co., Bway. and Tyler Sts., 2 story and basement, 31 x 80 ft., concrete and brick, 1933 North Bway., to W. H. Schulte, 2603 Cass Ave.

Calif., Berkeley—Factory—Pacific Electric Clock Co., 86 3rd St., San Francisco, factory, Parker St., to Austin Co. of California, 244 Kearny St., San Francisco, $42,000.

Calif., Fresno—Power Plant—San Joaquin Light & Power Co., will build Balch power plant on north fork of Kings River about 55 mi. east of here, developing 37,500 hp. operating under head or 2,740 ft., also 19,600 ft. tunnel bored through solid granite, and 39 mi. transmission line, by day labor. Portions of above will probably be let by contract. To exceed $4,500,000. Private plans.

Calif., Oakland—Sub-Station—Key Route Transit Co., 40th St. and Shafter Ave., 1 story, concrete sub-station, Key Route Pier, to Reed & Corlett, Oakland Bank Bldg., $40,000.

Calif., Sacramento—Plant—Ward Seed Co., 1213 Front St., 2 story, 100 x 160 ft., concrete, 16th and North B Sts., to Mathews Constr. Co., 34th and X Sts., $65,000.

Calif., San Francisco—Substation—Pacific Gas & Electric Co., 445 Sutter St., will build 1 story, rein.-con., Ocean Ave., by day labor. $50,000. Private plans.

Buildings—Commercial

PROPOSED WORK

Me., Bangor—Home—Eastern Maine General Hospital, having plans prepared by Coolidge & Carlson, 89 State St., Boston, Mass., 4 story and basement, 50 x 150 ft. nurses home, rein.-con., brick and stone, State St. $225,000.

Me., Rumford — Hospital — Community Hospital Assn., rejected bids 2 story and basement, 35 x 156 ft., brick and stone hospital. $150,000. Four lowest bidders of previous opening of bids will refigure. Rogers & Dion, 142 Berkley St., Boston, archts. Noted Mar. 5.

Mass., Boston—Fire Station—Fire Dept., 61 Bristol St., having plans prepared by J. T. Ball, 61 Bristol St., 3 story and basement, 40 x 85 x 90 ft., brick and stone, Shawmut Ave. and Tremont St. $300,000. Noted Oct. 30.

Mass., Brookline (Boston P. O.)—Apartment—A. W. Blake, c/o Richardson, Barrett & Richardson, archts., 8 Beacon St., Boston, having preliminary plans prepared 4 story and basement, brick and stone, Cypress St. $150,000.

Mass., Brookline (Boston P. O.)—Fire Station—Bd. Selectmen, Town Hall, plans new fire station. $150,000 or more. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.)—Hospital—City, A. Cahill, hospital supt., 1493 Cambridge St., plans hospital addition, 1493 Cambridge St. $150,000 or more. Engineer and architect not selected.

Mass., Maynard—Bank—Maynard Trust Co., Main St., plans 2 story bank, Main St. $150,000. Engineer and architect not selected.

Mass., Quincy (Boston P. O.)—Theatre—W. J. Bradford, c/o W. J. Freethy, archt., 110 State St., Boston, having plans prepared 1 story and basement, rein.-con., brick and steel, plain foundation. $150,000.

Mass., Worcester — Store and Office — Barnard Press, c/o E. F. Chapin, archt., 340 Main St., having preliminary plans prepared 5 story and basement, brick, Mercantile and Front Sts. $175,000.

R. I., Newport — City Hall — Bd. Aldermen, plans reconstructing city hall, recently destroyed by fire. $200,000. Engineer and architect not selected.

Conn., New Haven—Theatre—Yale University having sketches made by Blackhall, Clapp & Whittemore, 20 Beacon St., Boston, Mass., theatre. $1,000,000.

N. Y., Brooklyn—Theatre—B. F. Keith, Inc., 1564 Bway., New York City, plans brick, steel and stone, plain foundation, Church Ave. and 21st St., here. $750,000. Private plans.

N. Y., Buffalo — Warehouses — Truscon Steel Co., 1030 Albert St., Youngstown, O., plans 2 rein.-con. and steel warehouses, Bailey and Williams Sts., here. $150,000.

N. Y., Flushing—Theatre—B. F. Keith, Inc., 1564 Bway., New York City, plans brick, steel and stone, plain foundation, Bway. and Main St., here. $850,000. Private plans.

N. Y., Jamaica—Theatre—B. F. Keith, Inc., 1564 Bway., New York City, plans brick, steel and stone, plain foundation, here. $750,000. Private plans.

N. Y., New York — Apartment — French Institute Realties Corp., 597 5th Ave., having plans prepared by J. H. Freedlander, 681 5th Ave., 6½ story, 44 x 100 ft., brick, steel and stone, plain foundation, 20 East 60th St. $175,000.

N. Y., New York — Garage — H. E. Koerner, archt., 164 State St., Bridgeport, Conn., soon lets contract 2 story, 100 x 100 ft., brick and steel, 139th St. and Southern Blvd., here, for Atlas Body Wks. Co., 137 McKinley Ave., Bridgeport, Conn.

N. Y., New York—Hotel—Fifteen East 69th Corp., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., having plans prepared 15 story, 62 x 200 ft., brick, steel and stone, plain foundation, Madison Ave. between 69th and 70th Sts. $1,000,000.

N. Y., New York—Loft—J. A. Coles, c/o Buckman & Kahn, archts. and engrs., 49 West 45th St., having plans prepared 16 story, 60 x 100 ft., brick, steel and stone, plain foundation, 15 West 39th St. $300,000.

N. Y., New York—Loft—J. Dorf, c/o G. and E. Blum, 505 5th Ave., having plans prepared 17 story, 98 x 103 ft., brick, steel and stone, plain foundation, 49-57 West 37th St. $1,800,000.

N. Y., New York—Office—Cedar William St. Corp., c/o Sloan & Robertson, archts. and engrs., 1 Pershing Sq., having plans prepared 18 story, 80 x 90 ft., brick, steel and stone, plain foundation, 40 Cedar St. $2,500,000.

N. Y., New York—Office—Cedar-William St. Corp., c/o Sloan & Robertson, archts. and engrs., 1 Pershing Sq., altering 15 story brick, steel and stone, plain foundation, 57 William St. $200,000.

N. Y., New York—Theatre—B. F. Keith, Inc., 1564 Bway., plans brick, steel and stone, plain foundation, Lexington Ave. and 86th St. $750,000. Private plans.

N. J., Dover—Hospital—Dover General Hospital having plans prepared by J. L. Vreeland, 16 West Blackwell St., 3 story, 85 x 152 ft. hospital. $165,000. F. S. and S. E. Sutton and E. H. Calkins, 402 Broad St., Newark, engrs.

N. J., Plainfield—Hospital—Muhlenberg Hospital plans hospital addition. $500,000. H. H. Pond, Plainfield, pres. bd. Engineer and architect not selected.

N. J., Trenton—Hotel—F. W. Donnelly, mayor, City Hall, plans 10 story hotel, Broad and Hanover Sts. $500,000. Engineer and architect not selected.

Pa., Meadville—Orphanage—I. O. O. F. having revised plans prepared by W. H. Crosby, Veach Bldg., Oil City, 2 story and basement, brick orphanage.

Pa., Mt. Lebanon—Theatre and Store—J. Gold, c/o Gold Realty Co., 534 4th Ave., having plans prepared by Sharon & Friedman, Berger Bldg., Pittsburgh, 2 story and basement, 100 x 200 ft., brick and steel, Washington Rd. $300,000.

Pa., New Castle—Poor House—Comrs. Lawrence Co., Court House, having plans prepared by A. L. Thayer, 39 North Jefferson St., 2 story and basement poor house, Elwood City Rd.

Pa., Pittsburgh—Apartment—W. Meyer & J. Simon, 527 5th Ave., having plans prepared 2 story and basement, brick on tile, 5251-53 Forbes St. $150,000. Private plans.

Pa., Willow Grove—Theatre and Apartment—Rothwell Co., c/o E. R. Rothwell, having plans prepared by H. W. Castor, St. Girard Bldg., Phila., 2 story and basement, 108 x 200 ft., brick and steel, plain foundation.

Md., Baltimore—Lodge—Order of Eastern Star, 1024 North Charles St., having plans prepared by C. N. and N. Friz, Lexington Bldg., 4 story and basement, 75 x 150 ft., brick, plain foundation, 1024 North Charles St. $250,000.

Md., Baltimore—Warehouse—I. Benesch & Sons, 549-71 North Gay St., having plans prepared by B. Frank, 328 North Charles St., 6 story and basement, brick, plain foundation, Aisquith and McElderry Sts. $150,000.

Fla., Jacksonville — Hotel — San Jose Estates Corp., H. P. Osborn, pres., Atlantic Natl. Bank Bldg., plans hotel between South Jocksonville and Pt. La Vista on St. Johns River. $750,000.

Fla., Miami—Hotel and Office—Palmer—Laramore, Inc., plans 16 story, rein.-con., steel, tile and stucco Bay Shore Dr. $1,500,000.

Fla., West Palm Beach — Hotel — W. J. Von Behren, C. M. Henderson & C. Johmer, and associates, having plans prepared by W. M. King, West Palm Beach, 15 story, 65 x 95 ft., rein.-con. and steel, Poinsetta St. $700,000.

La., New Orleans—Commercial—Favrot & Livaudais, archts., Hibernia Bank Bldg., take bids in June, 7 story, 96 x 120 ft. commercial building Canal and Claiborne Sts., for Syndicate composed of J. D. Butler, Jr., pres. Canal Commercial Trust & Savings Bank, Canal St. and F. F. Gunter, vice pres. Mortgage Securities Co. Interstate Bldg., $350,000. Noted Mar. 26.

La., New Orleans—Theatre—L. H. Varrutt, Maison Blanche Bldg., and N. I. Ehrlich, 1515 Dryades St., having plans prepared by Weiss & Dreyfous, Maison Blanche Bldg., brick and timber, Baronne and Philip Sts.

N. C., Charlotte—Bank and Store—First Natl. Bank having plans prepared by W. W. Cook, Boston, Mass., bank and store building. $300,000.

O., Canton — Hospital — Mercy Hospital, 723 Market Ave. N, plans 3 story and basement addition, on 140 x 650 ft. site, 6th St. and market Ave. N. $400,000-$500,000.

O., Cleveland—Apartment—J. Dolinsky, 9817 Parkgate Ave., having plans prepared by M. Altschuld, 5116 Woodland Ave., archt., 3 story and basement, brick, Hayden Ave. $200,000.

O., Cleveland — Apartment — Syndicate of Investors, c/o N. Weltman, 3220 Ormena Rd., having plans prepared by H. M. Beidler, 813 Ulmer Bldg., 3 story and basement, 46 x 133 ft., brick, East 105th St. and Elk Ave. $250,000.

O., Cleveland — Commercial and Apartment—Taylor Realty Co., c/o L. Katz, Swetland Bldg., had plans prepared by A. F. Janowitz, 811 Prospect Ave., 2 story and basement, 103 x 124 ft., brick and steel, West 101st St. and Detroit Ave. $150,000.

O., Cleveland—Market House—City, W. R. Hopkins, city mgr., City Hall, having preliminary plans prepared by H. Kregelius, City Hall, 2 story and basement, brick, steel and concrete annex, West 25th St. and Lorain Ave. $200,000.

O., Cleveland—Store—J. McCrory Stores, 1107 Bway., New York City, having plans prepared by J. F. Kuhn, engrs. and archts., 13 Central Sq., Youngstown, 4 story and basement, brick, steel and concrete addition, 500 Euclid Ave., here. $150,000.

O., Cleveland—Store, Office, Apartment and Theatre—W. T. Arnos, Engineer Bldg., plans 1 and 3 story, brick, steel and concrete, Green and Mayfield Rds. $150,000. Engineer and architect not selected.

O., Cleveland Heights (Warrensville P. O.)—Store and Apartment-Coventry Leasehold Co., c/o H. Caplan, 3469 East 123rd St., had plans prepared by A. J. Janowitz, 811 Prospect Ave., 3 story, 70 x 155 ft., brick, Lancashire and Coventry Rds. $150,000.

O., Norwood (Ind. br. Cincinnati)—Club—Masonic Blue Lodge, having plans prepared by C. F. Cellarius, 601 St. Paul Bldg., 2 story and basement, rein.-con. and brick, plain foundation, Hopkins Ave. $250,000.

Mich., Detroit — Hotel — L. Chesnow, archt., 242 West Lafayette Bldg., preparing plans 9 story and basement, 75 x 126 ft., rein.-con., brick and steel, plain foundation. $250,000. Owner's name withheld.

Ill., Chicago—Apartment—H. Sugar, 3700 Agatite Ave., having plans prepared by A. L. Heineblow, 30 North Dearborn St., 2 story and basement, 100 x 190 ft., rein.-con. and brick, plain foundation, Kenneth St. $200,000.

Ill., Chicago — Auto Sales — Locomobile Co. of Illinois, c/o M. S. Nelson, archt., 1722 North California Ave., having plans prepared 2 story and basement, 100 x 161 ft., rein.-con., brick and stone, plain foundation, 2400 Michigan Ave. $200,000.

Ill., Chicago—Hotel—E. A. Berchert, c/o J. A. Nyden, archt., 190 North State St., having preliminary plans prepared 6 story and basement, 100 x 150 ft., rein.-con., brick, stone and terra cotta, plain foundation, Hyde Park Blvd. $2,000,000.

Ill., Chicago—Hotel—Shoreland Hotel Co., c/o Fridstein & Co., archts. and engrs., 111 West Washington St., having plans prepared 13 story and basement, 198 x 355 ft., rein.-con., brick, steel, stone and terra cotta, caisson foundation, 5400 South Shore Dr. $8,000,000.

Ill., Chicago—Theatre and Office—Corporation, C. M. Wasson, pres., 343 South Dearborn St., having plans prepared by Lowenberg & Lowenberg, engrs. and archts., 111 West Monroe St., 3 story and basement, 125 x 175 ft., rein.-con., brick and terra cotta, plain foundation, Kedzie Ave. $900,000.

Ill., Chicago — Warehouse — Hickley & Schmidt, 418 West Ontario St., having plans prepared by S. S. Joy, 2001 Pershing Ave., 4 story and basement, 80 x 100 ft., rein.-con., brick and stone, plain foundation, West Antario St. $155,000.

Ill., Decatur—Armory—Dept. Pub. Wks. & Building, Capitol, Springfield, having preliminary plans prepared by W. J. Lindstrom, 707 South 8th St., Springfield, rein.-con., brick and stone, here, for Natl. Guard of Illinois. $300,000.

Ill., Evanston—Hotel—L. G. Arries, 140 South Dearborn St., having plans prepared by S. N. Crowen, archt. and engr., 10 South LaSalle St., 7 story and basement, 90 x 150 ft., rein.-con., brick and limestone, Sher-

Buildings—Commercial (Continued)

man St. between Church and Benson Sts. $2,000,000.

Ill., Peoria — Club — Peoria B. P. O. E. having plans prepared by Hewitt & Emerson, 1600 Peoria Life Bldg., 6 story and basement, 48 x 121 ft., rein.-con., steel and terra cotta, plain foundation, South Madison St. $230,000. Engineer not selected.

Wisconsin—Club—Wisconsin Gun & Reel Club, 5 North Wabash Ave., Chicago, Ill., having plans prepared by B. H. Jillson, 6 North Michigan Ave., Chicago, Ill., 2 story and basement, timber and field stone, plain foundation, lower Clam and McLaren Lakes, Sawyer Co. (Hayward), here. $500,000.

Wis., Milwaukee — Apartment — O. F. Priebe, 3501 Highland Blvd., soon takes bids 4 story, brick and tile, plain foundation, 15th St. $160,000. W. J. Kozick, 664 26th St., archt.

Ill., Des Plains—Bank and Office—Des Plains State Bank, B. F. Kinder, pres., having preliminary plans prepared by A. Niemz, 879 North State St., Chicago, 3 story and basement, 56 x 125 ft., rein.-con., brick and stone, Lee and Ellenwood Aves. $175,000.

Kan., Winfield—Bank and Office—State Bank having preliminary plans prepared by Weary & Alford, 1925 Calumet St., Chicago, Ill., 5 story and basement, 75 x 140 ft., rein.-con., brick and stone 9th and Main Sts.

Mo., St. Louis — Auto Service — G. T. Burdeau Real Estate Co., 801 Chestnut St., having preliminary plans prepared 1 story and basement, 130 x 275 ft., rein.-con. auto service building, Washington and Jefferson Sts. $150,000.

Tex., Amarillo — Hotel, etc. — Amarillo Hotel Co. soon takes bids 4 story and basement, 36 x 93 ft., brick and stone, plain foundation, 3rd St. $150,000. Shepard & Wiser, R. A. Long Bldg., Kansas City, Mo., engrs. and archts.

Tex., Amarillo—Hotel—E. A. Thompson, Amarillo Hotel Co., had plans prepared by Shephard & Wiser, 1208 Long Bldg., Kansas City, Mo., 4 story and basement, 36 x 93 ft., rein.-con., brick and stone addition. $150,000.

Tex., El Paso—Hotel—C. De Groff, c/o Hotel Orndorff, 300 Mesa St., had plans prepared by Trost & Trost, Two Republics Bldg., 11 story and basement, 110 x 127 ft., brick, stone and terra cotta, plain foundation, Mill St. and Mesa Ave. $1,000,000.

Tex., San Antonio—Theatre and Office—J. Oppenheimer, et al., take competitive bids about May 1, 6 story and basement, 90 x 110 ft., brick, stone and rein.-con., plain foundation, St. Marys and Commerce Sts. $1,500,000. Former contract rescinded. Noted Apr. 2.

Tex., San Angelo—Theatre—H. B. Robb, 3335 Normandy St., Dallas, and E. H. Rowley, 3513 Princeton St., Dallas, plan theatre, here. $175,000. Engineer and architect not selected.

Okla., Oklahoma City—Hotel and Apartment—G. L. Miller & Co., Hurt Bldg., Atlanta, Ga., had plans prepared by Hawk & Parr, Cotton Exch. Bldg., and soon takes bids 8 story and basement, 150 x 300 ft., rein.-con., plain foundation, 15th St., here. $1,250,000.

Wash., Seattle—Apartment — J. S. Hudson, Empire Bldg., had plans prepared 5 story and basement, 90 x 120 ft. apartment building, 1119 Boren Ave. $220,000. Private plans.

Wash., Seattle—Apartment-Hotel—Caledonian Hotel Co., Melhorn Bldg., having plans prepared by A. McQuaker, Melhorn Bldg., and soon takes bids 6 story and basement, brick and terra cotta, 5th and Union Sts. $165,000.

Wash., Seattle—Apartment—H. Bittman, archt., Securities Bldg., takes bids about May 30, 6 story and basement, brick and terra cotta, 131 Boren Ave., for C. S. Leede, Cobb Bldg. $350,000.

Calif., Baden (San Bruno P. O.)—Clubhouse—California Golf Club, c/o W. H. Crim, Jr. and W. Murdock, archts., 425 Kearny St., San Francisco, having preliminary plans prepared 3 story clubhouse, here. $150,000.

Calif., Berkeley—Office—First Natl. Bank having plans prepared by J. W. Plachek, Mercantile Bank Bldg., 1 story (ultimately 7 story), probably rein.-con., Center St. and Shattuck Ave. $150,000.

Calif., Del Monte—Hotel—Del Monte Properties Co., 620 Market St., San Francisco, having revised plans prepared by L. P. Hobart, Crocker Bldg., and C. A. Tantau, 251 Kearny St., San Francisco, rein.-con. hotel, here.

Calif., El Centro—Hotel—W. R. Conway, Barbara Worth Hotel, plans 3 story, 60 x 140 ft., rein.-con. annex.

Calif., Glendale—City having plans prepared by Jay, Rogers & Stevenson, 919 Washington Bldg., Los Angeles, 3 story, 50 x 150 ft. Y. M. C. A. building, Louise St. between Bway. and Wilson St. $250,000.

Calif., Glendale—Bank and Office—Pacific Southwest Trust & Savings Bank, 565 South Spring St., Los Angeles, plans approximately 6 story, Class "A" bank and office building. To exceed $150,000. Engineer and architect not selected.

Calif., Glendale—Club—C. F. Whittlesey, archt., 6533 Hollywood Blvd., Los Angeles, preparing preliminary plans 4 story and basement, 100 x 165 ft., Class "A" club, here. Owner's name withheld.

Calif., Hollywood — Club — J. Morgan, archt., Merchants Exch. Bldg., San Francisco, soon takes bids 3 story and basement, rein.-con. clubhouse for Hollywood Studio Club, 6129 Carlos Ave. $160,000.

Calif., Long Beach—Club—Long Beach Shore Club, Farmers and Merchants Bank Bldg., having plans prepared by M. C. Parker, Adair Bldg., Part 2 and 4 story, approximately 90 x 500 ft., timber and stucco club house. $200,000 or more.

Calif., Los Angeles—Club—Y. M. C. A., c/o Rogers & Stevenson, archts., Braley Bldg., Pasadena, having plans prepared 3 story, 150 x 150 ft., fireproof, Louise St. $200,000.

Calif., Los Angeles — Hospital — H. O. Mattern, c/o A. G. Bailey, archt., Hillstreet Bldg., having plans prepared 3 story and basement, 40 x 130 ft., rein.-con. hospital.

Calif., Los Angeles — Hotel and Store — K. Elliott, c/o Walker & Eisen, archts., Great Republic Life Bldg., having plans prepared 4 story and basement, 95 x 150 ft., brick and concrete, 6th St. and Normandie Ave. $200,000.

Calif., Los Angeles — Hotel — Hayward Hotel, Spring and 6th Sts., having plans prepared by Parkinson & Parkinson, Title Insurance Bldg., 14 story and basement, 60 x 82 ft., rein.-con. and steel, 6th St. $500,000 or more.

Calif., Los Angeles—Store and Hotel—A. I. Lasker, et al, c/o F. Rasche, designer, 5652 Hollywood Blvd., having plans prepared 4 story and basement, 100 x 155 ft., brick, 8th and Rampart Sts. $175,000.

Calif., Los Angeles — Store and Apartment—J. W. Kelly, c/o J. C. Austin, archt., Detwiler Bldg., and R. Falkenrath, Jr., associated archt., Chamber of Commerce Bldg., having plans prepared 4 story and basement, 50 x 150 ft., brick, Main and 37th Sts.

Calif., Marysville—Theatre—West Coast Theatres, Inc., 134 Leavenworth St., San Francisco, plans probably rein.-con. and steel, theatre, 2,000 seating capacity, 4th and D Sts. $150,000 or more. Engineer and architect not selected.

Calif., Morro Bay—Hotel and Clubhouse—See "Unclassified."

Calif., Oakland — Store — Kahn's Dept. Store, Bway. and 16th St., plans 3 or 4 story, fireproof store addition. $250,000. Engineer and architect not selected.

Calif., Oakland — Theatre — Golden Gate Realty Copr., c/o Reid Bros., archts., 100 Montgomery St., San Francisco, having plans prepared, rein.-con. and steel theatre with balcony, approximately 1,000 seating capacity, 14th St. and 27th Ave. $150,000.

Calif., Richmond — Hotel — Chamber of Commerce, etc., plans fireproof hotel. $300,000.

Calif., San Gabriel—Home—J. L. Mills (representing church interests) 118 East Commonwealth Ave., Alhambra, plans (1st unit) fireproof home for aged. $150,000.

Calif., San Francisco — Hospital — St. Joseph's Hospital, Buena Vista and Park Aves., plans replacing present structure with fireproof hospital, Park Ave. $500,000.

Calif., San Francisco—Nurses Home—San Francisco Nurses Assn., J. Morgan, archt., Merchants Exch. Bldg., having plans prepared 8 story and basement, rein.-con., brick and terra cotta, Pine St. $200,000.

Calif., San Francisco — Store, Office, Garage, etc.—Lessor, Aronson & Schoenberg, 58 2nd St., plans 10 story store and office building, with portion 3 or 4 story garage, both rein.-con., 4th St. $1,000,000. Engineer and architect not selected.

Calif., San Francisco—Theatre—T. and D., Jr., Enterprises, 150 Leavenworth St., plans rein.-con. theatre, 2,500 or more seating capacity, Polk St. near Green St. $250,000 or more. Engineer and architect not selected.

Calif., San Mateo — Lodge and Club — San Mateo Lodge, B. P. O. E., plans fireproof lodge and club building. $150,000 or more.

Calif., San Quentin—Penitentiary—State Building Comn., having preliminary plans prepared by G. B. McDougall, state archt., Forum Bldg., Sacramento, 3 story, women's ward building, rein.-con., with 3 story annex for cell quarters. $350,000.

Calif., Taft—Hotel—S. Orloff, c/o Edelman & Barnett, archts., H. W. Heilman Bldg., Los Angeles, had preliminary plans prepared, approximately 4 story, probably brick hotel. To exceed $150,000.

Mexico, Ensenada — Hotels, Clubhouses, Hospitals, etc. — Bexar Development Co., c/o Shea & Shea, archts., 454 Montgomery St., San Francisco, Calif., having plans prepared constructing country club, 3 hotels, hospitals, bath houses, administration building, amusement buildings, wharves, etc., here. $5,000,000.

Mexico, Tia Juana — Hotel — F. W. Stearns, c/o 1st Natl. Bank Bldg., San Diego, Calif., having preliminary plans prepared by L. Farwell, Laughlin Bldg., Los Angeles, Calif., 3 story, 250 room, rein.-con. hotel, here. $500,000.

Ont., Toronto—Garage—Toronto Transportation Comn., Ryrie Bldg., plans 1 story and basement, 120 x 167 ft. and 34 x 56 ft., brick and steel, Bathurst St., to Jackson Lewis Co. Ltd., Federal Bldg., $150,000.

Ont., Toronto—Recreation Hall—A. E. Furniss, 23 Glenfern Ave., plans 3 story and basement, 50 x 120 ft., rein.-con., brick and timber, plain foundation, Danforth Ave. $150,000. Engineer and architect not selected.

B. C., Vancouver — Apartment Hotel — American Syndicate, c/o A. H. Allen, Devonshire Apts, having plans prepared by F. C. Mahon, Seattle, Wash., and takes bids about May 1, 12 story and basement, 120 x 130 ft., rein.-con., brick, tile and terra cotta, plain foundation. $800,000.

B. C., Vancouver—Garage—Vancouver Motors Ltd., 1531 15th Ave. W., having plans prepared by Townley & Matheson, 325 Homer St., and takes bids about Apr. 30, 3 story, 120 x 125 ft., rein.-con., plain foundation, Seimour and Smythe Sts. $150,000.

BIDS DESIRED

N. H., Concord—Bank and Office—New Hampshire Savings Bank, North Main St., taking bids 5 story and basement, brick, plain foundation, North Main St. $150,000. J. D. Leland Co., 41 Mt. Vernon St., Boston, Mass., archts. Noted Feb. 5.

N. H., Nashua—Nurses Home—Nashua Memorial Hospital, A. Shea, chn., taking bids 2 story and basement, 40 x 105 ft., brick and stucco addition, plain foundation. $150,000. Stevens & Lee, 45 Newbury St., Boston, archts. Noted Mar. 12.

Mass., Canton—Club—Blue Hills Country Club, B. E. Morse, chn., taking bids 2 story and basement, 40 x 110 ft., brick and stone, Pecunit St. $150,000. M. Sullivan, 100 Boylston St., Boston, archt.

Mass., Forest Hills (Boston P. O.)—Hospital—Forest Hills Hospital, 29 Morton St., taking bids 4 story and basement, 45 x 150 ft., brick and steel, Morton St. $175,000 or more. Shepard & Stearns, 65 Franklin St., Boston, archts.

Mass., Malden—Store—S. J. Spector, 24 York St., Dorchester, will build 1 story and basement, 30 x 430 ft., brick, 290-334 Main St. $160,000. Work will be done by separate contracts. M. M. Halma, c/o owner, archt. Noted Mar. 26.

Mass., Somerville—Theatre—P. V. Vartoigian, c/o W. T. Littlefield, archt., 9 Hamilton Pl., Boston, taking bids 1 and 2 story, brick and steel, Bway and Marshall St., $150,000.

Mass., Springfield — Mercantile — Crane Co., 62 Hampden St., taking bids 3 story, 90 x 130 ft., brick, plain foundation, Columbus Ave. $175,000. McClintock & Craig, 33 Lyman St., archts. Noted Mar. 19.

Buildings—Commercial (Continued)

R. I., Woonsocket—Business and Apartment—Falk Bros., Social St., taking bids 4 story and basement, 80 x 110 ft., brick and steel, Social St. $150,000. O. H. Drouin, 255 Main St., archt.

Conn., Hartford—Apartment—Syndicate c/o Colaneri Bros., 709 Main St., taking bids 4 story, 54 x 68 x 85 ft., brick and stone, Maple St. $150,000. J. E. Marchetti, 721 Main St., archt.

Conn., New Britain—Garage and Store—F. Beloin will build 3 story about 85 x 180 ft., brick and concrete, Church St. $150,000. Work will be done by separate contracts.

Md., Baltimore—Exchange—Apr. 14, by McKenzie, Voorhees & Gmelin, archts., 1343 H St., Wash., D. C., 3 story and basement, 59 x 143 ft., brick, plain foundation, 1915-33 Madison Ave., here, for C. and P. Telephone Co., 5 Light St. $150,000.

N. C., Raleigh—State—Apr. 14, by R. A. Doughton, comr. Revenue, 5 story and basement, 100 x 150 ft., stone, concrete and terra cotta, (foundation already in), Salisbury St. $200,000. Atwood & Nash, Chapel Hill, archts.

O., Cleveland—Commercial and Garage—Miller & James Co., Erie Bldg., archts., taking bids 3 and 4 story, 60 x 100 ft., and 66 x 80 ft., brick, steel and concrete, 717 Superior Ave., for Rockwell Building Co., c/o C. S. and K. B. Britton, Caxton Bldg. $200,000. Noted Feb. 26.

O., East Cleveland (Cleveland P. O.)—Apartment — Euclid-Hastings Co., c/o S. Glaser, Ulmer Bldg., Cleveland, taking bids and open same about Apr. 10, 4 story, 50 x 200 ft., brick, 16001 Euclid Ave., here. $200,000. L. R. Walker, 1900 Euclid Bldg., Cleveland, archts. Noted Feb. 26.

O., Toledo—Exchange and Office—Ohio Bell Telephone Co., 231 Huron St., and Mills, Rheimes, Bellman & Nordoff, archts., 1234 Ohio Bldg., taking bids and open same about Apr. 18, 12 story, rein.-con., brick and steel exchange and office building. $2,000,000.

Mich., Highland Park (Detroit P. O.)—Lodge—F. O. Varney, archt., 1422 Washington Blvd., Detroit, taking bids and opens same about Apr. 10, 3 story and basement, 80 x 124 ft., rein.-con., brick and steel, plain foundation, Grand Ave., here, for Highland Park Lodge 563, F. & A. M. $200,000. Noted Jan. 26.

Ill., Berwyn — Apartment and Theatre—Hooper & Janursh, archts., 879 North State St., taking bids 2 story and basement, 125 x 165 ft., rein.-con., brick, steel and terra cotta, plain foundation, here, for H. T. Lynch, 4100 West North Ave., Chicago. $500,000.

Ill., Chicago—Apartment—Fargo Building Corp., 25 North Dearborn St., taking bids 3 story and basement, 90 x 125 ft., brick, and stone, plain foundation, 1300 Fargo Ave. $200,000. E. N. Nitsche, 8 East Huron St., archt.

Ill., Chicago — Apartment and Office — Kocher & Larson, archts., 6405 South Halstead St., taking bids 3 story and basement, 50 x 123 ft., rein.-con., brick and stone, plain foundation, 79th St., for B. Bell, 5620 South Wabash Ave. $150,000.

Ill., Chicago—Apartment—Erickson Bros., 1434 Glendale Ave., taking bids 3 story and basement, 90 x 157 ft., brick and stone, plain foundation, Home St. $160,000. Dubin & Eisenberg, 14 West Washington St., archts.

Ill., Chicago — Apartment — Newhouse & Bernham, archts., 4623 Drexel Blvd., taking bids 3 story and basement, 50 x 175 ft., brick, plain foundation, Keeler St., for E. A. Niermann, 4714 South Michigan Ave. $175,000.

Ill., Chicago — Apartment — M. Benson, 1758 East 72nd St., taking bids 3 story and basement, 110 x 120 ft., brick and stone, plain foundation, 72nd St. $150,000. Kocher & Larson 5405 South Halsted St., archts.

Ill., Chicago — Apartment — B. Fishbain, 1522 South Kolin Ave., taking bids 3 story and basement, 100 x 135 ft., brick and terra cotta, Cicero and Quincy Sts. $175,000. A. Jacobs, 160 North LaSalle St., archt.

Ill., Chicago — Warehouse — Graham, Anderson, Probst & White, archts. and engrs., 80 East Jackson Blvd., taking bids 14 story and basement, rein.-con., brick and stone, caisson foundation, North Water St., for Hibbard, Spencer Bartlett Co., 303 North State St. $4,000,000.

Ill., Evanston—Apartment—A. V. Teisen, archt., 4804 North Kedzil Ave., Chicago, taking bids 3 story and basement, 102 x 119 ft., rein.-con., brick and terra cotta, Clyde St., here. $150,000. Owner's name withheld.

Ia., Marshalltown—Hospital—H. Reimer, archt., Kibbey Bldg., or Superintendent Deaconess Hospital Assn., 35th and Main Sts., taking bids 4 story and basement, 45 x 180 ft., rein.-con., brick and stone, Main St. $325,000. K. Rest, pastor. Noted Dec. 25.

Minn., St. Paul—Hospital—Apr. 17, by Ramsey Co. Bd. Control, O. J. Tong, secy., Court House, 4 story and basement, 150 x 160 ft., rein.-con., brick and stone addition, Jefferson St. $400,000. Buecher & Orth, 500 Shubert Bldg., archts. Noted Feb. 26.

Tex., Dallas — Garage — Barglebaugh & Beinke, archts., 1902 Medical Arts Bldg., taking bids 4 story and part basement, 50 x 108 x 165 ft., brick, terra cotta and rein.-con., Paul St. and Pacific Ave., for Cary-Schneider Investment Co., Medical Arts Bldg. $150,000.

Calif., Los Angeles—Garage—City, rein.-con. and steel garage annex, South Hill St., from North Pacific Constr. Co., Detwiler Bldg., $192,593.

Calif., Los Angeles—Hall—Los Angeles Co., general contract Patriotic Hall, 5 story and basement, brick and rein.-con., from C. T. McGrew & Bros., 1345 West Ocean Blvd., Long Beach, $160,163.

Calif., Los Angeles—Police Station—Apr. 14, by Bd. Pub. Wks., 2 story and basement, 70 x 155 ft., rein.-con. and brick, West Pico St. $150,000. Noted Feb. 19.

Calif., San Pedro—Club—Jay, Rogers & Stevenson, archts., Washington Bldg., Los Angeles, taking bids about Apr. 10, 5 story and basement, 145 x 185 ft., rein.-con., Beacon St., for Y. M. C. A., here. Noted Jan. 8.

CONTRACTS AWARDED

Mass., Boston—Apartment—Ninety Commonwealth Ave., Inc., c/o G. N. Jacobs, archt., 4 Park St., will build 8 story and basement, brick and cast stone, plain foundation, 90 Commonwealth Ave., by day labor under supervision of architect. $300,000. Noted Apr. 2.

Mass., Boston—Bank—Five Cent Savings Bank, W. E. Evans, pres., School St., 10 story and basement, 80 x 130 ft., rein.-con., brick and steel, 24-32 School St., to W. A. and H. A. Root, Park Sq. Bldg. Archts. est. $1,000,000. Noted Feb. 5.

Mass., Cambridge (Boston P. O.) — Garage—Kendall Sq. Building Trust, c/o F. E. Leland, archt., 292 Main St., 3 story, 105 x 292 ft., rein.-con., 20-50 Hayward St., Kendall Sq., to S. C. Sperry Co., 292 Main St. Archts. est. $250,000.

Mass., Haverhill—Clubhouse—Haverhill Country Club, 3 story, 60 x 150 ft., rein.-con., brick and stucco, to E. W. Pitman Co., Bay State Bldg., Lawrence. Archts. est. $150,000. Noted Feb. 26.

Mass., Melrose—Memorial—City, T. J. Edward, chn., Building Comn., 3 story and basement, brick and steel addition to soldiers and sailors memorial building, to Casey & Darcy, 1179 Tremont St., Roxbury. Archts. est. $150,000. Noted Mar. 19.

Mass., Pittsfield—Store and Office—Linden Realty Co., 41 North St., 2 story and basement, 85 x 100 ft., rein.-con. and brick, plain foundation, Linden and Worth Sts., to H. Bridgman, 100 North St. Archts. est. $150,000.

N. Y., New York—Apartment—J. F. Constr. Co., c/o S. V. Becker, archt. and engr., 1301 Boston Rd., will build 6 story, brick, steel and stone, plain foundation, Elliott Pl., by day labor. $225,000.

N. Y., New York—Apartment—Zimmerman Realty Co., c/o Margon & Glaser, archts. and engrs., 2806 23rd Ave., will build 5 story, brick, steel and stone, plain foundation, Bryant Ave. and 176th St., by day labor. $225,000.

Pa., Haverford—Apartment—R. E. Engle, Beach Haven, N. J., 4 story and basement, 48 x 69 ft. with two wings 33 x 126 ft., rein.-con. and stone, plain foundation, Montgomery Ave., to A. F. Hopewell, Rochester, N. Y. Archts. est. $300,000.

Pa., Johnstown—Municipal—City Council, City Hall, general contract 5 story and basement, 85 x 100 ft., brick on hollow tile and steel, Washington and Market Sts., to Berkibile Bros., Swank Bldg. Archts. est. $250,000. Noted Feb. 19.

Pa., Phila. — Bank — Federal Reserve Bank, 923 Chestnut St., 5 story and basement, 56 x 90 ft., brick and steel annex, plain foundation, 10th St. above Chestnut St., to J. Myers Sons Co., Witherspoon Bldg. Noted Feb. 26.

O., Akron—Storage—B. F. Goodrich Rubber Co., South Main St., 6 story and basement, 200 x 450 ft., brick and rein.-con., to Carmichael Constr. Co., 524 Central Savings & Trust Bldg. Archts. est. $500,000. Noted Mar. 5.

O., Canton—Mercantile—Thurin Carpet & Rug Co., 205 2nd St. N.E., 2 story and basement, 33x200 ft., steel, brick, concrete and terra cotta, Market Ave. N. between 4th and 5th Sts., to L. Kilgore, 351 21st St. N.W., $150,000. Noted Mar. 26.

O., Cincinnati—Apartment—C. P. Taft, 316 Pike St., 1 story and basement, 97 x 189 ft., rein.-con. and brick, plain foundation, 4th St., to Ohio Building & Constr. Co., Burnet Ave., $2,000,000.

O., Cleveland — Infirmiry — Dept. Pub. Welfare, Columbus, 2 story and basement, 146 x 180 ft., rein.-con. and brick, Cleveland State Hospital Grounds, here, to Reaugh Constr. Co., 2861 East 51st St., $143,000. Noted Mar. 12.

O., Cleveland—Lodging and Club House—Junior League of Cleveland, c/o J. Garfield, chn. Bd. Trustees, 2344 Prospect Ave., 4 story and basement, 40 x 112 ft., brick, steel and concrete addition, 2344 Prospect Ave., to Van Blarcom Co., National Bldg. Archts. est. $250,000. Noted Oct. 23.

O., Cleveland—Storage—Neal Fireproof Storage Co., A. W. Neal, pres., 7208 Euclid Ave., 7 story and basement, brick and rein.-con., Detroit Ave. and New York, Chicago & St. Louis R.R. tracks, to E. F. Gibbons Constr. Co., Union Trust Bldg. Archts. est. $200,000. Noted Mar. 19.

O., Lakewood (Cleveland P. O.)—Commercial and Apartment—Thompson Impvt. Co., c/o J. W. Thompson, 318 Chester-Twelfth Bldg., Cleveland, 3 story and basement, 68 x 100 ft., and 60 x 82 ft., brick and timber, Detroit and Lakeland Aves., here, to Duchon Constr. Co., Ulmer Bldg., Cleveland. Archts. est. $250,000. Noted Dec. 25.

O., Youngstown—Store—S. H. Kress Co., 114 5th Ave., New York City, 3 story and basement, 75 x 150 ft., brick, steel and concrete, West Federal St., to Austin Co., 16,112 Euclid Ave., Cleveland. Archts. est. $200,000.

Mich., Detroit—Theatre—Detroit Metropolitan Corp., Washington Blvd. Bldg., 12 story and basement, 150 x 220 ft., rein.-con., brick and steel, plain foundation, Bagley Ave., to Lundoff-Bicknell Co., B. F. Keith Bldg., Cleveland, O. Archts. est. $4,000,000. Noted Apr. 2.

Mich., Detroit—Theatre—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., 2 story and part basement, 60 x 150 ft., rein.-con., brick and tile, plain foundation, Jefferson Ave., to Fruechtel-Earl Co., 120 Madison Ave., for Players Holding Co. Archts. est. $150,000. Noted Jan. 29.

Wis., Fond du Lac—Theatre and Business—C. W. and G. L. Rapp, archts., 190 North State St., Chicago, Ill., 2 and 3 story and basement, 122 x 190 ft., brick, concrete and terra cotta, plain foundation, Main St., here, to Immel Constr. Co., Dana Bldg., for W. Schroeder, 86 Michigan Ave., Milwaukee. Archts. est. $350,000. Noted Mar. 12.

Wis., Milwaukee—Garage—E. W. Clark Motor Co., 456 Jackson St., 3 story part basement, 97 x 118 ft., brick and concrete, plain foundation, Ogden Ave., to Immel Constr. Co., Dana Bldg., Fond du Lac. Archts. est. $150,000. Noted Mar. 19.

Wis., Milwaukee—Refectory and Hospital—R. Messmer & Bros., archts., 221 Grand Ave., 2 story and basement, 32 x 50 ft., and 73 x 100 ft., brick and concrete, plain foundation, 31st St., to Dahlman Constr. Co., 456 Bway., for Concordia College, 3127 State St. Archts. est. $150,000. Noted Feb. 19.

Mich., Mt. Clemens—Hospital—Childrens Orthopedic Hospital, 2 story and basement, 80 x 215 ft. and 50 x 63 ft., rein.-con., brick and steel, plain foundation, Ballard Rd., to R. Hill, 408 West Fort St., Detroit. Archts. est. $150 000. Noted Mar. 12.

Ill., Joliet—Office and Theatre—H. A. and M. L. Reubens, c/o Princess Theatre, 4 story and basement, 150 x 200 ft., rein.-con., brick, stone and steel, Clinton and

Buildings—Commercial (Continued)

Scott Sts., to Kaiser & Ducett Constr. Co., Joliet Natl. Bank Bldg.

Minn., St. Paul—Warehouse and Garage—Tri-State Telephone & Telegraph Co., 369 Cedar St., general contract 3 story and basement rein.-con., brick and tile, 10th St. between Robert and Minnesota Sts., to P. Steenberg Constr. Co., 535 Endicott Bldg., about $150,000. Noted Feb. 5.

Kan., Hiawatha—Jail and Court House—Brown Co., general contract jail, 2 story and basement, 32 x 65 ft., and court house, 3 story and basement, 91 x 106 ft., rein.-con., brick and stone, to H. E. Wood, Aurora, Neb., $254,827; plumbing, to Industrial Heating & Plumbing Co., St. Joseph, Mo., $25,453.

Mo., St. Louis—Apartment and Garage—S. Hamburg, Arcade Bldg., 4 story and basement, 80 x 206 ft., rein.-con., brick, stone and terra cotta, 4616 Lindell Blvd., to Boaz-Kiel Constr. Co., Chouteau Trust Bldg. Archts. est. $450,000.

Mo., St. Louis—Natatorium, etc.—New Coliseum Co., 2608 Washington Ave., remodeling and improving 5 story, 203 x 291 ft. and 147 x 285 ft. coliseum into natatorium and recreational center, Washington, Jefferson and Locust Sts., to Natatorium Constr. Co., 50 East 42nd St., New York City. Archts. est. $250,000.

Mo., Springfield—Garage—N. F. Fellows, et al., 529 St. Louis Ave., 2 story and basement, 50 x 175 ft., rein.-con., brick and stone commercial garage, to Pauley Constr. Co., Land Bank Bldg.

Tex., Dallas—Warehouses—J. H. Simmons, North Texas Bldg., 3 and 4 story, 100 x 150 ft., brick and rein.-con., plain foundation, Griffin St., to Inge Constr. Co., Swiss and Hawkins Sts., $160,000 cost plus percentage basis.

Tex., Houston—Bank and Lodge—Owner, c/o H. L. Irwin, 3 story, 75 x 100 ft., brick, stone and rein.-con., Heights Blvd. and Washington Ave., to Tellepsen Constr. Co., 4100 Clay St., $175,000.

Calif., Los Angeles — Apartment — G. Kraus, 2047 West 28th St., 4 story and basement, 75 x 150 ft., brick and steel, Orange Dr., to E. M. Erdaly, 2096 West 28th St., approximately $150,000. Noted Jan. 8.

Calif., Los Angeles—Exchange—Parkinson & Parkinson, archts., Title Insurance Bldg., 3 story (ultimately 7 story) and basement, brick and steel, Meridan St., to Winter Constr. Co., 2400 West 7th St., for Southern California Telephone Co., 740 South Olive St. Approximately $157,125. Noted Mar. 26.

Calif., Los Angeles—Theatre and Apartment—West Coast Theatres, Inc., Knickerbocker Bldg., 2 story, 155 x 190 ft., rein.-con. and brick, 10th St. and Western Ave., to L. A. Smith, Lilly-Fletcher Bldg., $205,-500.

Calif., Oakland — Theatre — Reid Bros., archts., 150 Montgomery St., San Francisco, 2 story, Class "A" Theatre, Grand, Lakeside and Walker Aves., to G. B. Pasqualetti, 2330 Larkin St., San Francisco, for Karkski & Kaliski, c/o architects. $172,-000. Noted Mar. 5.

Calif., Santa Monica—Club—Edgewater Club, Grosse Bldg., Los Angeles, 7 story and basement, rein.-con., Pico St. and Ocean Front, to Winter Constr. Co., 2400 7th St., Los Angeles, $425,000.

Buildings—Educational, Religious

PROPOSED WORK

Mass., Acton—High School—City, E. Hall, chn. com., plans 2 story, high school, Kellys Corner. To exceed $150,000. Engineer and architect not selected.

Mass., Chelmsford — School — School Bd. having plans prepared by H. P. Graves, 40 Middlesex St., Lowell, 2 story and basement, brick and stone, plain foudation. $150,000.

Mass., New Bedford—High School—City, Municipal Bldg., rejected bids Mar. 25, 3 story and basement, brick and limestone, Court and County Sts. $1,000,000. Project abandoned. Noted Mar. 5.

Mass., New Bedford — High Schools — City, Municipal Bldg., plans Junior High School in south section, $500,000, Leary & Walker, 307 Times Bldg., archts., also North Junior High School, $500,000, W. Tallman, 127 Union St., archt. Noted Jan. 15.

Mass., South Braintree (Ind. br. Boston) — School — School Bd., Braintree, plans grade school here. $150,000. Engineer and architect not selected.

Mass., Ware—Church—East Congregational Church Society, C. B. Weatherby, chn. building com., having sketches made by Frohman, Robb & Little, 140 Boylston St., Boston, 1 story and basement, brick and stone church. $150,000. Noted Mar. 12.

Conn., East Hartford (Hartford P. O.)—School—W. R. Carroll, chn. of bd., Comstock Bldg., having plans prepared by W. T. Marchant, 36 Pearl St., Hartford, 2 story and basement, brick and steel, Darien St. $150,000.

N. J., Englewood—Parish House—Englewood Presbyterian Church soon takes bids 3 story and basement, stone and stucco, plain foundation. $150,000 or more. Allen & Collins, 75 Newbury St., Boston, Mass., archts.

Pennsylvania—School—East Deer Twp. Bd. Educ., c/o J. H. Clark, supt., Tarentum, having plans prepared by J. H. Phillips, P. O. Box 977, Pittsburgh, 2 story and basement, 90 x 159 ft., brick and tile grade school, between Glassmere and Creighton. $150,000.

Pa., Bryn Mawr—Students—Bryn Mawr College having plans prepared by Cram & Ferguson, 248 Boylston St., Boston, Mass., students building. To exceed $150,000.

Md., Baltimore—Church, Sunday School and Parsonage—First and St. Stephens Reformed Church, c/o C. N. and N. Friz, archts., Lexington Bldg., having plans prepared 1 and 2 story, 70 x 120 ft. brick, plain foundation, York Rd. $150,000.

N. C., Gastonia—Schools—Voted $200,000 bonds, new grammer school and improving high school.

Ala., Huntsville — High School — Plans new high school. $150,000 bonds sold.

La., Shreveport—Church—Kings Highway Christian Congregation having preliminary plans prepared by Jones, Roessle, Olschner & Weiner, Maison Blanche Bldg., New Orleans, 2 story, rein.-con. and brick church and Sunday school. $250,000.

O., Cleveland—College—Sisters of Notre Dame, Mother Evarista, Sister Superior, 1325 Ansel Rd., having plans prepared by T. D. McLaughlin, 610 Savings Bldg., Lima, 3 story and basement, brick, steel and concrete, Green Rd. $350,000.

Mich., Detroit—School—St. Marys Parish, St. Mary and Grand River Aves., having plans prepared by McGrath, Dohman & Page, 2231 Park Ave., 2 story and basement, 100 x 107 ft., rein.-con., brick and steel, plain foundation, Grand River Ave. $160,000.

Ia., Des Moines—Educational Exhibit—State of Iowa Fair Assn., having sketches made by Keffer & Jones, 504 Masonic Temple Bldg., 2 story and basement, brick and concrete, fair grounds. $250,000.

Minn., Minneapolis—School—St. Helena's Roman Catholic Parish, 432 33rd Ave. S., having plans prepared by J. H. Wheeler, 508 Exchange Bank Bldg., St. Paul, 2 story and basement, brick and stone, 33rd Ave. S. and 43rd St. $175,000.

Minn., St. Peter — Science — Gustavus Adolphus College, C. J. Johnson, plans 2 story and basement, rein.-con., brick and stone science building. $300,000. Engineer and architect not selected.

Mo., Columbia — Church — Christian Church Congregation plans church. $300,-000 of which $125,000 is available. W. M. Haushater, pastor.

Mo., Kirksville—School—Bd. Educ. election Apr. 7, $200,000 bonds for school. Engineer and architect not selected.

Okla., Okmulgee—Church—Catholics of Okmulgee had plans prepared by Mormot & Reid, Elks Bldg., Oklahoma City, 1 story and basement, 80 x 175 ft., rein.-con. and brick church. $250,000.

Okla., Tulsa—High School—Bd. Educ., F. E. Duncan, pres., having plans prepared by L. I. Shumway, 725 New Wright Bldg., Junior High School, 2 story and basement, 128 x 282 ft., rein.-con., brick and steel, plain foundation, 11th and Delaware Sts., $350,000. Cook & White, 409 Interstate Bldg., Kansas City, Mo., mechanical engr.

Wash., Seattle — Schools — City having plans prepared by F. A. Naramore, city archt., additions to Ballard High School, Franklin High School, Georgetown Intermediate High School, intermediate near Lincoln High School, North End Intermediate School, etc. $2,250,000. Noted Jan. 29.

Calif., Albany—Church—Albany Community Methodist Church, Marion and Stannage Aves., plans church, Stannage Ave. $150,000.

Calif., Beverly Hills—University—State plans election approximately $2,500,000 bonds, group of buildings, for University of Southern California, here.

Calif., Burlingame — School — Roman Catholic Archbishop, 1100 Franklin St., San Francisco, having plans prepared by G. E. McCrea, 369 Pine St., San Francisco, 2 story, rein.-con. school, here. $150,000.

Calif., Carmel—School—Carmel Grammar School Dist. having plans prepared by J. J. Donovan, Tapscott Bldg., Oakland, fireproof school. $150,000.

Calif., Culver City — Academy — Pacific Military Academy, having plans prepared by H. H. Whiteley, Madison Ave., 3 story and basement, 120 x 220 ft., probably brick military academy.

Calif., Escondido — School — Escondido Union High School Dist. plans election $150,000 bonds, group of school buildings.

Calif., Fresno—Church—Trinity Methodist Episcopal Church, c/o J. E. Vandagriff, pastor, having preliminary plans prepared by Tuttle & Tuttle, 363 17th St., Oakland, for church, Van Ness Ave. $150,000.

Calif., Glendora — School — Girl's Collegiate School, c/o M. Hunt, archt., Hibernian Bldg., Los Angeles, having plans prepared (1st unit) 5 buildings comprising classrooms, housing accomodations, etc. $200,000.

Calif., Los Angeles—Church—Immanuel Presbyterian Church, H. B. Smith, pastor, 1000 South Figueron St., had plans prepared by C. F. Skilling, 430 Bradbury Bldg., 2 story and basement, 135 x 150 ft., rein.-con. and steel, Wilshire Blvd. and Berendo St. $800,000.

Calif., Oakland — School — City having plans prepared by W. J. Miller, 417 Market St., San Francisco, Hamilton School, 1 story, stucco and timber. $180,000.

Calif., Redlands — Dormitory — N. F. Marsh, archt., Bway.—Central Bldg., Los Angeles, soon takes bids 3 story, 50 x 175 ft., rein.-con. dormitory, for University of Redlands. $150,000. Noted Feb. 19.

Calif., San Francisco—Schools—City and San Francisco Co. having plans prepared by J. Reid, Jr., 1st Natl. Bank Bldg., 2 schools, 1 in Forest Hill Dist. and other at 17th and Sanchez Sts., both fireproof. Each to exceed $150,000.

Ont., Belleville—Collegiate—Bd. Educ., A. McGee, chn. 208 Front St., plans 3 story and basement, 25 room, rein.-con., brick and steel, plain foundation. $350,000. Engineer and architect not selected.

Ont., Kingston—School—Bd. Educ. wants competitive plans for 2 story and basement, 8 room, rein.-con., brick and steel addition to Rideau School, plain foundation. $150,000. T. G. Bishop, trustee.

Ont., Welland — School — School Bd., D. Ross, chn., plans 2 story and basement, 8 or 10 room, rein.-con., brick and steel, plain foundation, North Ward. $150,000. Engineer and architect not selected.

BIDS DESIRED

Mass., Arlington (Boston P. O.)—School—Bd. Educ., E. R. Baker, chn., taking bids 2 story and basement, 80 x 155 ft., brick and stone, plain foundation, Lake St. $200,000. Brainard & Leeds, 89 Franklin St., Boston, archt. Noted Mar. 12.

Mass., Attleboro—High School—School Bd. taking bids 2 story and basement, brick addition. $200,000. H. B. Prescott, 12 Pearl St., Boston, archt. Noted Jan. 29.

Mass., Fall River — Church — Union Methodist Episcopal Church, R. A. Colpitts, pastor, Prospect St., taking bids 1 and 3 story, brick and stone church and parish house, Howard Ave. and Pearce St. $350,-000. Woodbury & Stuart, 581 Boylston St., Boston, archt. Noted Mar. 29.

Mass., Grafton—Schools—School Bd. taking bids 2 story and basement, brick and stone new school and 2 school additions. $150,000. Brainard & Leeds, 89 Franklin St., Boston, archt. Noted Feb. 5.

Mass., Holden — High School — School Comn., taking bids 2 story and basement, rein.-con., brick and stone, plain founda-

Buildings—Educational, Religious (Cont.)

tion. $150,000. Brainard & Leeds, 89 Franklin St., Boston, archts. Noted Feb. 19.

Mass., Randolph—High School—School Comn., taking bids 2 story and basement, brick and stone addition, Main St. $150,000. Funk & Wilcox, 26 Pemberton Sq., Boston, archts. Noted Feb. 19.

Mass., Swampscott—Church—First Congregational Church taking bids 1 story and basement, 60 x 100 ft., brick and stone, Burrill St. $150,000. Smith & Walker, 80 Boylston St., Boston, archts. Noted May 22.

R. I., Providence—Church, etc.—Sacred Church of Christ Christian Science Parish, c/o C. H. Lockwood, archt., 171 Westminster St., taking bids 1 story, 70 x 100 ft., brick and steel church and reading room, plain foundation. $150,000-$175,000. Noted Mar. 19.

N. Y., Buffalo—School—Apr. 16, by Bd. Educ., 900 Genesee Bldg., P. S. 72, Lorraine Ave. $500,000.

Pa., Perrysville — Convent — Kauzor Bros., archts., Dollar Savings & Trust Bldg., N. S. Pittsburgh, taking bids 4 story and basement, brick on hollow tile and steel, near here, for Sisters of Divine Providence, 1725 Lincoln Ave., Pittsburgh. $500,000.

Pa., Phila. — Church — Apr. 13, by P. Monaghan, archt., 1713 Sansom St., stone and steel, plain foundation, Price and Arleigh Sts., for Church Immaculate Conception, c/o M. J. Higgins, pastor. $200,000.

Pa., Phila. — High School — Apr. 11, by Hoffman-Henon Co., archts., Finance Bldg., 3 story and basement, 75 x 82 ft., and 70 x 345 ft., brick and steel, plain foundation, Jasper Pike, Hunting Park and Torresdale St., for Catholic Diocese of Phila., 18th and Race Sts.

Pa., West View — Mother House and Academy—Kauzor Bros., archts., Dollar Savings & Trust Bldg., Pittsburgh, taking sub-bids 3 story and basement, 156 x 272 ft., Perrysville and West View Aves., here, for Benedectine Sisters, 832 Church Ave., Pittsburgh. Noted Aug. 14.

Conn., Southington—School—Apr. 15, by Town 2 story, 80 x 147 ft., tapestry brick and stone, Main St. $160,000. W. T. Arnold, 32 West Main St., Meriden, archt. Noted Apr. 2.

O., Norwood—School—Apr. 20, by Bd. Educ., 1 story and basement, rein.-con. and brick, Hannaford St. $200,000. S. Hannaford & Sons, 1024 Dixie Terminal Bldg., Cincinnati, archts. Noted Mar. 12.

Ill., Chicago—School—Bd. Educ., J. E. Byrnes, bus. mgr., 650 South Clark St., taking bids 3 story and basement, rein.-con., brick and stone addition to Franklin School, plain foundation. $400,000. J. C. Christensen, 650 South Clark St., archt.

Ill., Downers Grove—School—Shattuck & Layer, archts., 19 South LaSalle St., Chicago, taking bids 2 story and basement, 69 x 125 ft., rein.-con. and brick, plain foundation, here, $165,000 for St. Josephs Catholic Church, E. B. Goodwin, pastor.

Neb., Lincoln—High School—Apr. 22, by Bd. Educ., J. G. Ludlam, secy., Clinton High School, 2 story and part basement, 172 x 236 ft., rein.-con., brick and terra cotta or stone, 29th and Holdredge Sts. $250,000. Fiske, Meginnis & Schaumber, 533 Bankers Life Bldg., archt. Noted Mar. 19.

Neb., Lincoln—School—Apr. 23, by Bd. Educ., J. G. Ludlam, secy., 2 story and basement, 65 x 100 ft., rein.-con., brick and stone, Sheridan Park and Wendover Ave. $150,000. Davis & Wilson, 525 South 14th St., archts. Noted Jan. 15.

Mo., Hannibal — High School — Apr. 17, by Bd. Educ., E. F. Mangles, secy., Eugene Field Jr., High School. 2 story and basement, rein.-con. and brick. $175,000. M. S. Martin, Odd Fellows Bldg., archt.

Calif., Los Angeles—Schools—Apr. 15, by Bd. Educ., Vernon School, 2 story, 125 x 125 ft., timber, Ruoff & Munson, Story Bldg., archt.; and 3 story, 20 classroom School, 3 story, 90 x 165 ft. gymnasium and 1 story, 77 x 131 ft., all brick and concrete additions to Roosevelt High School. Hunt & Burns, Laughlin Bldg., archts. Noted Apr. 2.

BIDS RECEIVED

Mass., New Bedford—High School—School Comn., 3 story and basement, 150 x 225 ft., rein.-con., brick and steel, County and Morgan Sts., from J. Bowen & Co., 108 Dudley St., Roxbury, $840,000. Noted Feb. 26.

Md., Baltimore—School—Mayor and City Council, 3 story, 83 x 142 ft., concrete and brick, plain foundation, Old Frederick Rd., from Price Constr. Co., Maryland Trust Bldg., $245,900.

Ill., Fairfield—School—Bd. Educ., Mar. 31, general control 3 story and basement, 60 x 160 ft. school and 54 x 70 ft. gymnasium, rein.-con., brick and stone, from Barenfanger Bros., Salem, $111,193. Noted Mar. 26.

Calif., Oakland—School—Bd. Educ., Mar. 24, general contract Cole School, fireproof, from A. Olson, Builders Exch. Bldg., $137,398. Noted Mar. 19.

CONTRACTS AWARDED

Mass., Newtonville (Ind. Br. Boston)—High School—City of Newton, H. Fitts, city chn., 3 story and basement, brick and stone, plain foundation, Elm Rd. and Walnut St., here, to C. S. Cunningham & Sons Constr. Co., 80 Boylston St., Boston, $568,564; plumbing, to R. H. Baker & Co., 304 main St., Cambridge, $30,357; heating system, to Lynch & Woodward, 202 Harrison Ave., Boston, $57,953. Noted Mar. 19.

Mass., Worcester—School—Pub. Buildings Dept., Main St., 2 story and basement, 60 x 120 ft., brick and stone, Crawford St., to O. Dyer, 10 Bell Ave. Archts. est. $150,000. Noted May 26.

Conn., Norwich—School—St. Joseph Roman Catholic Parish, S. A. Ilick, pastor, 2 story and basement, brick and cast stone, Bliss St., to P. F. Sweeney, 25 Chestnut St. Archts. est. $150,000. Noted Mar. 26.

Conn., Waterbury—School—St. Josepns Roman Catholic Church, 2 story and basement, 70x100 ft., brick and stone, on John St., to Lariviere & Highland, 280 South Main St. $150,000.

N. J., Riverside—School—Bd. Educ., 3 story, 12 room addition to Washington St. School, general contract to C. Moses, Edgewater Park, $115,974; heating, to G. H. Orfe, Jr., Riverside, $28,838.

Mich., Detroit—College—D. A. Bohlen & Son, archts., North Illinois St., Indianapolis, Ind., 3 story and basement, rein.-con., brick and stone, plain foundation, Wyoming Ave., here, to W. E. Wood & Co., 1805 Ford Bldg., for Immaculate Heart of Mary College, 1219 Washington Blvd. Archts. est. $300,000. Noted Mar. 5.

Mich., Detroit—School—Bd. Educ., 1354 Bway., 2 story and basement, rein.-con., brick and steel, plain foundation, Dickerson Ave., to M. A. Mahoney, 400 Penobscot Bldg. Archts. est. $175,000.

Minn., Minneapolis—Schools—Bd. Educ., 305 City Hall, 2 story and basement rein.-con. addition, 44th and Girard Aves. N., general contract, to J. Fletcher Co., 505 Plymouth Bldg., $80,000; 2 story and basement, 40 x 150 ft. rein.-con. addition, Oliver and 10th Aves. N., to Pehrson Bros., 555 Temple Court, $59,456. Noted Apr. 2.

Mo., Normandy — College — Passionist Preparatory College, 2 and 3 story, rein.-con., brick and stone seminary and college incl. dormitory, study hall, refectory, kitchen, recreation rooms, class rooms and enclosed cloister connecting new chapel with main building, to Duffner & Stecker Constr. Co., 119 North 7th St., St. Louis. Archts. est. $160,000.

Tex., Houston—High School—Bd. Educ., 1600 Washington Ave., Eastwood Junior School, 3 story, brick, stone, steel and rein.-con., Polk Ave. and Baird St., to C. Curts, 200 Preston Ave., $406,600; Junior High School, 3 story, brick, steel, stone and rein.-con., at Norhill addition, to C. E. Raper & Son, 1709 Yale St., $432,000. Noted Feb. 26.

Calif., Alhambra—Church—C. F. Skilling, archt., Bradbury Bldg., Los Angeles, 50 x 95 ft. sunday school building, 65 x 145 ft. educational building, and 65 x 70 ft. pastors study, etc., all 1 story, brick and timber, Main and Almanson Sts., here, to Steed Bros., 305 North Garfield St., for First Methodist Episcopal Church. $157,740. Noted Mar. 5.

Ont., Collingwood — High School — Bd. Educ., 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation, general contract, to H. Thomas & Sons, Galt, $125,000; structural steel, to Hamilton Bridge Wks. Ltd., Waterfront, Hamilton; reinforcing steel, to H. C. Lefroy Eng. Co., Ryrie Bldg., Toronto. Archts. total est. $160,000. Noted Jan. 22.

Ont., Petrolia—High School—Bd. Educ., general contract 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation, to Anderson & Bath, Midland. Archts. total est. $150,000. Noted Feb. 12.

Federal Government Work

PROPOSED WORK

R. I., Melville—Chimney—Spec. 5107—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans radial brick chimney at Naval Fuel depot here.

Wash., Puget Sound—Shells—Spec. 5095—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans placing rein.-con. shells around existing shafts and bells, and replacing missing concrete of unsound portion of timber piles under bells.

BIDS DESIRED

N. Y., Governors Island (br. of New York)—Repairs to Sea Wall—Apr. 23, at office Constructing Quartermaster, Room 510, 39 Whitehall St., New York City, repairing sea wall, here; adv. E. N.-R. Apr. 9.

N. Y., New York—Repairs—Apr. 22, by Quartermaster, Ft. Wood, repairs to Statue of Liberty, Bedloes Island; adv. E. N.-R. Apr. 9.

Ky., Louisville—Metal Work—Apr. 29, by U. S. Engineer Office, P. O. Box 72, metal work for Navigable Pass, Dam 46, Ohio River; adv. E. N.-R. Apr. 9.

Ind., Newburg—Dam—May 7, by U. S. Engineer Office, P. O. Box 72, Louisville, Ky., constructing Dam 47, Ohio River, and abutment, here; adv. E. N.-R. Apr. 9.

Mich., Detroit—Dredging—Apr. 30, by U. S. Engineer Office, dredging ship channel, south end of Lake Huron; adv. E. N.-R. Apr. 9.

Mich., Detroit — Borings — Apr. 30, by U. S. Engineer Office, War Dept., Wash., D. C., borings in Galop, Massena, Long Sault Rapids and Barnhart Island Sections of St. Lawrence River, here.

Ill., Great Lakes—Bridge—Spec. 5065—Apr. 29, by Bureau Yards & Docks, Navy Dept., Wash., D. C., bridge here.

Minn., Duluth—Breakwater—May 4, by U. S. Engineer Office, removing stone filled timber superstructure and constructing and constructing concrete superstructure on east breakwater, at Agate Bay (Two Harbors); adv. E. N.-R. Apr. 9.

Tex., Galveston—Power Line—Spec. 5053—Apr. 29, by Bureau Yards & Docks, Navy Dept., Wash., D. C., electric power line, part overhead and part underground at Naval Radio Sta., here.

Nevada—Roads—Apr. 15, by C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., 9 Main St., San Francisco, Calif., grading and crushed gravel surfacing 5.75 mi. Grimes Sect. Austin-East Natl. Forest Highway, Lander Co.; grading 2 mi. and crushed gravel surfacing 19.46 mi. Austin-West Natl. Forest Highway, Lander Co.

Calif., Mare Island—Paving—Spec. 5092—Apr. 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., asphalt wearing surface on causeway connecting Mare Island and Vallejo.

H. T., Pearl Harbor—Paving—Spec. 5076—Apr. 29, by Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete pavement and runway here.

BIDS RECEIVED

La., Thibodaux—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here, from Deams & Groggin, Willamstown, Mass., $29,870. Noted Mar. 12.

O., Chillicothe—Drainage—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., drainage at U. S. Veterans Hospital, here, from Federal Constr. Co., 417 46th St., Newport News, Va., $11,581.

Wis., Milwaukee—Cement—U. S. Engineer Office, 12,000 bbl. Portland cement, from W. H. Pipkorn Co., 712 Park Ave., $2.265 per bbl. Noted Mar. 19.

Wis., Milwaukee—Gravel and Sand—U. S. Engineer Office, from Construction Materials Co., 133 West Washington St., Chicago, Ill., 10,000 tons gravel $1.70 per ton, and 5,000 tons sand $1.30. Noted Mar. 19.

Mo., Jefferson Barracks—Road Work—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., road work at U. S. Veterans

Federal Government Work (Continued)

Hospital, here, from F. C. Stolle, St. Louis, $9,500.

CONTRACTS AWARDED

R. I., Providence—Dredging—U. S. Engineer Office, dredging in Connecticut River below Hartford, to Hartford and New York Transportation Co., Pier 20, East River, New York City, $14,750.

Va., Norfolk—Alterations—Spec. 5074—Bureau Yards & Docks, Navy Dept., Wash., D. C. alterations to Building 36, here to H. M. Locas, 115 Bruce St., Portsmouth, $2,739 (60 days.)

Neb., Mitchell—Dam—Bureau Reclamation constructing Guernsey Dam, to Utah Constr. Co., Eccles Bldg., Ogden, Utah, $1,288,131. Noted Feb. 5.

FEDERAL POWER COMMISSION

Application for Licenses and Permits

Applications

584—Red River Lumber Co., 807 Hennepin Ave., Minneapolis, Minn.—Wants license for transmission line and supplementary telephone line extending from Hat Creek No. 1 power house of Pacific Coast Electric Co. to town of Westwood, 55.6 mi. long, in Lassen and Shasta Counties.

585—Missouri Hydro-Electric Power Co., Kansas City, Mo.—Wants preliminary permit for development in Current River, in Ripley, Carter and Shannon Counties, incl. three 60 x 75 ft. dams, 200 ft. high, one at Hargus Eddy, one at Bass Rock, and other at point 10 mi. below mouth of Jacks Fork.

587—Washington Water Power Co., 825 Trent St., Spokane, Wash.—Wants license for about 163.7 mi. transmission line in Grant, Lincoln, Douglas, Chelan and Okanogan Counties.

Unclassified

PROPOSED WORK

Subway—Boston, Mass.—Transit Dept., 1 Beacon St., plans subway under Huntington Ave. and Stuart St., from Massachusetts St. across Washington St. to Church Green. To exceed $25,000. T. F. Sullivan, chn.

Park and Monument—Dedham, Mass.—Bd. Selectmen plans Memorial World War Park and Monument. $114,500. Engineer not selected.

Playground—East Boston (Boston P. O.), **Mass.**—Park Dept., 33 Beacon St., Boston, plans improving Orient Heights Public Playground. $50,000. J. B. Shea, chn.

Lighting System—Roxbury (Boston P. O.) **Mass.**—Dept. Pub. Wks., Boston, plans "Great White Way" lighting system along Washington and Warren Sts., here. $25,000 or more. J. A. Rourke, comr.

Playground — South Boston (Boston P. O.), Mass.—Park Dept., 33 Beacon St., Boston, plans developing and constructing Castle Island into playground, and bituminous macadam paving and granolithic sidewalks on Boulevard leading to same from Shore Blvd. to Island Pier, here. $400,000. J. B. Shea, chn.

Grain Elevator—Buffalo, N. Y.—Standard Milling Co., 49 Wall St., New York City, plans rein.-con. grain elevator, Buffalo River and Hamburg St., here. $2,000,000.

Power Line—Alabama—Gulf Electric Co., subsidiary of Alabama Power Co., B-M Bldg., Birmingham, purchased Pea River Power Co., and plans extending power lines which run through Union Springs to Pensacola, Fla., Troy, and other Alabama towns. A. B. Foster, Troy, pres.

Transmission Line—Alabama—Alabama Power Co., B-M Bldg., Birmingham, plans 20 mi. high-power transmission line from Fulton Springs to Oneonta. $200,000.

Light Extensions — Nashville, Tenn. — Plans election $100,000 bonds for electric light extension to territory to be annexed. H. E. Howse, mayor.

Street Lighting System—Portage, Wis.—C. J. Loomis, city clk., soon takes bids ornamental street lighting system on various streets. $25,000. C. H. Shepherd, 38 South Dearborn St., Chicago, Ill., engr.

Transmission Line—Oklahoma—Town of Vici having surveys made for distribution system, and 28 mi. transmission line from Vici to Woodward. $30,000. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Amusement Park—Lankershim, Calif.—E. A. Wallace, Burbank and E. B. O'Donnell, Lankershim, plan concession buildings, dance pavilon, theatre, also steel observation tower, etc. $150,000 or more.

Park Improvements—Monterey, Calif.—Plans election $100,000 bonds to purchase site and lay out public park. H. D. Severance, city engr.

Land Development—Morro Bay, Calif.—C. E. Murphy, et al. 4409 South Main St., Los Angeles, plans developing approximately 1,000 acres, constructing hotel, golf course, artificial lakes, clubhouse, game preserves, street paving, etc., here. $250,000.

Street Lighting System—Oakland, Calif.—Plans ornamental street lighting system around Lake Merritt. $71,200.

Stadium—Palo Alto, Calif. — Stamford University, having plans prepared rein.-con. stadium addition. To exceed $150,000. Baker & Carpenter, Holbrook Bldg., San Francisco, engrs. Noted Jan. 22.

Street Lighting System—Redondo Beach, Calif.—City, W. J. Balaam, clk., plans approximately 300 c.i. standards on portions of Beryl, Diamond Sts., etc. To exceed $25,000.

Tunnel—San Francisco, Calif.—City and San Francisco Co. making plans pedestrain tunnel under Market St. at Powell St. To exceed $25,000. M. M. O'Shaughnessy, city engr.

Power Development—Victorville, Calif.—See "Excavation, Drainage, Irrigation, Levees."

Power Development — Carillon, Que. — E. N. Robert (promoter), 263 St. James St., Montreal, preparing plans hydro electric development, here. $50,000,000. J. A. Fleet, c/o owner, engr.

Gas Distribution System—Three Rivers, Que.—C. G. Hebert, (owner and engr.), Montreal, preparing plans gas distribution system, here. $150,000.

Electric Light System — Amherstburg, Ont.—Plans extending electric light and power system. $25,000.

Drilling — Newbury, Ont. — G. Willitt plans drilling oil and gas. $40,000.

Wharf—Pembroke, Ont.—See "Excavation, Drainage, Irrigation, Levees."

Transmission Line—Port Colborne, Ont.—Hydro Electric Power Comn., 190 University Ave., Toronto, plans 10 mi. transmission line from here westerly. Will probably build by day labor. F. A. Gaby, ch. engr.

Electric Light System—Toronto, Ont.—Plans improving and repairing electric light system in downtown section, c.i. standards, underground conduit, etc. $30,000. R. C. Harris, city engr.

BIDS DESIRED

Park—Lowell, Mass.—Apr. 15, by Park Commissioner, development of Shedd Park as public park and playground. $100,000. R. W. Beal, 62 Summer St., Boston, archt.

Athletic Field and Field House—Brooklyn, N. Y.—Apr. 14, by Br. Educ., 500 Park Ave., New York City, athletic field and field house, Pennsylvania Ave. in connection with Thomas Jefferson High School, here. W. H. Gompert, supt. school buildings, Flatbush Ave. Extension and Concord St., archt. and engrs.

Core Borings—Camden, N. J.—Apr. 20, by State Hy. Comn., Trenton, 1,840 lin.ft. casings to be sunk, and core borings, etc. on Bridge Approach Blvd. near Cooper River, here. A. L. Grover, secy.; adv. E. N.-R. Apr. 9.

Playhouse, etc.—Roselle (Ind. Br. Elizabeth), **N. J.** — Apr. 14, by Union Co. Park Comn., Warinanco Park, Elizabeth, childrens' playhouse, pergola, and wading pool in Warinanco Park, here. C. Poggi, 275 Morris Ave., Elizabeth, archt.

Fill—Phila., Pa.—Apr. 14, by G. W. Biles, dir. Dept. Pub. Wks., fill for stadium, east of Broad St. and south of Pattison Ave. Noted Apr. 2.

Street Lighting System—St. Paul, Minn.—Apr. 14, by H. W. Austin, city purch. agt., one hundred and eighty-four 13 ft. single light standards with copper and bronze lanterns, etc. on Portland Ave. between Snelling and Cleveland Aves., nineteen 13 ft. single light standards, etc., on Central Park Pl., E. and W. between Summitt and Central Aves.; fifty-five 15 ft. single light standards, etc., on 55th St. between St. Peter and 4th Sts. G. M. Shepard, city engr.

BIDS RECEIVED

Inspection Sheds—New York, N. Y.—Bd. Transportation, 49 Lafayette St., Apr. 2, constructing inspection shed in Westchester Ave. and 239th St. Yards, from D. C. Serber, 1123 Bway., $512,248. Noted Mar. 26.

Subway—New York, N. Y.—Bd. Transportation, 49 Lafayette St., Apr. 3, part of rapid transit railroad Sect. 1, Route 78, along and under Central Park West from 68th to 77th Sts., from J. F. Cogan Co., Grand Central Bldg., $4,190,000. Noted Mar. 26.

Culvert — Dorchester (Boston P. O.), **Mass.**—Metropolitan Dist. Comn. 1, Ashburton Pl., Boston, rein.-con. culvert at Pattens Cove, here, from Bay State Dredging & Contg. Co., 60 Condor St., East Boston, $40,225. Noted Mar. 19.

CONTRACTS AWARDED

Subway—Brooklyn, N. Y.—Bd. Transportation, 49 Lafayette St., New York City, laying track for portion of 4th Ave. subway line, here, to Slattery Eng. & Contg. Co., 10 East 43rd St., New York City, $31,391. Noted Apr. 2.

Grain Elevator—Buffalo, N. Y.—Washburn-Crosby Co., Ganson and Michigan Sts., grain elevator annex to flour mill, Ganson St., here, to Folwell-Ahlskog Co., 323 North Michigan Ave., Chicago, Ill., to exceed $1,000,000.

Station Finish—Long Island City, N. Y.—Bd. Transportation, 49 Lafayette St., New York City, station finish for Willets Point Blvd. Sta. on Rapid Transit R.R., here, to M. Del Balso, 660 East 221st St., New York City, $99,381. Noted Apr. 2.

Grandstand—Fredonia, Pa.—Chautauqua Co. Agriculture Assn., 1 story, rein.-con., 5,000 seating capacity, to Dresser-Minton-Scobell Co., The Arcade, Cleveland, O. Archts. est. $80,000.

Stadium — Columbus, Ga. — Concrete stadium, 10,000 seating capacity, to Columbus Constr. Co., Murrah Bldg., Columbus, $45,087.

Pavilion — Nashville, Tenn. — Tennessee State Fair Comn., L. Hickman, chn. Court House, 116 x 230 ft. live stock pavilion, rein.-con., at State Fair grounds, to Sumner Constr. Co., 155 4th Ave. N., Nashville, $150,000. Noted Mar. 26.

Foundation — Cleveland, O. — Cleveland Electric Illuminating Co., c/o J. Wolf, Illuminating Bldg., foundation for 4 story, 283 x 315 ft., rein.-con. and brick electric generating station, Avon Beach, to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg. Noted Dec. 25 under "Buildings—Industrial."

Grain Elevator — Council Bluffs, Ia. — Chicago, Rock Island & Pacific R.R. Co., LaSalle Sta., Chicago, Ill., will build rein.-con. grain elevator, 30th St. and 1st Ave., here, by day labor. $200,000. Private plans. Noted Mar. 12.

Guard Rail — South Dakota — State Hy. Comn., Pierre, (**F. A. P. means Federal Aid Project**) 1,488 ft. wood guard rail for F. A. P. 163 A, Lawrence Butte Co., and 3,984 ft. for F. A. P. 169 A, Pennington Co., to A. Olund, Detroit, Mich., $669 and $1,793 respectively; 4,408 ft. wire link guardrail for F. A. P. 160 Brook-Moody Co., to P. G. Thompson, Summit, $1,940, 3,472 ft. for F. A. P. 186 A, Davidson Co., and 4,472 ft. for F. A. P. 175, Hand Co., to Western Bridge Constr. Co., 748 Peters Trust Bldg., Omaha, Neb., $1,788 and $2,348 respectively. Noted Mar. 12.

Storage Tanks — Kansas City, Mo. — Washburn-Crosby Milling Co., 714 Bd. Trade Bldg., general contract 500,000-750,000 bu. rein.-con. storage tanks, to Jones-Hettelsater Constr. Co., 708 Mutual Bldg. Archts. est. $200,000.

Ornamental Street Lighting System — Colton, Calif. — Street lighting system on La Cadena Ave. and 8th St., to Reid & Co., Grant Bldg., Los Angeles, $34,577. Noted Feb. 5 and Mar. 5.

Tunnel and Transmission Line—Fresno, Calif.—See "Buildings—Industrial."

Ornamental Street Lighting System — Los Angeles, Calif.—Pressed steel standards on Santa Barbara Ave. between Main and Western Aves., to C. A. Rice, 1963 Santee St., $69,176. Noted Apr. 2.

Power Line — Fenwick, Ont. — Ontario Hydro Power Comn., A. Beck, chn., London, will build power line through northern part of Pelham Twp., by day labor under supervision of owners engineers. $35,000

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: April 15.

Road Materials

Newton, N. J.

Notice is hereby given that sealed bids will be received by the Board of Freeholders of the County of Sussex, for furnishing and applying as per specifications:

Item I 25,000 Gal. Grade N.A.[4]; O.A.[4]; X or U[3] bitumen.

Item II 25,000 Gal. Grade B. Tar or U.B. and for furnishing and delivering as per specifications.

Item III 2,000 Gal. Grade H.K.; K.P.; U.C.; or A.E.; Cold Patch.

Item IV 350 Tons Calcium Chloride Dust Layer.

Item V 700 Tons Slag Dustless Screenings.

Item VI 2,000 Tons of Trap Rock, Dolemite or Limestone, Dustless Screenings and open and read in public at the Freeholders Office, Newton, N. J. on April 15th 1925 at 11:30 A.M. Standard Time.

Specifications, forms of bid, contract and bond for the proposed work, prepared by Harvey Snook, County Engineer and approved by the State Highway Commission have been filed in the office of said Engineers at Newton, N. J. and will be furnished to prospective bidders on application.

Bids must be made on the standard proposal forms, must be enclosed in sealed envelopes, bearing name and address of bidder on the outside addressed to the Board of Chosen Freeholders, Newton, N. J. and for Items one and two must be accompanied by a certificate of a bonding company and a certified check for ten per cent of the amount bid. For items 3-4-5-6 no certificate or certified check will be required and be delivered at the place and on the hour above named.

The Board reserves the right to reject any or all bids.

BY ORDER OF THE BOARD OF CHOSEN FREEHOLDERS OF THE COUNTY OF SUSSEX

(Signed) NORMAN B. ANDERSON,
Clerk.

Bids: April 22

Road Oil

STATE OF RHODE ISLAND
STATE BOARD OF PUBLIC ROADS
Providence, R. I.

Sealed proposals for the furnishing and applying of 250,000 gallons of Asphaltic oil or refined tar to certain sections of Rhode Island State roads will be received by the State Board of Public Roads at its office State House, Providence, R. I., until 12 o'clock noon (Eastern Standard Time) on Wednesday April 22, 1925, at which time they will be opened and read in public:

Bids must be made upon blank forms furnished by the Board.

No bids will be received unless accompanied by a certified check for the sum of $200,000, payable to the State of Rhode Island.

The Board reserves the right to reject any and all bids and to give preference to towns or cities in accordance with section 5 of chapter 97 of the General Laws.

Specifications may be obtained at the office of the State Board of Public Roads, State House, Providence, R. I., on and after Wednesday April 8, 1925, every week day (except holidays and Saturdays) between the hours of 9 A.M. and 5 P.M., Saturdays 9 A.M. to 12 M.

State Board of Public Roads
ABRAM L. ATWOOD
BENJAMIN F. ROBINSON
FRANK COLE
JOHN W. HANLEY
F. A. H. BODINGTON

OFFICIAL PROPOSALS

Bids: April 22

Road Reconstruction

STATE OF RHODE ISLAND
STATE BOARD OF PUBLIC ROADS
Providence, R. I.

Sealed proposals for the reconstruction under the provisions of the Federal Aid Road Act, of the following section of State highway will be received by the State Board of Public Roads at its office, State House, Providence, R. I., until 12 o'clock noon, Eastern Standard Time, on Wednesday, April 22, 1925, at which time they will be opened and read in public:

Contract No. 2504, Federal Aid Project No. 26, West Greenwich, Nooseneck Hill Road.

Beginning at Big River Bridge on the Nooseneck Hill Road and extending southerly on said road for 1.72 miles approximately, to Nooseneck Bridge, so-called.

1.72 miles Reinforced Cement Concrete Pavement 7 in. thick, 18 ft. wide.

Bids on the above contract must be made on blank forms to be furnished by the Board. No bids will be accepted unless accompanied by a certified check for the sum of $200 payable to the State of Rhode Island.

The Board reserves the right to reject any or all bids and to give preference to towns or cities in accordance with section 5 of chapter 97 of the General Laws of Rhode Island, Revision of 1923.

Plans may be examined and specifications and bidding blanks may be obtained at the office of the State Board of Public Roads, Room 10, State House, Providence, R. I., on and after Wednesday, April 8, 1925, every week day (except Saturdays and Holidays) between the hours of 9 A.M. and 5 P.M. and on Saturdays 9 A.M. and 12 M.

State Board of Public Roads
ABRAM L. ATWOOD
BENJAMIN F. ROBINSON
FRANK COLE
JOHN W. HANLEY
F. A. H. BODINGTON.

Bids: April 30.

Impounding Reservoir

Ashland, Pa.

Sealed proposals for the construction of a dam for water supply for the Borough of Ashland, Schuylkill County, Pa., will be received by A. B. Schadel, Secretary of the Council, until 12 o'clock noon, Thursday, April 30th, 1925, at which time they will be publicly opened and read.

The work consists of the construction of an earth fill dam with concrete core wall, 400 ft. long and 70 ft. high; an intake well and valve house; a diversion channel approximately 3,000 ft. long, and other necessary appurtenances. This dam will be built on a branch of Little Mahonoy Creek about five miles east of the Borough of Ashland and one mile west of Frackville.

The Borough reserves the right to reject any or all bids.

Copies of plans, specifications and proposal blanks may be obtained from Gannett, Seelye & Fleming, Engrs., Inc., No. 1 North Market Square, Harrisburg, Pa., upon receipt of check for $5.00.

WM. F. DETTMAN
CHAS. F. GOYNE
JOS. C. BRECKER
Water Committee, Borough of Ashland, Pa.
A. B. SCHADEL,
Secretary.

DR. J. L. HOFFMAN,
President of Council, Borough of Ashland, Pa.

GANNETT, SEELYE & FLEMING,
Engrs. Inc.
No. 1 North Market Square,
Harrisburg, Penna.

OFFICIAL PROPOSALS

Bids: April 17.

Reinforced Concrete Suction Well

Fulton, N. Y.

Sealed proposals will be received by the Common Council of the City of Fulton, until 8 p. m. April 17, 1925 for the construction of a 50 feet diameter reinforced concrete suction well adjoining the present water works pumping station.

Specifications, form of proposal, bond and contract may be obtained at the office of the Commissioner of Public Works, Fulton, N. Y. and at the office of Hazen & Whipple, consulting Engineers, 25 West 43rd St., New York City.

Each proposal must be accompanied by a certified check made payable to the order of the City of Fulton for five per cent of the amount of the bid.

The successful bidder will be required to furnish a bond in the sum of fifty per cent of the amount of the contract price.

The Common Council reserves the right to reject any and all bids.

H. S. ANDREWS,
Commissioner of Public Wks.

Bids: April 20

Redredging

Newark, N. J.

Sealed proposals will be received from 3:00 to 3:15 P.M., on Monday, April 20th, 1925, at the office of the Director of the Department of Public Works on the second floor of the City Hall, and then publicly opened and read for:

The redredging of a section of the City of Newark Channel from the United States Government Pierhead Line to a point approximately 500 feet west of Avenue R at Port Newark Terminal.

Bids must be made upon blanks to be furnished by the Department.

Plans and specifications and proposal blanks may be obtained at the office of the Bureau of Docks, Room 205, City Hall.

Terms of proposal and surety required are fixed by the specifications.

The contract will be awarded to the lowest responsible bidder, the right being reserved to reject any and all bids, or waive informalities therein, and to award the contract for the whole or any part thereof.

By direction of the Board of Commissioners of the City of Newark.

THOMAS L. RAYMOND,
Director, Department of Public Works.

Bids: April 15.

Furnishing Cast Iron Pipe

WASHINGTON SUBURBAN SANITARY CONTRACTS
DISTRICT 48-W, 49-W & 50-W
Washington, D. C.

Sealed proposals for the contracts named below will be received at the office of the Washington Suburban Sanitary Commission, Evans Building, New York Ave., Washington, D. C., until 3 P.M., Wednesday, April 15, 1925, at which time and place they will be publicly opened and read.

Contract 48-W, Furnishing 50,000', 6" to 16" C. I. pipe.

Contract 49-W, Furnishing 1,000' of 20" and 4,000' of 24" C. I. pipe.

Contract 50-W, Furnishing 150 Tons special fittings.

Specifications obtainable from Robert B. Morse, Chief Engineer of District, Hyattsville, Md.

T. HOWARD DUCKETT,
EMORY H. BOGLEY,
J. BOND SMITH,
Commissioners.

CONSTRUCTION NEWS

Engineering News-Record, April 16, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Roads, Toronto, Ontario, Dept. Provincial Highways plans expending $5,000,000 on maintenance and construction.

Highway and bridge, Augusta, Maine, State Highway Dept. voted $3,000,000 bonds for highway and railroad bridge across Kennebec River.

Office, Detroit, Mich., Book Estate having plans prepared, $3,000,000.

Water works improvement, Knoxville, Tenn., plans water works improvement, $2,500,000.

Temple, New Orleans, La., Masonic Association plans temple, $2,250,000.

Hotel, office and theatre, Chicago, Ill., L.O.O.M. plans building, $2,000,000.

Apartment, Dallas, Tex., E. E. Parkhurst having plans prepared, $1,250,000.

Hard surfacing roads, Union City, Tenn., Obion Co. plans to vote bonds, $1,000,000.

Hospital, Los Angeles, Calif., Good Samaritan Hospital having preliminary plans prepared, $1,000,000.

Theatre and office, San Antonio, Tex., W. J. Lytle having plans prepared, $1,000,000.

Water works, Okmulgee, Okla., plans election $1,000,000 bonds for water works, including dam or reservoir.

Hotel and stores, Baltimore, Md., I. Silberstein having preliminary plans prepared, $1,000,000.

Bid Received On Large Job

High School, Cleveland Heights, O., Bd. of Educ. received from Schirmer-O'Hara of Cleveland, $1,035,252.

Large Contracts Let During Week

Power Plant, New Braunfels, Tex., Comal Power Co. to U. G. I. Contg. Co., $3,000,000.

Sub-station, Trenton, N. J., Pub. Service Corporation—work done by separate contract, $2,000,000.

Club, Boston, Mass., University Club to W. A. and H. A. Root, $1,750,000.

Hotel, Del Monte, Calif., Del Monte Properties Co. to Lindgren-Swinerton, Inc., $1,500,000.

Office, Toronto, Ont., to Jackson Lewis Constr. Co., $1,500,000.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Lawrence—Morris Knowles, Inc., Westinghouse Bldg., Pittsburgh, Pa., engrs., take bids in May, for ¾ acre covered slow sand filter, here, for City. Bids for additional boiler and pumping equipment will be received in spring or summer. Noted Mar. 26.

Mass., Saugus—Town appropriated $25,000, extending mains in various streets. Bd. Selectmen, Saugus, engrs.

N. J., Trenton—Bd. Aldermen plans to purchase motors, pumps, transformers, etc., for pumping station. $45,000. J. Kelly, pres. Engineer not selected.

Fla., West Palm Beach — West Palm Beach Water Co., plans 9 m.g. coagulation basin, electric operated dredge, 8 m.g. steam turbine pump and 200 hp. new steam boiler. $500,000. R. E. Dougherty, supt.

Tenn., Knoxville—Making plans waterworks improvements. $2,500,000 bonds voted. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., consult. and designing engrs. Noted Jan. 8.

Tenn., Trezevant—Plans election $20,000 bonds for waterworks improvements.

O., Cincinnati—Hamilton Co. plans 22,494 ft. 6 and 8 in. c.i. mains in Water Supply Line 11, Dists. 4 and 5 (Mudd Creek, Anderson, Ferry and Foley Rds.). $51,446. L. C. Boyatt, Court House, engr.

Ia., Sioux City—Plans 300,000 gal. steel tank on tower for water storage in Morningside. $19,500. L. N. Hintgen, city engr.

Neb., Bridgeport — Making preliminary plans water mains and distribution system, also sanitary sewers in various streets.

Ark., Siloam Springs — Plans extending mains in about 25 blocks various streets.

Okla., Altus—Making preliminary plans addition to waterworks, incl. diversion dam on Bitter Creek and pumping station on Red River. $30,000. M. M. Oates, Altus, engr.

Okla., Collinsville — Defeated $125,000 bonds for waterworks extensions and improvements. Noted Apr. 2.

Okla., Eufaula — Making preliminary plans new 500,000 gal. filtration plant and equipment. $20,000. L. D. Matter, Henryetta, engr.

Okla., Henryetta — Making preliminary plans two new units to filtration plant, additions to pumping equipment and storage supply. $40,000. Engineer not selected.

Okla., Holdenville—Voted $128,000 bonds, new reservoir, pumps, motors, mains, valves and hydrants. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 9.

Okla., Morrison—Soon takes bids about 5 mi. 4- to 8-in. mains, 40,000 gal. tank on 75 ft. tower, pumping equipment, etc. H. G. Olmsted & Co., Oklahoma Bldg., Oklahoma City, engrs.

Okla., Newkirk — Voted $115,000 bonds for 27,000 ft. 10 in. c.i. pipe line, new well, motor driven pumps, transmission line, etc. F. B. King, Grain Exch. Bldg., Oklahoma City, engr. Noted Mar. 19.

Okla., Okmulgee—Plans election soon $1,000,000 bonds for waterworks, incl. dam or reservoir, etc. W. E. Carpenter, city comr. Noted Jan. 22.

Okla., Porter—Making preliminary plans 3,400 ft. 4- to 8-in. c.i. main extensions, etc. $20,000. T. P. Clonts, 2110 Garland St., Muskogee, engr.

Okla., Spiro—Making preliminary plans new waterworks, incl. 4 deep wells, pumps, motors and new reservoir. $20,000. Engineer not announced.

Ariz., Phoenix—Salt River Valley Water Assn. voted $450,000 bonds 20 additional wells and pumping facilities on Salt River Project. C. C. Cragin, Phoenix, engr. Noted Mar. 26.

Wash., Aberdeen—Voted $700,000 bonds pipe line from Wishkah River water supply to canyon of Wynooche River to extend city's present water system.

Calif., Wasco — Plans election bonds to exceed $25,000, for water system.

Ont., Forest—Plans 25,000 ft. 6- to 12-in. c.i. mains in various streets, pumps, pumphouse, hydrants, etc. $90,000. J. Bell & Son, Court House, St. Thomas, engrs. Noted Mar. 26.

BIDS DESIRED

Massachusetts—Apr. 23, by Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, 7,380 lin.ft. 56 in. Hammerweld or lock bar steel pipe, or 60 in. riveted steel pipe together with necessary appurtenances and connections in Arlington and Somerville. $70,000 bonds. J. R. Rablin, comr.

Mass., Boston—Apr. 15, by Dept. Pub. Wks., laying and relaying mains in Alpheua Rd., Harrison and Weeks Aves., Bates, Beech, Jeffers and Mansfield Sts. $15,000. J. A. Rourke, comr.

N. Y., New York — Apr. 20 by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in 107th, 120th, 218th, 242nd, 243rd and 244th Sts., Snell, 32nd, 43rd and 44th Aves.

N. J., Westwood—See "Streets & Roads."

Pa., Ashland—Apr. 30, by A. B. Schadel, secy. Council, earth fill dam, on branch of Little Mahonoy Creek. Gannett, Seelye & Fleming, Engineers, Inc., 1 North Market Sq., Harrisburg, engrs.; adv. E. N.-R. Apr. 16.

N. C., High Point — May 7 (extended date) by J. W. Hedrick, mayor, and City Council, waterworks improvements. W. C. Olsen, Raleigh, consult. engr.; adv. E. N.-R. Apr. 16. Noted Apr. 9.

Ala., Selma — Morris Knowles & Co., engrs., Westinghouse Bldg., Pittsburgh, Pa., taking bids filtration plant, here, for City. $65,000.

Ky., Olive Hill—Apr. 20, by City Council, waterworks and sewerage system. Gillig & Churchill, Lexington, Ky., engrs.

O., Cleveland—Apr. 22, by Comrs. Cuyahoga Co., 8,500 ft. 6 and 8 in. c.i. mains in Highland Park subdivision. To exceed $25,000. F. R. Williams, Court House, engr.

O., Painesville—Apr. 23, new 35 x 80 ft. pump room, 35 x 35 ft. filter building addition, three 20 x 24 ft. concrete basins, 12 ft. deep, gravity sand filters, connections and piping. Hadlow, Hick & Co., Finance Bldg., Cleveland, engrs. Noted Dec. 25.

Mich., Detroit—Apr. 28, by Bd. Water Comrs., 176 East Jefferson Ave., test borings on Belle Isle, in American channel of Detroit River, within Waterworks Park, along Pennsylvania, Forest, Grand River and Warren Aves., etc. G. H. Kenkell, ch. engr.; adv. E. N.-R. Apr. 16.

Ill., Carbondale—Apr. 20, by City Clerk, pumping equipment, tank on tower, filtration plant, mains, etc. $375,000. P. B. Wilson, Marion, engr.

Ill., Chicago—Apr. 22, by Comrs. Pub. Wks., City Hall, one 36 in. Butterfly check valve and one 36 in. electrically operated gate valve for Central Park pumping station, and one of each of above for Springfield Ave. pumping station; also two hundred 3 in., one hundred 4 in., two hundred 6 in., five hundred 8 in., and one hundred and fifty 12 in. Standard gate valves. J. Ericson, City engr.

Wis., Manitowoc—City taking bids approximately 10,000 ft. 4- to 10-in. c.i. water pipe. A. H. Zander, city clk.

Wis., Whitefish (Milwaukee P. O.)—Apr. 20, by W. Volkmann, village clk., 5,000 ft. 6 and 8 in. c.i. mains in various streets. $15,000. T. F. Buckley, Village Hall, clk.

Minn., Stillwater—May 4, by Bd. Water Comrs., steel standpipe and rein.-con. $30,000. J. A. D. Abercrombie, city engr. Noted Mar. 26.

Minn., Waseca—May 5, by Water & Light Bd., H. E. Isker, mgr., drilling about 770 ft. well, constructing wellhouse and deep well pump and connect piping with water mains, etc. Toltz, King & Day, Builders Exch., engrs.

Tex., Paris—City Clerk and W. J. Hicks, city engr. taking bids 750,000 gal. capacity filter bed. $50,000.

Tex., Wichita Falls—W. M. Priddy, Oil Exch. Bldg., taking bids waterworks improvements, mains, pumping equipment in Westmoreland Park Addition. $35,000.

Waterworks (Continued)

Montgomery & Ward, 1016 City Natl. Bank Bldg., engrs.

Okla., Wewoka—Taking bids waterworks and sewer improvements, incl. mains, wells, new pumping equipment, disposal plant, etc. $200,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 5.

Calif., Los Angeles—Apr. 27, by Bd. Pub. Wks., 1 triplex pump and motor. H. A. Van Norman, City Hall, engr.

Que., St. Lambert — City in market for complete mechanical gravity filter plant.

BIDS RECEIVED

Mass., Boston—Supply Dept., F. P. Rock, supt., Apr. 2, twelve 36 in. gate valves, from Atlantic Wks., 80 Border St., East Boston, $1,690; 1,200 tons 48 in. c.i. pipe, from B. Micoll & Co., Inc., 294 Madison Ave., New York City, $51 per ton, all for Pub. Wks. Dept., Water Serv. Noted Mar. 26.

N. J., Trenton — City Comn. City Hall, Apr. 3, from Natl. Water Equipment Co., 50 Church St., New York City, 1,500 ft. ¾ in. curb stops $0.95; from G. and H. Supply Co., Brunswick and Southard Sts., 2,000 ¾ in. corporations $2.11, 25 service boxes $2.88; from Mueller Co., Inc., 145 West 30th St., New York City, 100 ft. 1 in. curb stops $1.30; from S. E. T. Valve Co., 50 Church St., New York City, one thousand ¾ and 1 in. service boxes $1.30; from R. D. Wood Co., 400 Chestnut St., Phila., Pa., 50 tons c.i. pipe $53.30; and from U. S. Cast Iron Pipe & Fdry. Co., Morris Bldg., Phila., Pa. 50 tons c.i. pipe $53.30, 225 tons c.i. pipe $51.30. Noted Mar. 26.

O., Cincinnati—Director Pub. Serv., relining west basin of Eden Park Reservoir with 300,000 sq.ft. concrete gunite, from W. S. Rae, Oliver Bldg., Pittsburgh, Pa., $142,850. Engrs. est. $175,000. Noted Mar. 26.

Calif., Monrovia—Buena Vista Domestic Water Co., c/o W. E. Bushnell, secy., 19,740 ft. 4- to 8-in. riveted steel pipe and fittings in various streets, from Lacy Mfg. Co., Washington Bldg., Los Angeles, 14 gauge pipe at $11,131 and 16 gauge pipe $9,588. Noted Apr. 2.

Calif., South Pasadena — City Trustees, Mar. 28, repairing Garfield Ave. reservoir, approximately 1,100 cu.yd. rein.-con. wall, remove portion of present roof, Gunite flooring, etc., from J. A. Alexander, 1721 East 20th St., Los Angeles, $49,500. Engrs. est. $45,000.

CONTRACTS AWARDED

Mass., Bridgewater—Bd. Water Comrs., standpipe, to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $28,000. Noted Apr. 9.

O., Cincinnati—Director Pub. Serv., 750 ft. 36 in. c.i. pipe for Eden Park Reservoir, to U. S. Cast Iron Pipe & Fdry. Co., Addyston, $10,334. Engrs. est. $10,000. Noted Apr. 9.

O., Cincinnati — Hamilton Co., 3,650 ft. 16 in. c.i. mains in Water Supply Line 7, Dist. 1 (Silverton), Contr. 2, and 10,000 ft. 8 in. c.i. mains in Water Supply Line 8, Dist. 2 (White Oaks) Contr. 1, to J. Dempsey, 2314 Kenton St., $20,570 and $24,173 respectively, engrs. est. $22,600 and $28,495 respectively; 7,838 ft. 6 and 8 in. c.i. mains in Water Supply Line 9, Dist. 1 (Montgomery Rd.) to W. Hennigan, 7011 Montgomery Rd., Norwood, $15,937 engrs. est. $18,837. Noted Apr. 9.

Ill., Shelbyville—City, 100,000 gal. tank on tower, one 700 g.p.m. and one 500 g.p.m. motor driven centrifugal pump, foundation for pumping equipment, 4,200 ft. electric transmission line, etc., to Merkel Contg. Co., 100 Davidson Bldg., Kansas City, Mo., $120,000 which includes purchase of private plant, and also $6,600 cash refund to city leaving net price $113,400 for plant and new work. Above work to be paid for in water certificates. Noted Mar. 10.

Wis., Madison—City, c/o L. L. Smith, supt., extending main feeder for new proposed reservoir, etc., to O'Dea & Schafer, 1019 Oregon St., $25,789. Engrs. est. $32,707. Noted Mar. 5.

Minn., Minneapolis — F. S. Gram, city purch. agt., 1,040,000 common brick, to Minneapolis Sand Lime Brick Co., 3400 Main St. N. E., $11 per M; 497,915 exterior face brick, to Twin City Brick Co., 816 First Natl.-Soo Line Bldg.; 15,000 firebrick, to Landers-Morrison-Christenson Co., 800 Builders Exch. Bldg., $32.175 per M; 294,593 interior face brick, to Belt Line Brick Co., 1200 Builders Exch. Bldg. Noted Mar. 26 under "Material and Equipment."

Minn., Minneapolis — F. S. Gram, city purch. agt., 2 Venturi meters for Water Dept., to Builders Iron Fdry. Co., 9 Coddington St., Providence, R. I., $1,677. Noted Mar. 19.

Kan., Anthony—For 500 kw. turbine generating unit, to General Electric Co., Dwight Bldg., Kansas City, Mo., $16,290; and surface condenser, to Worthington Pump & Mchy. Corp., 825 Scarritt Bldg., Kansas City, Mo., $5,122.

Wash., Tacoma—Light & Water Dept., 5,303 lin.ft. 60 and 66 in. steel pipe, to Willamette Steel Pipe Co., Portland, $63,849.

Ont., Toronto—To Natl. Iron Corp., foot Cherry St., ninety-one 12 ft. lengths 20 in. c.i. pipe $57.75 per length, 20 in. c.i. ¼ bends $41.25, and 20 in. 1/16 bends $37.50; to W. G. Armstrong, Whitworth & Co. Ltd., Newcastle-on-Tyne, England, one 10 m.g. 3 stage high pressure centrifugal pump $55,967, and one 10 m.g. 3 stage centrifugal low pressure pump $18,312; to Turbine Equipment Co., Ltd., 73 King St. W., one 400 hp. steam turbine $16,500; to Lamoreux-Kelly Co., Ltd., Montreal, Que., one 8 ton steam road roller $3,950; to J. Inglis Co. Ltd., Strachan Ave., 3 m.g. sewage sludge pump with motor $8,770.

Sewers

PROPOSED WORK

Conn., Waterbury—Plans to issue $100,000 bonds for storm water drainage, and $650,000 bonds for sewerage system expansion. R. A. Cairns, city engr.

O., Columbus—See "Streets and Roads."

Mich., Detroit — Made plans vitr. crock sewers 1,568 ft. 12- to 20-in. Lateral 4325; 14,151 ft. 12- to 24-in. and 119 ft. 30 in. 2 ring brick section Lateral 4326; 2,749 ft. 12- to 18-in. Lateral 4329; 3,582 ft. 12- to 18-in. Lateral 4332; 2,322 ft. 12- to 15-in. Lateral 4336; 349 ft. 12- to 15-in. Lateral 4337; 5,230 ft. 12- to 24-in. Lateral 4340; 465 ft. 12 in. Lateral 4343; 483 ft. 12- to 15-in. Lateral 4346. G. Jerome, city engr.

Mich., Royal Oak—Made plans sewer in Lateral Sanitary Dist. 48, 7,331 ft. 8 in. vitr. pipe, and House Connection Sect. 1, 6,220 ft. 6 in. vitr. pipe. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Neb., Bridegport—See "Waterworks."

Ark., Hot Springs—City and U. S. Interior Dept., Wash., D. C., making preliminary plans sanitary trunk sewer in U. S. Reservation and vicinity. $50,000. C. Smith, city engr.

Ark., Lepanto—Making preliminary plans sanitary sewerage system and disposal plant. $60,000-$80,000. T. H. Allen, 1430 Bank of Commerce & Trust Bldg., Memphis, Tenn., engr.

Ark., Parkin—Soon takes bids 24,382 ft. 6- to 12-in. vitr. clay sewers, etc., in various streets. $28,000. T. H. Allen, 1430 Bank of Commerce Bldg., Memphis, Tenn., engr.

Tex., Liberty—Making preliminary plans sewers in various streets. $60,000 bond election soon. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Rockwell—Election Apr. 28, $37,500 bonds complete sewerage system. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs.

Okla., Holdenville—Voted $93,000 bonds for 3 mi. outfall sewers and 2 sewage disposal plants, 7,000 ft. 15 in. and 8,000 ft. 12 in. vitr. clay pipe, etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 9.

Okla., Porum—Making preliminary plans 10,600 ft. 6- to 10-in. vitr. clay sewers etc., in Main, Haskel and Cherokee Sts., septic. $25,000. Engineer not announced.

Okla., Spiro—Making preliminary plans 4 mi. outfall sewers, disposal plant, septic tank, etc. $25,000. Engineer not announced.

Calif., Dunsmuir—Plans election $200,000 or more bonds, sewerage system. C. C. Kennedy, Call Bldg., San Francisco, engr.

Calif., Oceanside—Plans election approximately $150,000 bonds, for sanitary sewer in Topeka St. territory.

Calif., San Francisco — City and San Francisco Co. plans sewers in 6th St. $75,000. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — City and San Francisco Co., making plans for sewers in College Hill, $300,000, Fillmore and McAllister Sts., $650,000; Sunset Dist. (westerly) sewer, $400,000; and Sunset Dist. (central) sewer, $115,000. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — City and San Francisco Co. made plans sewers in Canal St. $15,000, 3rd St. $100,000, Ingleside $6,000; and extending sewers in various streets, $50,000, Guttenburg St. $11,000. M. M. O'Shaughnessy, City Hall, engr.

Ont., Crystal Beach — Plans 10,000 ft. vitr. tile sewers in various streets. $30,000. E. H. Darling, 47 Home Bank Bldg., Hamilton, engr.

Ont., Toronto—East York Twp., Sampson Ave. Municipal Yard, plans 6,000 ft. concrete and vitr. clay sanitary sewers 12 in. up in Poullon Ave. $9,889, and Gowan Ave. $26,400. G. R. Jack, twp. engr.

Ont., Toronto—York Twp. making plans 9,000 ft. 21- to 33-in. sanitary and storm sewers in Oakwood Ave. to Arlington Ave. $36,000. James, Proctor & Redfern, 26 Toronto St., Toronto, engrs.

BIDS DESIRED

Mass., Boston — Apr. 17, by Dept. Pub. Wks., sewers in Ipswich St., in Roxbury; Apr. 21, in Church St., Pierpont and Burwell Rds., in West Roxbury. $25,000. J. A. Rourke, comr.

Mass., Boston — Apr. 23, by Dept. Pub. Wks., sewers in Cambridge and Court Sts. $50,000 bonds. J. A. Rourke, comr.

Mass., Needham—Apr. 17, at office Town Clerk, Town Hall, sewers in Sects. 1 and 2. $25,000. Barbour & Dixon, Tremont Bldg., Boston, engrs.

Conn., Norwalk—Apr. 30, at office of City Engineer, vitr. sewers in Connecticut and Taylor Aves. T. R. Robins, mayor; adv. E. N.-R. Apr. 16.

Conn., Wallingford—Apr. 30, by J. P. Bridgett, warden, and Court of Burgesses, Boro Office, tile sewers, concrete grit chambers, Imhoff tanks and sludge beds. W. A. MacKenzie, boro engr.; adv. E. N.-R. Apr. 16.

N. Y., Brooklyn—Apr. 22, by J. A. Guider, boro pres., Boro Hall, sewers in Ave. I, Elmwood Ave., East 8th, 5th and Maple Sts.

Mass., Boston — Apr. 16, by Pub. Wks. Dept., Sewers in various streets in Hyde Park and Dorchester; Apr. 17, in Roxbury; and Apr. 21, in West Roxbury. $25,000. J. A. Rourke, comr.

N. Y., Sloan—Apr. 25, by Bd. Trustees, sewers in various streets. To exceed $65,000. G. Diehl, Ellicott Sq., Buffalo, engr.

N. J., Westwood — See "Streets and Roads."

Ky., Louisville — May 8, by Comrs. of Sewerage, M. H. Crawford, chn., Board Trade Bldg., 3rd and Main Sts., constructing 38th St.-Duncan St. Dist. Sewer. J. B. F. Breed, ch. engr.; adv. E. N.-R. Apr. 16.

Ky., Olive Hill — See "Streets and Roads."

O., Leetonia—Apr. 30, by L. E. Fisher, village clk., sewage disposal plant; adv. E. N.-R. Apr. 16.

Ill., Alton—Apr. 18, by Dept. Pub. Wks., connections, laterals, manholes and 1,120 ft. 10 in. vitr. clay sewer in Hunter Court. $26,000. J. E. Schwaab, city engr. Noted Feb. 26 under "Streets and Roads."

Ill., Morris — Apr. 30, by City Clerk, sewers in 4th Ward. $26,000. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs. Noted Mar. 26.

Ill., Springfield—May 15, by Bd. Trustees Springfield Sanitary Dist., City Hall, sanitary and intercepting sewers in Divs. A, B, C and D, here, and Sangamon Co. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.; adv. E. N.-R. Apr. 16.

Wis., Oshkosh — Apr. 23, by Bd. Pub. Wks., storm and sanitary sewers in 10 streets. To exceed $25,000. G. Randall, City Hall, engr.

Minn., Bloomington (Minneapolis P. O.) —Apr. 20, by Rose & Harris, engrs., Natl. Life Bldg., Minneapolis, 2,360 ft. 15- to 21-in. sewers, etc., for Minnesota Masonic Home. $25,000.

Tex., Wichita Falls—W. M. Priddy, Oil Exch. Bldg., taking bids sewers, mains, etc., in Westmoreland Park Addition. $35,000. Montgomery & Ward, 1016 City Natl. Bank Bldg., engrs.

Okla., Wewoka—See "Waterworks."

Calif., Glendale—City Clerk taking new bids intercepting outfall sewerage system, Sects. 4 to 12 (inclusive), 91,528 ft. 8- to 24-in. vitr. or concrete pipe, etc. Burns-McDonnell-Smith Eng. Co., 415 Marsh-Strong Bldg., Los Angeles, engrs. Noted Mar. 26.

Calif., San Francisco—See "Streets and Roads."

BIDS RECEIVED

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, Apr. 8, (**e. e. means engrs. est.**) from Nazzarro & Guerriero, Inc., West 9th St., sewer in Linden Ave. 81.81% e. e. $69,936, East 29th St. 70.61% e. e. $2,406, Ave. L 70% e. e. $2,224; from Tomassetti & Co., Inc., 1133 60th St. Belmont Ave. 72.72% e. e. $40,252; from C. Vacharas, 645 40th St., 6th St. 93.75% e. e. $6,871; from A. W. Matarazo, 71st St. 69.75% e. e.

Sewers (Continued)

$3,741, 7th Ave. 72.5% e. e. $1,438. Noted Apr. 2.

N. J., Trenton—Bd. City Comrs., Apr. 10, sewage disposal plant, from J. P. White Co., Washington Pl., Passaic, $992,683. Noted Mar. 26.

Wis., Milwaukee—Dept. Pub. Wks., from H. O. Schaefer, 1149 East Mason St., Green Bay, sewers in Ellen St., 695 ft. 8- to 15-in. combined pipe $1,551, Highland Ave., 1,008 ft. 12 in. pipe $1,768, Wyoming Pl., 825 ft. 12 in. pipe $1,486, 10th Ave., 2,498 ft. 8 in. vitr. and 2,698 ft. 12- to 24-in. rein.-con. pipe $1,630, 36th St., 380 ft. 12 in. storm and 361 ft. 8 in. sanitary $1,607, Sycamore St., 1,050 ft. 8 in. storm and 1,044 ft. 12 and 15 in. sanitary, $3,826; from W. T. Werner, 675 Hi-Mount Blvd., Oklahoma Ave., 1,380 ft. 8- to 12-in. sanitary, 960 ft. 12 in. storm and 402 ft. 27 in. rein.-con. pipe, $6,886; from Wenzel & Henoch Co., 498 27th St., Clybourn St., 1142 ft. 8 in. sanitary, 544 ft. 12 and 18 in. storm, 864 ft. 24- to 36-in. rein.-con. storm pipe $9,939, Richards St., 2,863 ft. 54 and 60 in. monolithic sewer tunnel, etc. $92,-272; from J. Brogan & Sons, 700 Dousman St., Green Bay, Cedar St., 219 ft. 12 in. combined pipe $1,489, 38th St., 397 ft. 8 in. each storm and sanitary sewers, $2,189; from G. E. Zimmermann, 3402 Grand Ave., Keefe Ave., 2,130 ft. 30- to 42-in. rein.-con. storm, etc., $53,126; from F. E. Kaminski, 745 46th Ave., West Allis, American Ave., 4,060 ft. 8- to 21-in. vitr. pipe, $8,665; from F. Doherty Co., 37th St. and Fond du Lac Ave., Auer Ave., 4,165 ft. 42- to 84-in. monolithic concrete sewer tunnel, 163 ft. 18- to 36-in. concrete pipe, etc., $179,174.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., Apr. 3, from U. S. Cast Iron & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., 83 tons 6, 8 and 12 in. water pipe for Jones Island at $48.60 per ton, and fittings for same $499.40 per ton.

Minn., St. Paul — H. W. Austin, city purch. agt., Mar. 31, Belt Line, Phalen and Hazel Park sewerage system, Contr. B, Margaret-Minnehaha Branch, from Thornton Bros., 318 Endicott Bldg., $347,000. Noted Mar. 26.

Calif., San Diego — A. H. Wright, city clk., Mar. 30, 18,155 ft. 6 and 8 in. concrete sewers in South La Jolla St., from J. N. Chandler, 4067 Van Dyke St., $27,417. Noted Mar. 19.

CONTRACTS AWARDED

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Riverdale Ave., etc., to M. Del Balso, 660 East 221st St., $6,610; Mace Ave., etc., to A. Musmeci, 277 East 146th St. $1,888; Seymour Ave., etc., to Slack & Slack Cor., 1621 Yates Ave., $64,020. Noted Apr. 9.

Fla., Largo—Sewers in various streets, to J. B. Crary Constr. Co., Atlanta, Ga., $300,000.

O., Salem—City, enlarging sewage disposal plant, to Lombardi & Bowlus, Akron, $32,368.

Neb., Omaha—To G. Carlson, 2449 Larimore St., 5,855 ft. 8- to 15-in. vitr. clay sewers in Dist. 891 $9,307, 3,730 ft. 8- to 24-in. concrete sewers in Dist. 905 $5,196; to Boyne Constr. Co., 901 9th Ave., Council Bluff, Ia., 1,200 ft. 12- to 24-in. vitr. clay sewers in Dist. 899 $2,353, 963 ft. 8- to 15-in. vitr. clay sewers in Dist. 901 $1,140, 613 ft. 8- to 12-in. vitr. clay sewers in Dist. 900 $687, 605 ft. 8- to 12-in. vitr. clay sewers in Dist. 913 $535, 475 ft. 10 in. vitr. clay sewers in Dist. 911 $570; to Humphrey Bros., 4420 Leavenworth Ave., 3,750 ft. 8- to 24-in. virt. clay sewers in Dist. 906 $4,525, 1,475 ft. 8- to 24-in. vitr. clay sewers in Dist. 907 $4,160.

Calif., Los Angeles—For 1,500 ft. cement sewer in Central Ave. between Florence and Manchester Aves., to J. Chutuk, 343 Wilcox Bldg., $138,118. Engrs. est. $187,-647. Noted Apr. 9.

Ont., Toronto—See "Waterworks."

Waste Disposal

PROPOSED WORK

N. J., Trenton — Hamilton Twp. Com. making plans 2 furnace incinerator, $22,-000, also tool house $6,000, both brick. C. S. Sincerbeaux, Mechanic Bldg., engrs.

Minn., Minneapolis—Lakewood Cemetery Assn., C. S. Langdon, 1224 First Natl.-Soo Line Bldg., had plans prepared by F. A. Kees, 246 Plymouth Bldg., 2 story and basement, 40 x 80 ft., brick and concrete incinerator. $40,000.

Bridges

PROPOSED WORK

Maine — State Hy. Dept., Augusta, authorized $3,000,000 bonds combination highway and railroad bridge across Kennebec River between Bath and Woolwich. Noted Mar. 19 under "Bath."

Me., South Portland (Portland P. O.)—Portland Terminal Co., Union Station, Portland, plans new bridge at Skunk Hill, here. $125,000.

Mass., Rockdale (Mail Northbridge) — Town of Northbridge appropriated $25,000 for new bridge over Blackstone River, south of here. Engineer not selected.

Conn., Waterbury—Plans to issue $400,-000 bonds for bridges over Mad River and over railroad tracks at Huntington Ave. R. A. Cairns, city engr.

O., Cincinnati—Plans placing new steel on 900 ft. bridge, 8th St. $62,712. F. Krug, City Hall, engr.

Ia., Carroll — Carroll Co. making preliminary plans one 100 ft. and two 70 ft. span rein.-con. and steel pony truss bridge with 18 ft. roadway over Coon River. $26,-000. J. F. Maher, Carroll, engr.

Ark., Dardanelle—Comrs. Yell and Pope counties election soon $300,000 bonds, bridge over Arkansas River, here. $600,000. State and Federal Aid will pay $300,000 toward cost.

Tex., Dickens—See "Streets and Roads."

Tex., Waxahachie — See "Streets and Roads."

BIDS DESIRED

Virginia—See "Streets and Roads."

Ga., Greenville—Apr. 24, by State Hy. Dept., East Point, concrete and steel bridge and concrete culverts on Greenville-Talbotton Rd., Meriwether Co., 18,801 lb. reinforcing in bridge and 4,889 lb. reinforcing in culverts, etc. W. R. Neel, highway engr.

Alabama—May 13, by State Hy. Dept., Montgomery, bridge over Choctawhatchoo River, near Newton, State Project 83, Dale Co., 167,500 lb. structural steel, 44,600 lb. reinforcing, 5,800 ft. treated timber structures, 1,700 ft. treated timber piles, etc.; bridge over Bear Creek, on Mergerum-Mississippi State line Rd., State Project 47-A, Colbert Co., 140,319 lb. structural steel, 66,250 lb. reinforcing, 60,061 ft. treated timber structures, 1,900 ft. treated timber piles, etc.; bridges on road from Athens to Federal Aid Project 49, State Project 19, Limestone Co., 149,320 lb. reinforcing, etc.; bridges on Huntus Station-Chilton Co. line Rd., Montgomery and Autauga Counties, 1,844 cu.yd. concrete, 292,535 lb. reinforcing, etc. W. S. Keller, highway engr.

Wis., Fond du Lac — See "Streets and Roads."

Wis., Green Bay—Apr. 21, by Highway Comn., Green Lake Co., Court House, 10 and 22 ft. steel and concrete slab span bridge on Bond Rd. 29; 8 ft. steel and concrete slab span bridge and 37 rein.-con. culverts on Bond Rd. 28; 2 rein.-con. culverts on Bond Rd. 34, 7 rein.-con. culverts on Bond Rd. 36, 1 rein.-con. culvert on Dalton-Portage (Old Military) Rd., and 1 rein.-con. culvert on Dover St. in city of Princeton. D. C. Williams, comr.

Tex., Alpine—See "Streets and Roads."

Tex., Franklin—See "Streets and Roads."

Tex., Sweetwater—May 5, by Nolan Co., concrete bridges on 7.6 mi. State Highway 70, Federal Aid Project 534-A. $35,000. J. A. Focht, Sweetwater, engr.

Nev., Verdi—Apr. 22, by Directors Dept. Highways, Carson City, 3 bridges and approaches including 70 ft. plate girder on cylinder piers and 100 ft. and 126 ft. steel trusses on concrete abutments or alternates on 70 ft. plate girder on cylinder piers and 91 ft. and 126 ft. rein.-con. arches in Washoe Co., near here. State will furnish cement f.o.b. cars at Verdi. G. W. Borden, highway engr.

BIDS RECEIVED

N. J., Perth Amboy — Bd. Freeholders Middlesex Co., County Record Bldg., New Brunswick, Trunnion bascule span, steel and concrete approach spans over Woodbridge Creek, here, from M. Staub, Pitman, and Kolyn Constr. Co., 417 Commonwealth Bldg., Trenton, $191,651. Noted Mar. 12.

N. J., Red Bank—State Hy. Comn., Trenton, concrete encased girder span highway bridge with 12 spans totaling 921 ft., etc., over Navesink River, near here, from S. S. Thompson, Herbert St., Red Bank, $389,387. Noted Mar. 26.

S. C., Georgetown—Georgetown Co., 596 ft. bridge approaches on State Project S-562, from Sanford Brooks, Charleston, S. C., $75,672; steel superstructure, from Roanoke Iron & Bridge Wks., Roanoke, Va., $31,100. Noted Mar. 12.

S. C., Kingstree—Williamsburg Co., Apr. 2, 5 treated timber bridges over Black River, on State Route 421, State Project S-563, from J. A. Peterson, Montgomery, Ala., $41,777; roadwork, from W. B. Boyle Co., Sumter, $29,591. Noted Mar. 26.

Tex., Albany—See "Streets and Roads."

Tex., Sweetwater — Nolan Co., concrete bridge and box culverts on State Highway 70, from Hannah Constr. Co., Box 994, Waco, $43,379, engrs. est. $30,000; 4 large concrete girder bridges on concrete pile trestle foundations, on State Highway 1, 172,359 lb. reinforcing, 2,964 ft. concrete piling, etc., from Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $26,175, engrs. est. $51,466.

CONTRACTS AWARDED

Del., Wilmington—Pennsylvania R.R. Co., Broad St. Sta., Phila., Pa., masonry work of railroad bridge over Chesapeake and Delaware Canal, to Vang Constr. Co., Bessemer Bldg., Pittsburgh, Pa. Structure will cost about $650,000, of which ⅔ will be paid by government.

La., Monroe—See "Streets and Roads."

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 8, Sect. 48-B, Peoria and Knox Counties, to A. P. Munsen, Marion, Ia., $8,035; bridge on Route 36, Sect. 15-B, Pike Co., to F. Wustholtz, Claytonville, $12,649; bridge on Route 31, Sect. 15-B, Schuyler Co., to Adams Constr. Co., Minneapolis, Minn., $17,161; bridge on Route 22, Sect. 13 D, Will Co., to Powers Thompson Constr. Co., Joliet, $137,672. Noted Apr. 2.

Ia., Vinton — Benton Co., 50 items of bridge and culvert work in various parts of county, to Vinton Eng. & Constr. Co., Vinton, $31,950.

Railways

PROPOSED WORK

Connecticut — The Connecticut Co., 185 Church St., New Haven, plans extending about 1.5 mi. single track from present terminus Dixwell Ave. to Whitney Ave. in Hamden. Most of work will probably be done by day labor. M. M. Johnston, div. engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Conn., Hartford—Plans public improvement to cover over Gully Brook to reclaim adjacent property. $100,000. R. N. Clark, city engr.

Ont., Chatham—Dover Twp. plans repairing and clearing Whitebread and Boyle drainage systems. $25,000. W. G. McGeorge, Chatham, engr.

Ont., Guelph—Guelph Twp. plans municipal drain, 75,000 cu.yd. excav. $25,000. W. Laidlaw, clk.

B. C., Courtenay—Dominion Government, Ottawa, Ont., takes bids in about 2 months, dredging channel from Comok Harbor Flats to Courtenay River Bridge. $37,500. J. P. Forde, Dominion Bldg., Victoria, engr.

BIDS DESIRED

N. J., Newark—Apr. 20, at office T. L. Raymond, dir. Wks., City Hall redredging section of Newark Channel.

Michigan—May 25, by G. A. Dingman, drain comr. Wayne Co., County Bldg., Detroit, constructing Sexton-Kilfoil drain, 14 sections, each 5,200 ft. long, in Wyandotte and Lincoln Park.

Ia., Storm Lake—Apr. 21, at office W. H Kaufman, Aud. Buena Vista Co., 5 mi. small tile drainge, 36,765 lin.ft. 6- to 16-in. tile. A. H. Cunningham, Storm Lake, construction engr.

Minn., Granite Falls—Apr. 28, by G. H. Wilson, aud. Yellow Medicine Co. (Granite Falls) and R. D. Houderscheldt, aud. Lyon Co. (Marshall), constructing Judicial Ditch 14, 48,100 ft. 7-20-in. tile and 3,435 ft. 30-32 in. double strength tile, 1 bulkhead, 15 intakes. $50,500. J. Norgaard, Granite Falls, engr.

Tex., Bay City—W. E. McNabb, judge, and E. N. Gustafson, engr., Bay City, taking bids protection levee, drainage ditches, spillway, structure and drain pipes, incl. 14,400 yds. earth fill, 2,100 ft. outfall ditch,

Excavation, Drainage, Irrigation, Levees (Continued).

320 ft. 102 ft. 18- to 42-in. armco pipe, 8 acres clearing and grubbing, etc. $35,000.

Okla., Seminole—Apr. 21, by E. Cooper, clk. Seminole Co., draining and straightening 10 mi. Little River, 36,000 cu.yd. earth and 4,600 cu.yd. rock excav., 118,000 cu.yd. floating dredgework, etc., for Little River D. D. 1. $47,000. H. J. Wilkins, 227 West Grand St., Oklahoma City, engr.

Calif., Tracy — Apr. 29, by Trustees Banta-Carbona Irrigation Dist., rein.-con. road and railroad crossings, also check and turnouts in canal system under Contract 9. To exceed $50,000. W. D. Harrington, Tracy, engr.

Calif., Vista—Apr. 22, by Directors Vista Irrigation Dist., excavate and backfill 475,000 ft. trench for 308,000 ft. concrete pipe from 8- to 36-in. diam., and 167,000 ft. wrapped riveted steel pipe and fittings from 4- to 18-in. diam. for distribution system. K. Q. Volk, Vista, ch. engr.

CONTRACTS AWARDED

New York — K. Fuller, comr. Canal & Waterways, Albany, repairs to Glens Falls feeder and Old Champlain Canal at Ft. Edward Contr. M-7, from J. W. Holler Inc., Ft. Edward, $24,288 engrs. est. $27,267; also repairing to Pendleton Guard Gate, Contr. M-8, from J. Irwin Co., 98 Evan St., Lockport, $6,898. Engrs. est. $6,850.

Ia., Marengo—Iowa Co., to J. W. Ross, Newton, 6,900 ft. levee work, 25,000 cu.yd. levee fill at $0.143 per cu.yd., and 4,400 cu. yd. channel change $0.169. Noted Mar. 19.

Streets and Roads

PROPOSED WORK

Mass., Arlington (Boston P. O.)—Bd. Selectmen plans resurfacing and improving Bway. from Somerville line to Arlington Center. $57,500. State expects to appropriate additional sum. Engineer not selected.

Mass., Dedham—Town appropriated $95,000 for highway and road improvements. Engineer not selected.

Mass., Newton—Dept. Pub. Wks., plans constructing and improving various streets. $818,400 appropriated.

Mass., West Roxbury (Boston P. O.)—Dept. Pub. Wks., Boston, plans constructing Rosindale Ave. and Medford St., here. $25,000. J. A. Rourke, comr.

Rhode Island—State Hy. Comn., Providence, plans additions to highway systems in Scituate, Coventry, West Warwick, Jamestown, North, Cranston and Barrington. $900,000 appropriation asked.

Connecticut—State Hy. Dept., Hartford, plans constructing 3 mi. road connecting State Trunk Highway, at Mansfield Center with State Aid Highway, near Atwooodville. $100,000. J. A. MacDonald, comr.

Conn., Waterbury—Plans to issue $200,000 bonds for street improvements. R. A. Cairns, city engr.

New York—Town Bd., Tonawanda, plans widening 11 mi. Delaware Ave. from Kenmore to Tonawanda. To exceed $100,000.

N. J., Carteret—Plans sheet asphalt paving Emerson, Lincoln and McKinley Aves. $27,000. O. Mitchell, town engr.

N. J., Hopewell — Hopewell Twp. Com. plans 2.2 mi. penetration macadam road. $66,000. C. S. Sincerbeaux, Mechanic Bldg., Trenton, engr.

W. Va., Bridgeport — Election Apr. 28, $52,500 bonds, improving 3rd and other streets. F. G. W. England, city recorder.

W. Va., Clarksburg—Harrison Co. plans election $350,000 bonds for roads in Grant Dist. G. L. Coyce, Clarksburg, engr.

W. Va., Point Pleasant—Mason Co. election Apr. 23, $70,000 bonds, improving roads in Robinson Dist.

Fla., Cocoa—Election Apr. 20, $186,000 bonds paving various streets. E. E. Grimes, mayor.

Ala., Florence—Plans to expend $250,000 for street paving, sidewalks, curbing, sewers, etc., in various streets. Noted Feb. 26.

La., Baton Rouge — Soon takes bids grading, gravel surfacing and bridging 14 mi. Rd. Dist. 10. A. G. Mundinger, Baton Rouge, engr.

La., Lafayette—V. E. Smith, city engr., soon takes bids 4 mi. cement sidewalks.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 3.5 mi. Knoxville-Rutledge Pike, Knox Co. J. G. Creveling, highway comr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, takes bids probably in May, constructing 4 mi. Millington-Tipton Co. line Rd., Shelby Co.; and 10 mi. Clintonfellico Rd., Anderson Co.; grading, etc., 10 mi. Pulaski-Columbia Rd., Giles Co. J. G. Creveling, highway comr. Noted Mar. 26.

Tenn., Cleveland—Bradley Co. and State Dept. Hys. & Pub. Wks., Nashville, plan grading and probably gravel or macadam surfacing, 10 mi. Cleveland-Charleston Rd. Work will probably be done by own forces. $25,000. J. G. Creveling, highway engr.

Tenn., Nashville — Bd. Pub. Wks. soon takes bids asphalt on macadam surfacing 18th Ave. from Division to Belcourt Sts. $47,000. W. W. Southgate, city engr. Noted Apr. 9.

Tenn., Selmer—McNairy Co. voted $200,000 bonds for various state and federal aid roads.

Tenn., Union City — Obion Co. election May 6, $1,000,000 bonds, hard-surfacing various roads. Noted Mar. 12.

O., Akron—Summit Co., takes bids this spring widening 14 mi. Cuyahoga Falls-Chagrin Falls Rd., $40,000; traffic bound slag paving 4.6 mi. Clinton-Greensburg Rd., 16 ft., in Franklin Green Twps. $50,000, 4.3 mi. Clinton-Comet-Hampsher Rd., 16 ft. $43,000, 2.73 mi. Monroe Falls-Kent Walsh Rd., 16 ft., $27,500; asphalt or concrete paving 0.7 mi. South Main St., in Green Twp., 18 ft., $27,500, 1.8 mi. Cuyahoga Falls-Magadore Rd., 18 ft., $63,000; brick paving 0.68 mi. Kenmore-Magadore Rd., 18 ft. $68,000, 1 mi. East Akron-Brimfield St., 30 ft., $34,943; water bound macadam paving 2.1 mi. Rex Hill-Uniontown Rd., 16 ft., $49,000; bituminous macadam or concrete paving 1.17 mi. Swartz Corners-Turkey Foot Lake Rd., 16 ft., $44,500; brick and bituminous macadam paving 2.58 mi. Richfield-Hudson Rd., 16 ft., $111,000; concrete or asphalt on concrete paving 7.86 mi. Twinsburg-Elyria Rd., 16 ft., $300,000; rein.-con. paving 2.75 mi. Akron-Medina Rd., 24 ft., $140,000; improving 5 mi. Akron-Youngstown Rd., $80,000, 1.75 mi. Hametown-Richfield Rd., $25,000, 4 mi. Link connecting Manchester and Greensburg Rd., $40,000, all foregoing 16 ft. R. E. Willems, Court House, engr.

O., Barberton—Bd. Control takes bids in fall, brick paving Norton Ave. $30,000. H. Alcorn, city engr.

O., Canton—Bd. Control, soon takes bids probably asphalt paving 0.75 mi. St. Elmo St., 30 ft. $45,000-$50,000. W. E. Sarver, City Hall, engr.

O., Canton—Plans improving Case Pl. N. W. $30,000, and 14th St. S. W. $30,000; grading, curbing and asphalt paving Irwins Pl., $30,000. W. E. Sarver, City Hall, engr.

O., Cincinnati — Plans grading, curbing, guttering, sidewalks and paving Kellogg Ave., 15,800 sq.yd. vitr. brick and 3,200 cu.yd. concrete, $376,865; 8th St., 8,950 sq.yd. 4 in. granite block and 1,750 cu.yd. concrete, $90,593. F. Krug, City Hall, engr.

O., Cincinnati—Hamilton Co. plans grading and 10 in. bituminous macadam resurfacing 12,000 sq.yd. Rapid Run Pike. $25,390. E. A. Gast, Court House, engr.

O., Cincinnati—Hamilton Co., plans grading and 13 in. bituminous macadam paving, etc. I.C.H. 7 from 3 mi. Rd. to point 3,500 ft. east. $31,300. E. A. Gast, Court House, engr.

O., Columbus — Making plans, grading, laying necessary water services, sewer connections and paving 2,200 ft. Parsons Ave., brick $49,687, asphalt $41,549, 1,124 ft. alleys west of Dennison Ave., Wager and 17th Sts., 20 ft., brick $9,194, concrete $8,112, 1,982 ft. alley north of Reinhard Ave., 12 and 17 ft., brick $13,197, concrete $11,665, 442 ft. alley north Whittier St., 15 ft., brick $2,659, concrete $2,349; 7,710 ft., 6 and 8 in sanitary sewer, etc. in alley north Walhalla Rd., $20,791. R. H. Simpson, city engr.

O., Dayton — Plans concrete and brick or sheet asphalt and brick paving also storm sewer in 7,000 ft. Home Ave., 40 ft., $203,897, brick paving 300 ft. Stout St., 45 ft., $10,676. J. F. Hale, city engr.

O., Lisbon—Columbiana Co., soon takes bids asphalt paving 2.25 mi. Wellsville-East Liverpool intercounty Highway. $50,000. L. C. Kirk, co. engr.

O., New Philadelphia — Tuscarawas Co. takes bids in spring macadam paving 0.979 mi. Urichsville-New Comerstown Rd., 16 ft., $32,967. E. Stingel, New Philadelphia, engr.

O., Sebring—Takes bids in spring asphalt resurfacing over present brick paving on Ohio Ave. $75,000.

O., Struthers — Bd. Control soon takes bids brick or concrete paving Williams St. $35,000-$40,000, 3rd St. $35,000, Grandview Ave. $30,000, and Marion Ave. $30,000; improving Park Ave. $25,000.

O., Wooster — Wayne Co., soon takes bids improving 4.23 mi. Wooster-Burbank Rd., in Canaan Twp., $80,000, 4.49 mi. Wooster-Congress-West Salem Sect., $81,000, Wooster-Canal Fulton Rd., $45,000; and graveling 2.4 mi. Wooster Rd., etc., $30,000, all 16 ft.

O., Youngstown — Takes bids in spring brick or asphalt paving 15th St. $45,000. G. Turner, city engr.

Mich., Springwells—Made plans concrete paving Morrow Circle, Wyoming, Dix, Kingsley, Middlepoint, Normile, Freda, and Theisen Aves. $400,000. Hubbell, Hartering & Roth, 2348 Penobscot Bldg., Detroit, engrs.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Dec. 17, surfacing Route 31, Sects. 16 and 17, Fulton Co. Noted Dec. 25.

Ill., Kewanee — Plans grading, curbing, granite on rein.-con., brick, concrete or Warrenite bitulithic surfacing, etc., about 19 blocks Prospect Grove, Franklin, 4th, Burr, Lyle, 1st and Elm Sts., 30 ft. $50,000. J. G. Palmer, City Hall, engr.

Minn., St. Paul — Ramsey Co. making plans one course rein.-con. paving 3 mi. County Project 2552, Prescott connection from west end of Prescott Bridge to Trunk Highway 3, $100,000; also grading and gravel surfacing 1 mi. County Project 2554 between South Robert St. and Minnesota Trunk Highway 1, $25,000. P. N. Coates, 900 Guardian Life Bldg., co. surv.

Neb., Lincoln—Soon takes bids grading, curbing and hard surfacing 36 blocks 25th, 13th, Van Dorn, 20th, Otoe, Pawnee, Dakota, 31st, 18th, Washington, F and 33th Sts. $144,500. D. L. Erickson, City Hall, engr.

Neb., Pawnee City—Pawnee Co. making preliminary plans grading and gravel surfacing 15.5 mi. various roads, 18 ft.

N. D., Ashley—McIntosh Co. plans grading road 11 mi. north of Zeeland, then 4 mi. east and 8 mi. south to state highway. $35,000. J. Billigmeier, co. aud.

Tex., Amarillo—Randall Co. plans election $30,000 bonds improving about 4 mi. highway in Sd. Dist. 4. R. L. Lester, co. judge. Engineer not selected.

Tex., Anderson—Grimes Co. plans gravel surfacing 8.8 mi. State Highway 45, 16 ft. $121,500. O. E. Seward, Anderson, co. engr.

Tex., Anson—Jones Co. making plans surfacing approximately 14 mi. State Highway 1, 16 ft. $457,000. F. E. Devlin, Anson, and 614 Bitting Bldg., Wichita, Kan., engr.

Tex., Barstow—Ward Co. soon takes bids gravel surfacing 4.61 mi. Federal Aid Project 391-B, 18 ft. $88,250. S. S. Posey, Anson, co. engr.

Tex., Childress—Plans election $150,000 bonds, improving 50 blocks various streets. Address Mayor.

Tex., Dickens — Dickens Co. soon takes bids grading, bridging, gravel and sand clay surfacing 12.44 mi. State Highway 11, between Dickens and Motley Co. line, 18 ft. $92,600. J. W. Alger, Dickens, co. engr.

Tex., Waxahachie — Ellis Co. making plans grading, bituminous on macadam surfacing and bridging 4.83 mi. State Highway 34, Federal Aid Project 385-D, 18 ft. $172,600. W. A. Spalding, Waxahachie, co. engr.

Okla., Cordell—Plans grading and concrete surfacing 30,000 sq.yd. Market, College and Church Sts. $90,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Lindsay—Plans grading, curbing and vertical fibre brick surfacing 13,600 sq. yd. Main St. $51,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Tulsa—Election Apr. 14, $500,000 bonds, paving various streets. Address Mayor.

Okla., Wetumka—Plans grading, curbing and vertical fibre brick surfacing 8,700 sq. yd. North Canadian and East Benson Sts. $42,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Arizona — State Hy. Comn., Phoenix, making preliminary plans grading and surfacing approximately 50 mi. road from Winkelman-Mammoth Highway to site of Carlos Dam on Gila River, to Pinal Co. To exceed $150,000. W. C. Lefebvre, highway engr.

Wash., Bucoda — City Clerk takes bids about June 4, concrete paving ¾ mi. Main St. et al, 20 ft. $33,000.

California — State Hy. Comn., Sacramento, making plans widening and paving approximately 13 mi. Redwood Highway between Santa Rosa and Healdsburg, Sonoma Co.; also widening and resurfacing 5.8 mi. Placerville Route to Lake Tahoe between Camino and point 2 mi. east of Sportsman's Hall, El Dorado Co. R. M. Morton, Sacramento, highway engr.

Calif., Los Angeles — Plans widening Olive Ave. between Pico and 7th Sts. $60,000 or more. H. A. Van Norman, City Hall, engr.

Calif., Los Angeles—City and Los Angeles Co. plan widening and surfacing Chatsworth Dr., Devonshire St. and Canoga Ave. $450,000. City, property owners, and Los Angeles Co., each pay ⅓ of cost.

Calif., Los Angeles — Los Angeles Co. made plans improving portions of Ford St., Impvt. Dist. 150, 9,890 sq.yd. shape roadway, 9,810 sq.yd. 6 in. concrete on 4 in. sub base, 15,186 sq.yd. sidewalks, etc., to

Streets and Roads (Continued)

exceed $25,000; portions of San Pedro St., Impvt. Dist. 173, 6,276 cu.yd. excav., 13,182 sq.yd. gutters, 23,941 sq.yd. shape roadway, 23,941 sq.yd. concrete, 5,326 ft. curb, etc., to exceed $65,000; Market St., Impvt. Dist. 174, 2,387 cu.yd. excav., 18,079 sq.yd. 6 in. concrete, 26,050 sq.ft. sidewalks, etc., to exceed $40,000; Swall Ave., Impvt. Dist. 247, 2,956 cu.yd. excav., 13,435 sq.yd. shape roadway, 9,890 sq.ft. gutter, 13,435 sq.yd. 8 in. concrete, etc., to exceed $30,000; and portions of Chevy Chase Dr., 104,020 cu.yd. excav., 41,335 sq.yd. shape roadway, 7,377 sq.yd. 6- to 8-in. concrete, etc., to exceed $115,000. A. K. Warren, co. engr.

Calif., Marysville—Making plans paving C, 13th, Chestnut and various other streets. To exceed $25,000. L. B. Crook, city engr.

Calif., Oakland — Alameda Co. making plans improving 2.5 mi. Bay Farm Island Rd. To exceed $50,000. Cost to be borne by county and cities of Oakland and Alameda. G. A. Posey, Oakland, co. surv.

Calif., San Francisco — Bd. Pub. Wks. soon takes bids grading 30th Ave. between Geary and Anza Sts., etc. $52,000, also asphaltic concrete paving, etc., 111,760 sq.ft., Orizaba St. between Randolph and Bway. Sts., to exceed $25,000. M. M. O'Shaughnessy, City Hall, engr. Noted Dec. 25.

Calif., Stockton — Making plans improving East Main St. from Wilson Way to city limits, 5,006 cu.yd. cut, 2,127 yd. cut, 10,192 ft. concrete curb and gutter, 15,908 sq.ft. concrete sidewalks, 217,825 sq.ft. 5 in. warrenite-bituminous on 3.5 in. asphaltic concrete and 2.5 in. gravel surface, etc. To exceed $72,500. W. B. Hogan, city engr.

Ontario—Dept. Provincial Highways, 110 University Ave., Toronto, plans asphalt on macadam paving 12 mi. highway from Belleville to Trenton. $300,000. G. Hogarth, ch. engr.

Ontario—Northern Development Branch, Dept. Provincial Highways, Parliament Bldgs., Toronto, plans expending $5,000,000 on maintenance of existing roads and construction of new ones in northern Ontario. C. H. Fullerton, ch. engr.

Ont., Hamilton—Wentworth Co. plans 7 mi. new waterbound macadam roads. $78,675. H. A. Lumsden, County Bldg., engr.

Ont., Lucknow—Plans probably concrete paving 11,000 sq.yd. main streets. $38,000, Engineer not selected.

Ont., Mildmay—Bruce Co. (Walkerton), plans concrete paving 8,000 sq.yd. Absolom St., here. $25,000. G. R. Stephenson, Walkerton, co. engr.

Ont., Port Burwell—Bayham Twp. plans 2 mi. waterbound macadam road between here and Houghton. $30,000. B. Brian, Straffordville, clk.

Ont., Port Hope—Plans asphalt paving 30,000 sq.yd. main streets. $90,000. Engineer not selected. J. W. Sanders, clk.

Ont., Smiths Falls — Lanark Co. plans macadamizing 2 mi. road between here and Franktown. $35,000. S. B. Code, Smiths Falls, engr.

Ont., Toronto—Plans bituminous concrete paving 4,500 sq.yd. Newmarket Ave., $21,202; concrete curbs $1,032, concrete sidewalks on Edith Ave. $1,982; grading 8th Ave. $4,758, lane from Munro to Hamilton Sts. $4,900, and Walden Ave. $9,300; widening Don Esplanade Ave. E., $30,000. R. C. Harris, city engr.

Ont., Toronto — Plans asphalt or bitulithic paving, etc., 7,500 sq.yd. University Ave. from Queen to Front Sts. $300,000. R. C. Harris, city engr.

Ont., Toronto — East York Twp. plans asphalt and concrete paving 25,000 sq.yd. various roads. $100,000. G. R. Jack, Municipal Yard, Sammon Ave., engr.

Ont., Woodstock—Oxford Co. voted $80,000 bonds waterbound macadam and concrete paving 30,000 sq.yd. new roads. F. J. Ure & Sons, Woodstock, engrs.

BIDS DESIRED

Massachusetts — Apr. 21, by Dept. Pub. Wks., State House, Boston, concrete and bituminous macadam paving 8,850 ft. highway in Rahyham, $60,000; bituminous concrete paving 4,784 ft. highway in Barnstable, $40,000; bituminous macadam paving 2,331 ft. highway in Holbrook, 7,150 ft. highway in Stoughton $40,000, 1,115 ft. in Williamsburg $5,000, and 3,410 ft. highway in Danvers $20,000. W. F. Williams, comr.

Massachusetts — Apr. 28, by Dept. Pub. Wks., State House, Boston, bituminous macadam paving 15,122 ft. highway in Belchertown, 18 ft. $75,000. W. F. Williams, comr.

Mass., Boston—Apr. 22, by Dept. Pub. Wks., sheet asphalt or bitulithic paving Wildwood St., in Dorchester, and Caledonia Ave., in West Roxbury. $51,000 bonds. J. A. Rourke, comr.

Rhode Island—Apr. 22, by State Bd. Pub. Wks., Providence, concrete paving 1.72 mi. Nooseneck Hill Rd., Contr. 2502, Federal Aid Project 26, in West Greenwich; sheet asphalt on concrete paving 0.99 mi. Warren and Main Sts., Contr. 2505, in Providence; also 250,000 gal. asphaltic oil or refined tar on certain sections state roads; adv. E. N.-R. Apr. 16.

R. I., Cranston—Apr. 17, by Bd. Cont. & Purchase, City Clerks Office, City Hall, granite curbing, etc., 30,000 ft. or more, various streets. A. A. Rhodes, chn.

Conn., Manchester—Bd. Selectmen, Town Hall, taking bids about granite and concrete curbing and sidewalks on various streets, $30,000; also concrete guttering various streets, $10,000.

N. Y., Brooklyn — Apr. 22, by J. A. Guider, boro pres., Boro Hall, grading sidewalk space, curbing and flagging 7th Ave., West 6th and 81st Sts.; asphalt paving 36th, 8th and 81st Sts.

N. Y., Buffalo — Apr. 17, by T. H. McElvein, Jr., purch. agt. Erie Co., 263 Terrace St., for road building materials for highways.

N. Y., Buffalo—Apr. 21, by Supervs. Erie Co., constructing 11 mi. Harlem Rd. Part 3, and Cooper Ridge Rd., 16, 18 and 20 ft. G. C. Diehl, 577 Ellicott Sq. Bldg., engr.

N. Y., New York—May 5, by New York State Bridge & Tunnel Comn., and New Jersey Interstate Bridge & Tunnel Comn., Room 3004 Woodworth Bldg., granite block with asphalt mastic joint filler on sand-cement cushion paving Holland Tunnel, Contr. 10; adv. E. N.-R. Apr. 16.

N. Y., St. George — Apr. 21, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous macadam repaving Richmond Rd., Richmond Turnpike, Prospect St., Oakland and Leyden Aves.

N. J., New Brunswick—Apr. 21, by City Comn., E. J. McLaughlin, city clk., sheet asphalt paving Laurel, Duke, Fulton, Robinson, Handy, Remsen, Ward and Lee Aves. $184,450. A. Atkinson, city engr.

N. J., Westwood—Apr. 21, by Mayor and Council, Boro Hall, Center St., grading, paving, water mains, sewers, etc., in Lotus St., 2nd, Park, Madison, Lexington, Roosevelt and Clinton Aves. W. L. Best boro clk.; adv. E. N.-R. Apr. 16.

Pennsylvania — May 1 and May 2, by Dept. Highways, Harrisburg, bituminous or rein.-con. paving 70 mi. 20 projects in 17 counties. P. D. Wright, secy.; adv. E. N.-R. Apr. 16.

Pa., Sharon—Apr. 21, paving with sheet asphalt on concrete 6,040 sq.yd. South Oakland Ave., 3,810 sq.yd. Baldwin Ave., 3,090 sq.yd. Sherman Ave., 2,770 sq.yd. 3rd Ave.; sheet asphalt or brick on concrete paving 6,820 sq.yd. South Irvine Ave. F. S. Williams, city clk.

Pa., Waynesburg — Apr. 18, by Comrs. Greene Co., concrete surfacing 23,140 ft. Nineveh Rd., in Morris Twp.

Md., Baltimore—Apr. 22, by Bd. Awards, asphalt paving 14,080 sq.yd. Contr. 277-OCOA. S. C. Rowland, 214 East Lexington St., acting chn. paving com.

Virginia—Apr. 28, at office of State Hy. Comn., Richmond, improving roads and bridges on Route 18, Project S-20-C, Nelson Co.; Route 14, Project F-259-A, Pittsylvania Co.; Route 28, Project F-301-A, Albermarle Co.; Route 31, Project F-358-G, Hanover Co.; and Route 31, Project F-3772-B, Spotsylvania Co. C. S. Mullen, ch. engr.; adv. E. N.-R., Apr. 16.

W. Va., Matoaka—Apr. 28, by Common Council, one course concrete, bituminous macadam, and Topeka top on concrete surfacing 8,000 sq.yd. various streets. T. C. Godfrey, recdr.

N. C., Beaufort — Apr. 22, by Bd. Dirs. Beaufort Co., constructing (exclusive of surfacing) 5.8 mi. State Route 32, State Project S-524. A. T. Brown, Scovill Bldg., Orangeburg, engr.

S. C., Bennettsville — Apr. 23, at office Special Rd., Comn., grading and clay gravel surfacing 12,178 cu.yd. State Route 30, State Project S-560. J. M. Martin, Florence, engr.

Georgia — Apr. 24, by State Hy. Dept., East Point, improving 5.663 mi. Federal Aid Project 204, Echols and Lowndes Counties, 39,810 sq.yd. surface treatment; 63,360 sq.yd. rock asphalt and 10,560 sq.yd. surface treating Valdosta-Adel Rd., Federal Aid Projects 91 and 357, Lowndes Co.; top soiling 3.232 mi. Gainesville-Baldwin Rd., Federal Aid Project 423-A, Habersham Co.; grading 3.967 mi. Columbus-Cusseta Rd., Federal Aid Project 404-C, Muscogee Co., and 3.646 mi. Royston-Demelsville Rd., Franklin Co. W. R. Neel, highway engr.

Fla., Bartow—Apr. 28, by City Comn., curbing, guttering and paving 17,000 sq.yd. various streets. $71,644. E. V. Camp & associates, Bartow, and Hill Bldg., Jacksonville, engrs. Noted Mar. 5.

Louisiana—Apr. 30, by State Hy. Comn., Reymond Bldg., Baton Rouge, graveling 7.15 mi. Federal Aid Project 148 B, Bernice-Junction City Highway, Union Parish; 9.24 mi. State Project 336 C, Winnsboro-Delhi Highway, Franklin Parish; 4.43 mi. State Project 468 A, Morrow-Moreauville Highway, Landry Parish; 7.15 mi. State Project 447, and 7.15 mi. State Project 447, Kaplan-Crowley Highway, Vermillion Parish; and 3.83 mi. State Project 429 A, Natchitoches-Boyce Highway, Natchitoches Parish. W. B. Roberts, ch. engr.

Tenn., Nashville—Apr. 24, by City Clerk, asphalt on macadam surfacing Fatherland St., 3rd and Wedgewood Aves. Separate bids on concrete curbing and guttering. W. W. Southgate, City Hall, engr. Noted Jan. 22.

Ky., Brownsville—Apr. 25, by Edmonson Co. Fiscal Court, Court House, cold patching and surface treating 11 mi. Brownsville-Dixie Highway, 9 ft.

O., Cincinnati—Apr. 24, by Comrs. Hamilton Co., 165,000 gal. Tar, Grade 1, 227,000 gal. heavy oil and 10,420 cu.yd. sand on various roads. $95,220. E. A. Gast, Court House, engr. Noted Mar. 26.

O., Cleveland—Apr. 22, grading, curbing and paving, etc., Braemer Dr., 46th Pl., Burgess Rd. N. E., Catalpa Rd. N. E., Creston Ave. S. W., Denley Ave. S. W., Fairwood Dr. S. W., Granby Ave. S. W., Milverton Rd. S. E., Park Lane Ave. N. E., Western Ave. N. W., East 45th St., West 42nd and 44th Sts. To exceed $200,000. R. Hoffman, City Hall, engr.

O., Cleveland Heights (Warrensville P. O.)—Apr. 17, by H. H. Canfield, city mgr., 500 to 1,000 tons binder, 1,000 to 5,000 sq. yd. sheet asphalt and 1,000 to 5,000 sq.yd. asphaltic concrete wearing surface.

Ind., South Bend—Apr. 27, by P. R. Gillin, engr., South Bend, grading and graveling 20,050 ft. Folk Rd., 24 ft., $26,200, and 18,418 ft. Barkey Rd., 18 ft., $25,400; concrete paving 12,672 sq.yd. Leininger Rd., $27,250, for St. Joseph Co.

Ill., Alton—Apr. 18, by Dept. Pub. Wks., curbing, sewers, and vitr. brick surfacing 1,300 sq.yd. Hunter Court. $50,000. J. E. Schwaab, city engr. Noted Feb. 26.

Ill., Waukegan—Apr. 20, by Road and Bridge Com. Lake Co., at office C. E. Russel, co. supt., highways, Court House, grading, etc., 60,342 cu.yd. Volo-Fox Lake Rd., Sect. R-15d. I. E. Pearsall, co. treas.

Wis., Fond du Lac—Apr. 24, by Fond du Lac Co. Highway Comn., grading 5.91 mi. Marble Head County Line Rd., 12,800 cu.yd. earth, 1,200 cu.yd. loose and 92 cu.yd. solid rock excav., etc., 6.4 mi. Brandon-Kohls Corners Rd., 18,000 cu.yd. earth, 1,400 cu. yd. loose and 186 cu.yd. solid rock excav., 1,105 cu.yd. borrow, etc., 5.51 mi. Wolf Lake-Marytown-County Line Rd., 14,100 cu. yd. earth, 1,800 cu.yd. loose and 155 cu.yd. solid rock excav., etc.; two 30 ft. concrete deck girder span Brenner bridge over Sheboygan River on County Trunk W, all in Fond du Lac Co. J. McCullough, highway engr.

Wis., Markesan — Apr. 21, by Highway Com. Green Lake Co. (Green Lake), grading and concrete surfacing 12,092 sq.yd. portions of John and Bridge Sts. D. C. Williams, comr.

Wis., Merrill — H. R. Allen, city clk., taking bids grading and paving various streets, 20,000 sq.yd. vibrolithic concrete, 7 in. rein.-con., 7 in. concrete, 2.25 in. brick with 5 in. concrete base or 1 in. sand cushion and asphalt filler.

Wis., Rhinelander—Apr. 24, by City, paving approximately 50,000 sq.yd. various streets. J. Donohue Eng. Co., 608 North 8th St., Sheboygan, engr.

Wis., Shorewood (Milwaukee P. O.) — Apr. 20, by T. Olsen, village clk., grading and concrete paving approximately 24,000 sq.yd. 7 streets. H. A. Schmitt, Village Hall, engr.

Wis., Whitefish Bay (Milwaukee P. O.) —Apr. 20, by W. Volkmann, village clk., concrete and vibrolithic concrete paving, etc. 31,000 sq.yd. various streets. T. F. Buckley, Village Hall, engr. Noted Jan. 29.

Ia., Decorah—Apr. 21, by Auditor Winneshiek Co., Court House, grading, etc., 13.31 mi. road southeast of Calmar, 142,215 cu.yd. excav., etc.

Neb., Loup City—Apr. 24, by M. E. Gilman, grading 34,600 cu.yd. Gordon Merriman Rd., Federal Aid Project 202-C, Sheridan Co. $26,000. R. L. Cochran, Lincoln, engr.

Neb., Valentine — Apr. 24, by E. B. Foster, clk., Cherry Co., improving 2.8 mi. Federal Aid Project 202-C, 21,300 cu.yd. earth, 10,700 cu.yd. loose rock and 700 cu.yd. special excav., 87,150 cu.yd. station overhaul, etc. R. L. Cochran, Capitol, Lincoln, engr.

South Dakota — Apr. 28, by State Hy. Dept., Pierre, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, grading and bridging 9.8 mi. F. A. P. 187 C, Charles Mix Co., 12.3 mi. F. A. P. 177 B, Pennington Co., 12.1 mi. F. A. P. 188 D, McCook Co., 18.1 mi. F. A. P. 185 E, Lyman Co., 6.9 mi. F. A. P. 189 B, Charles Mix Co., 9.2 mi. F. A. P. 188 C, McCook Co., and 8.8 mi. F. A. P. 171 E, McPherson Co.; grading 25 mi. F. A. P. 191 B, Clark Co., 12 mi. F. A. P. 192 A, McPherson Co.,

Streets and Roads (Continued)

and 6 mi. S. A. P. 104, Roberts Co., graveling about 11,300 yd. F. A. P. 50 B, Sanborn Co., 9,700 yd. F. A. P. 194, Douglas Co., 20,500 yd. F. A. P. 127, Hughes-Sully Co., 16,400 yd. F. A. P. 145, Beadle Co., 22,700 yd. F. A. P. 172 A, Edmunds Co., 17,300 yd. F. A. P. 179 Deuel Co., 13,600 yd. F. A. P. 186 A, Davison Co., 23,400 yd. F. A. P. 95 A, Faulk Co., 23,400 yd. F. A. P. 95 B, Hand-Faulk Co., 12,500 yd. F. A. P. 95 C, Faulk Co., 2,600 yd. F. A. P. 112, Brown Co., 17,700 yd. F. A. P. 134, Douglas Co., 21,900 yd. F. A. P. 142, Brown Co., 16,600 yd. F. A. P. 143, Marshall Co., 10,300 yd. F. A. P. 147, Hutchinson Co., 38,100 yd. F. A. P. 149 A, B, C, Spink Co., 15,400 yd. F. A. P. 167 A, Bon Homme Co., 16,700 yd. F. A. P. 170 E, Turner & Minnehaha Counties, and 19,206 yd. F. A. P. 171 A, Roberts Co.; bridge on F. A. P. 171 D, Brown Co., and concrete viaduct on F. A. P. 181 B, Potter Co. T. Soleglad, acting highway engr.

S. D., Vermilion — Apr. 27, by C. L. Vaughn, city aud., curbing and paving about 50,000 sq.yd. various streets. $125,000. Noted Dec. 25.

North Dakota — Apr. 28, by State Hy. Comn. and Bd. Comrs. Barnes Co., at Court House, Valley City, grading, clearing and grubbing, etc., 4.09 mi. Federal Aid Project 232, east and south of Rogers, and 9.223 mi. Federal Aid Project 233C, section south of Oriska; graveling, etc., 1.848 mi. Federal Aid Project 36A, south and east of Rogers, 10.36 mi. Federal Aid Project 126, north and south of Dazey, and 0.267 mi. Federal Aid Project 36S, east of Rogers, all foregoing in Barnes Co.

North Dakota—Apr. 30, by State Hy. Comn. and Comrs. Grand Forks Co., at Court House, Grand Forks, grading, clearing and grubbing, etc., 10.9 mi. Federal Aid Project 125, north of Grand Forks, 7.049 mi. Federal Aid Project 230A, 4.646 mi. Federal Aid Project 110, north Grand Forks Co. line; and 6.047 mi. Federal Aid Project 107, from Manvel northwest along the Great Northern R.R. tracks, all foregoing in Grand Forks Co.

North Dakota — May 4, by State Hy. Comn. and Comrs. Cass Co., Court House, Fargo, grading, etc., 0.217 mi. Federal Project 213 C, 2 mi. west of Buffalo.

Missouri—Apr. 24, by State Hy. Dept., Jefferson City, 27.492 mi. grading, 4.358 mi. concrete surfacing and 56.17 mi. gravel surfacing roads in various counties. B. H. Piepmeier, ch. engr.

Mo., St. Louis—May 5, by Bd. Pub. Serv., 208 City Hall, concrete curbing and surfacing 1,645 sq.yd. Alabama St. $8,500; granite curbing and rein.-con. surfacing 2,795 sq.yd. Christian St. $14,800, 3,910 sq. yd. Spring Ave. $18,600, 1,820 sq.yd. Veronica St. $10,500; concrete curbing and rein.-con. surfacing 640 sq.yd. Newport Court $3,440; brick or vibrolithic concrete surfacing 4,670 sq.yd. Shenandoah St. $24,400; granite curbing and asphaltic concrete surfacing 675 sq.yd. Berthold St. $4,700, 1,295 sq.yd. Christy Ave. $9,600, 1,685 sq.yd. Illinois St. $8,120, 840 sq.yd. Kuhs Pl. $6,120, 1,750 sq.yd. Ponce Ave. $8,560, 1,350 sq.yd. Louisiana St., 1,845 sq.yd. San Francisco St. $13,320; asphalt surfacing 1,475 sq.yd. Nebraska St. $5,900; concrete curbing and Willite surfacing 965 sq.yd. Gardenville St. $7,200; Willite surfacing 5,745 sq.yd. Shenandoah St. $23,920. W. W. Horner, city engr.

Ark., Texarkana — Apr. 20, by Comrs. Impvt. Dist. 32, in directors room, State Natl. Bank, grading and concrete or 2 in. asphalt on 4 in. concrete surfacing 7,906 sq.yd. Impvt. Dist. 32. J. W. Dawson, 425 State Natl. Bank Bldg., engr. Noted Mar. 5.

Tex., Alpine—Apr. 30, by A. L. White, engr. Brewster Co., grading and bridging 5.13 mi. State Highway 3, Federal Aid Project 378-E. $49,000. Noted Feb. 27.

Tex., Franklin—May 2, by L. A. Peterson, engr. Robertson Co., grading and bridging 4.14 mi. State Highway 6, Federal Aid Project 401-C. $25,000.

Tex., Jourdanton — Atascosa Co. taking bids 16,548 yd. 1 in. asphalt topping State Highway 2, Federal Aid Project 332, 18 ft. $28,000. W. F. Hutson, San Antonio, div. engr.

Tex., Sweetwater—May 5, by Nolan Co., grading, bridging and bituminous topping 7.6 mi. State Highway 70, Federal Aid Project 534-A, 18 ft. $160,000. J. A. Focht, Sweetwater, engr.

Tex., Wichita Falls—W. M. Priddy, Oil Exch. Bldg., taking bids paving streets in Westmoreland Park Addition. $40,000. Montgomery & Ward, 1016 City Natl. Bank Bldg., engrs.

Okla., Pawhuska — Apr. 23, by C. M. Hirt, city clk., grading and concrete surfacing 15,000 sq.yd. 8 blocks Dists. 34 and 35. $65,000. J. M. Buckley, Pawhuska, engr.

Idaho—Apr. 22, at office P. E. Oxley, Dist. Engr., 202 Pioneer Bldg., Lewiston, and opened by Commissioner Pub. Wks., improving 15.03 mi. North and South Highway, Federal Aid Project 89-A, Idaho Co., 68,311 cu.yd. earth and 4,265 cu.yd. solid rock excav., 83,101 sta.yds. overhaul, 39,678 cu.yd. crushed rock surface, 26,444 lbs. reinforcing, etc.

Nevada — Apr. 22, by Dept. Highways, Carson City, constructing 22.45 mi. Duuphy-East Co. Line Rd., Federal Aid Projects 92-C and D, Eureka Co., 167,000 cu.yd. unclassified excav., 69,697 sta.yd. overheaul, 16,870 cu.yd. load and screen crushed rock and 70,230 cu.yd. load and screen gravel, etc. G. W. Borden, Carson City, highway engr.

Nevada—Apr. 29, by State Hy. Comn., Carson City, improving 19.99 mi. Battle Mountain-East County Line Rd., Federal Aid Project 92-A and B, Lander Co., 89,500 cu.yd. excav., 24,700 cu.yd. load and screen, and 51,050 yd. mi. spread gravel, etc. G. W. Borden, Carson City, highway engr.

Nevada—Apr. 29, by State Hy. Comn., Carson City, gravel surfacing 5.08 mi. Fallon-Grimes Ranch Rd., Churchill Co. G. W. Borden, highway engr.

Washington — Apr. 28, by State Hy. Dept., Olympia, gravel or crushed rock surfacing 6.1 mi. State Rd. 9, Mason Co.; grading, and gravel or crushed rock surfacing 5.51 mi. Anatona-Asotin Highway, Asotin Co. and 2 mi. State Rd. 9, Jefferson Co.; concrete paving 6.06 mi. State Rd. 3, Whitman Co., 4.13 mi. State Rd. 3, Whitman Co., and 2.33 mi. State Rd. 9, Mason Co. J. W. Hoover, Olympia, engr.

California—Apr. 27, by State Hy. Comn., Sacramento, concrete widening and asphaltic concrete paving 4.4 mi. highway between Cypress Lawn Cemetery and Lawndale, San Mateo Co.; also grading and crushed gravel or stone surfacing 6.3 mi. highway between Leggett Valley and point 2 mi. north of Rock Creek, Mendocino Co. R. M. Morton, highway engr.

Calif., Hawthorne—City Trustees taking bids improving Gale Ave., 79,068 sq.ft. 1.5 in. Willite on 2 in. asphaltic concrete, 2,448 lin.ft. grading, 4,833 ft. curbing, 9,966 sq. ft. cement concrete guttering, etc. V. H. Staheli, city engr.

Calif., Maywood — City Trustees taking bids improving Slauson Ave., 602 cu.yd. excav., 54,300 sq.ft. 1.5 in. National on 4.5 in. asphaltic concrete paving, 4,100 sq.ft. gutters, 2,788 ft. 6- to 19-in. vitr. sewers, and Loma Vista Ave., 1,940 cu.yd. excav., 91,900 sq.ft. 1.5 in. National on 3.5 in. asphaltic concrete paving, 5,500 sq.ft. gutters, 4,600 ft. curb and 3,392 ft. vitr. sewers. V. Wood, 424 Amer. Bank Bldg., Los Angeles, engr.

Calif., San Francisco — May 6, by Bd. Pub. Wks., grading, sewers and retaining wall, etc., on Roosevelt Way between 14th and Clayton Sts. $90,000. M. M. O'Shaughnessy, city engr. Noted Mar. 26.

Nova Scotia — Apr. 20, by Chairman Highways Bd., Halifax, paving 6.56 mi. Shelburne Corner-Clyde River Rd., and 8.06 mi. Pulnico Head to Argyle Head Cross Rd.

Nova Scotia—Apr. 23, by Highway Bd., Halifax, paving 7.85 mi. Lockeport-Shelburne Rd., and 10.15 mi. Argyle Head Cross Rd.-Pleasant Lake Bridge.

Que., Montreal—Apr. 17, by L. Bauret, city clk., 4,600 tons asphalt and 400,000 gal. fuel oil, etc. H. A. Terreault, Dept. Pub. Wks., engr.

Ont., Ottawa—Apr. 17, by Suburban Rds. Comn., 279 Carling Ave., bituminous macadam surfacing about Richmond Rd. $25,000. A. K. Hay, 279 Carling Ave., engr.

Ont., Toronto—Apr. 21, by T. Foster, chn. Bd. Control, City Hall, asphalt paving Jersey and Laplant Aves., Leslie, Mountstephen and Nelson Sts.; asphalt surfacing Manning Ave. and Nassau St.; asphaltic concrete paving Harriett St. and Inglewood Dr.; Hillside brick block and asphaltic concrete paving 7th St.; Warrenite-bitulithic paving Hirons St.; macadamizing Harriett St.; grading Inglewood Dr.; concrete curbing Jersey Ave., Hirons and 7th Sts.; concrete sidewalks on Humewood and Tullis Drives, Old Orchard Grove, Orchard View, Joicey, Willowbank and Yonge Blvds., Mt. Pleasant, Jedburgh, and Regal Rds., Brock, Iona, Keystone, Snowden, Melrose, Moberly, Teddington Park Aves., Durie and Yonge Sts. R. C. Harris, city engr.

BIDS RECEIVED

Mass., Gardner — City, F. W. Proctor, supt. of Streets, Mar. 30, rein.-con. paving about 7,500 sq.yd. various streets, from P. J. Keating, Fitchburg. $24,646. Noted Mar. 26.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Apr. 12, granite block repaving 1st Ave., from J. Meehan & Son, 74 Cortlandt St., $227,[illegible]; asphalt block repaving 177th St., from Burnside Contg. Co., 270 Burnside Ave., $17,140. Noted Apr. 9.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Apr. 7, from C. D. Beckwith, 2875 Bway., sheet asphalt paving Hunt Ave. $14,999; from Interboro Asphalt Co., 2306 Creston Ave., bituminous concrete paving Van Nest Ave. $37,411, from Gaffney Constr. Co., 50 East 42nd St., Mosholu Parkway $25,992; from J. Gebert, grading, curbing, etc., Fteley Ave., $12,686 from I. F. Cavaluzzo, 1528 Walton Ave., Pelham Parkway $9,927, from Remo Realty Co., 645 East Tremont Ave., sewers in Benedict and Edison Aves. $5,200 and $3,385 respectively. Noted Apr. 2.

New Jersey—State Hy. Dept., Trenton, concrete paving, etc. 38,509 sq.yd. Route 15, Sect. 8, Cape May Co., from Interstate Eng. & Constr. Co., 918 Catherine St., Phila., Pa., $140,641. Noted Mar. 19.

Maryland—State Rds. Comn., Baltimore, sheet asphalt paving 1.47 mi. Contr. BC-49, Baltimore Co., from Amer. Paving & Contg. Co., Montebello Ave., Baltimore, $61,955; macadam resurfacing 7.8 mi. Contr. W-34, Washington Co., from E. C. Valentine, Rocky Ridge, $123,272; graveling 1.7 mi. Contr. HO-49, Howard Co., from E. R. P. Smith, Hyattsville, $21,835, 2.81 mi. Contr. CH-30, Charles Co., from H. S. Swann, LaPlata, $31,509; concrete paving 2.43 mi. Contr. B-71, Baltimore Co., from Gosnell, Russell & Co., Frederick, $49,337, 1.25 mi. Contr. T-21, Talbot Co., from Slacum, Brohawn & Woolford, Cambridge, $29,218, 1 mi. Contr. Wi-32, Wicomico Co., from P. D. Phillips & Bros., Salisbury, $24,777. Noted Mar. 26.

S. C., Kingstree—See "Bridges."

O., Akron—W. F. Peters, dir. Pub. Serv., Mar. 30, (**e. e. means engrs. est**), from Thorpe Constr. Co., 231 Society for Savings Bldg., Cleveland, grading, stone curbing, concrete sidewalks and vitr. brick paving, etc., 1,500 sq.yd. Robinette and Luedella Courts $10,344 e. e. $11,500, grading concrete sidewalks and vitr. brick paving, etc. 975 sq.yd. Courteney Pl. et al, $6,346 e. e. $6,600; from Bonner Co., 32 South College St., grading and laying concrete sidewalks on 13,500 sq.ft. Julien Ave., $6,019 e. e. $6,400, 6,100 sq.ft. Hudson Ave., $4,333 e. e. $5,500, grading, concrete guttering and concrete sidewalks etc. on 3,650 sq.ft. Bina Ave., $1,797 e. e. $2,500, 12,200 sq.ft. Sherman and Baird Sts., $5,750 e. e. $7,500; from T. E. McShaffrey Constr. Co., 173 South Forge St., grading, curbing, guttering and sheet asphalt paving 5,000 sq.yd. Bowery St., $33,003 e. e. $41,000, grading, stone curbing, sidewalks, vitr. brick guttering and sheet asphalt paving 860 sq.yd. North Case Ave., $5,638 e. e. $6,500, grading, stone curbing and vitr. brick paving, etc. 1,720 sq.yd. South Walnut St., $11,736 e. e. $13,500, 4,035 sq.yd. Avon St., $22,228 e. e. $25,000, grading, stone curbing, laying sidewalks and vitr. brick paving 11,525 sq.yd. North Case Ave., $72,159 e. e. $80,000, grading, paving, repaving and resurfacing Wooster Ave., 320 sq.yd. vitr. brick and 2,400 sq.yd. sheet asphalt, $7,388 e. e. $10,000; from McAlonan Bros., 506 Woodland Ave., grading, curbing, laying sidewalks and vitr. brick paving 990 sq.yd. Fairfield Ave., $9,325 e. e. $9,500; from Guran & Brancich, 429 Matthews St., grading and laying 4 in. concrete sidewalks on 13,800 sq.ft. Alexander St., $7,327 e. e. $8,500. Noted Mar. 12.

Michigan — State Hy. Dept. at office Comrs. Eaton Co., Charlotte, grading and concrete paving Federal Aid Project 100 D, from H. A. Crane, Alma, $101,828. Noted Mar. 19.

Michigan — State Hy. Dept., Lansing, grading and concrete paving 6.961 mi. State Trunk Line Rd. 27-21, Sanilac Co., from C. Milne, Saginaw, $135,501.

Wis., Appleton—E. L. Williams, city clk., Apr. 1, paving, etc. 64,000 sq.yd. various streets, from White Constr. Co., 68 Wisconsin St., Milwaukee, sheet asphalt at $2.27 and $2.37 per sq.yd., bitulithic at $2.64; from Lampert Constr. Co., 11 Algoma St., Oshkosh, rein.-con. $2.43, and vibrolithic concrete $2.57. Noted Mar. 26.

Wis., Milwaukee—R. E. Stoelting, comr. Dept. Pub. Wks., Mar. 31, paving with (**a**) vibrolithic concrete (**b**) one course concrete (**c**) asphaltic concrete, (**1**) Arthur Ave. (**2**) Finn Pl. (**3**) 44th and 45th Sts. (**4**) 14th and 15th Sts. (**5**) 2nd Ave. (**6**) 17th St., from Czerwinski Constr. Co., 775 Natl. Ave., (**a1**) $3,328 (**a5**) $5,377; from R. H. Gumz, 831 13th Ave., (**b1**) $3,613 (**a3**) $18,254 (**b5**) $5,637 (**a6**) $2,715; from White Constr. Co., 68 Wisconsin St., (**c1**) $3,931;

Streets and Roads (Continued)

from A. Retzlaff, 868 Island Ave., (a2) $2,336; from S and H Constr. Co., 92 Mason St., (a4) $15,169; from Kroening Constr. Co., 39th Ave. and Mitchell St., (b5) $5,377; from G. Hirth, 1309 7th St., (b6) $2,625. Noted Mar. 26.

Wis., Neenah—H. S. Zemlock, city clk., grading, concrete curbing, guttering and concrete paving 10,300 sq.yd. 1st, 2nd, Lincoln and Center Sts., from C. Johnson, Hayes Bldg., Oshkosh, $25,721. Noted Mar. 26.

Minn., St. Paul — H. W. Austin, city purch. agt., Mar. 31, from Thornton Bros., 318 Endicott Bldg., sheet asphalt paving 4,932 sq.yd. Goodrich Ave. $16,622, sheet asphalt paving 3,904 sq.yd. and 1,353 sq.yd. brick paving Como Ave. N. $24,233; from Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., sheet asphalt paving 16,373 sq.yd. Hewitt Ave., $55,654, from Fielding & Shepley, 216 West University Ave., 3,328 sq.yd. driveway in Como Park, $19,000. Noted Apr. 2.

Tex., Albany—Shackelford Co., grading and bridging 12.71 mi. State Highway 1, 24 ft., from E. Shelton, Temple, $60,879. Engrs. est. $88,700. Noted Feb. 26.

Tex., Sweetwater — Nolan Co., grading, bituminous on sledged stone and crushed stone rock surfacing 7.61 mi. State Highway 70, State Aid Project 534-A, Unit 1, from Abbott & Jenkins, Wilson Bldg., Dallas, $87,724. Engrs. est. $116,723.

Colorado—State Hy. Dept., Denver, Apr. 3, (*e. e. means engrs. est.*), paving 1.908 mi. State Project 904-B, Arapahoe Co., 18 ft., from R. L. Hanes, 617 East 1st Ave., Denver, cement concrete $37,698, e. e. $47,770, from Allied Contractors, 411 Majestic Bldg., Denver, asphalt $47,629; concrete paving 1.951 mi. Federal Aid Project 246-C, Pueblo Co., 18 ft., from Strange-McGuire, 401 Savings & Trust Bldg., Salt Lake City, Utah, $57,109, e. e. $63,332; gravel surfacing 2.833 mi. Federal Aid Project 270-B, Rio Grande Co., 16 ft., from San Luis Valley Constr. Co., Sanford, $15,471, e. e. $25,051.

Calif., Glendale—City Council improving Howard, Bway. and Geneva Sts., from Federal Paving Co., 609 Standard Oil Bldg., San Francisco, 76,200 sq.ft. asphaltic concrete paving at $0.165 per sq.ft., 80,400 sq.ft. grading $0.03, 3,817 sq.ft. sidewalks $0.15, 722 lin.ft. curbing $0.50, total $34,717. Engrs. est. $35,225. Noted Apr. 2.

Calif., San Diego — A. H. Wright, city clk., Mar. 30, 5 in. concrete paving, etc. 252,268 sq.ft. National Ave., from B. Noble, Spreckles Bldg., $41,682. Noted Mar. 19.

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks., Boston, concrete paving 14,595 ft. highway from Taunton to Berkley, to C. Bianci, Framingham, $154,630. Noted Mar. 26.

Mass., Methuen—Bd. Selectmen, paving Bway., to P. J. Holland, Lawrence, $73,000.

Mass., Roxbury (Boston P. O.)—Dept. Pub. Wks., City Hall, Boston, recut granite block paving various streets, here, to J. McCourt Co., 46 Wait St., Roxbury, $31,211. Noted Apr. 2.

Rhode Island—State Bd. Pub. Rds., State House, Providence, paving Contr. 2501, to New Haven Rd. Constr. Co., New Haven, Conn., $182,370; Contr. 2502, to A. D. Bridges, Hazardville, Conn., $57,371; Contr. 2503, to T. E. Horne, Millbury, $62,071. Noted Apr. 9.

Conn., New Haven—E. S. Nettleton, city engr., City Hall, asphalt on concrete paving about 1,800 ft. Wall St., to Connecticut Natl. Paving Co., Inc., 173 Orange St., about $25,000; Church and Meadow Sts., to C. W. Blakeslee & Son, 58 Waverly St., to exceed $25,000.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., grading, curbing and sidewalks on Sagamore St., to C. L. Strada, $17,553; sheet asphalt paving Holland Ave., to C. D. Beckwith, 2875 Bway., $23,369, and Sheridan Ave. to Gaffney Constr. Co., 50 East 42nd St., $26,371. Noted Apr. 9.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., repaving East 124th St., to Gaffney Constr. Co., 50 East 42nd St., $7,090; granite block repaving West 124th St., to Asphalt Constr. Co., 208 Bway., $22,689; laying and relaying sidewalks when and where directed in 1925, to J. Meehan & Sons, 74 Cortlandt St., $16,981. Noted Apr. 9.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and concrete paving Hylan Blvd. Contr. 4, to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $259,871. Noted Apr. 9.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, granite block repaving Bway., to Richmond Paving Co., 48 Hyland Blvd., Rosebank, $19,239. Noted Mar. 19.

Pa., New Castle—Repaving Croton Ave., to Woods & Golder, New Castle, $45,050. Engrs. est. $50,000.

Fla., Davenport—Asphalt paving in Poinsetta Hills, to L. B. McLeod Constr. Co., Tampa, $30,000.

Fla., Largo — City, J. C. English, city mgr., constructing various streets, to J. B. Crary Constr. Co., Atlanta, Ga., $400,000.

Alabama—State Hy. Dept., Montgomery, limestone rock asphalt surfacing 6 mi. Juikins Ferry-Wetumka Rd., 18 ft., Elmore Co., to Uvalde Paving Co., Insurance Bldg., Dallas, Tex., $35,718, engrs. est. $36,000; rawhide type surfacing 4 mi. middle section above road, 18 ft., to Morgan Hill Paving Co., Woodward Bldg., Birmingham, $27,720, engrs. est. $28,000; asphaltic concrete surfacing 5 mi. above road, 18 ft., to S. E. Finley, 212 West North Ave., Atlanta, Ga., $28,177, engrs. est. $28,200. Noted Apr. 9.

Miss., Coffeeville—Yalobusha Co., grading and gravel surfacing 8.756 mi. Federal Aid Project 161-C, 18 ft., to W. A. Morrison, Coffeeville, $70,571. Noted Mar. 19.

Miss., Louisville—Grading, curbing and 2⅞ in. brick on 4 in. concrete surfacing 15,000 sq.yd. various streets, to Merrill Eng. Co., Jackson. Noted Mar. 12.

La., Monroe—Grading, gravel surfacing and bridging Eros-Cadeville Rd., to N. N. George Co., Shreveport. Engrs. est. $75,000.

Tenn., Maryville — Blount Co., grading and macadam surfacing various roads, to C. M. French Constr. Co., Maryville, approximately $392,600.

Tenn., Nashville—Will grade and macadam surface portions of 24th, 26th and 32nd Aves., also rock asphalt on macadam surface Meridian St. from Foster to Wilburn Aves., and 9th Ave. from Jefferson to Buchannon Sts., by day labor. W. W. Southgate, city engr.

O., Canton — Bd. Control, (*e. e. means engrs est.*) to R. E. Cash Asphalt Paving Co., Cincinnati, brick paving Ross Ave. N. E. $25,022, e. e. $26,000, sheet asphalt paving Plain Ave. N. E. $35,853, e. e. $40,000, improving 1.4 mi. Belden Ave. $145,162, e. e. $150,000, Garfield Ave. N. W. $32,204, e. e. $35,000, 22nd St. $67,361, e. e. $75,000; to Wise Bros., 1132 11th St. N. W., grading, curbing, widening and sheet asphalt paving Cleveland Ave. N. W. $75,660; e. e. $75,000. Noted Mar. 19.

O., Cleveland—For 92,300 sq.ft. cement sidewalks in Southerly Dist., to J. C. Wenrick, $25,727, 112,600 sq.ft. in Northerly Dist., to P. H. De Santis & Co., 8019 Hough Ave. $32,061, 70,500 sq.ft. in Westerly Dist., to Rieley Bros., The Arcade $19,780, 108,400 sq.ft. in West Park Dist. to M. P. Platten, Engineers Bldg. $29,665; 482,500 sq.ft. stone sidewalks in above districts, to Ohio Quarries Co., Union Trust Bldg., $125,712; improving Bancroft Ave., 1,080 cu.yd. excav., 2,150 sq.yd. brick paving, 1,600 lin.ft. stone curbing and 1,650 lin.ft. 4 in. drain tile gutter, to Garland Bros. 5806 Franklin Ave., $12,612, West 136th and 137th Sts., 3,720 cu.yd. excav., 7,605 sq.yd. brick on concrete paving, 5,060 ft. stone curb and 5,400 lin.ft. 4 in. drain tile gutter, to Roehl Bros., 7002 Denison Ave., $44,997, East 116th St., Penhurst and Whitcomb Aves., 5,080 cu.yd. excav., 7,845 sq.yd. brick paving, 4,270 lin.ft. stone curbing, 5,150 lin.ft. 4 in. drain tile gutter, to H. G. Herring, Pavers Exch., $42,336, Barrington and Othello Aves., Woodworth Rd. and East 156th St., 8,440 sq.yd. vitr. brick paving, 5,120 lin.ft. stone curbing, 5,880 lin.ft. 4 in. drain tile gutter, 5,640 cu.yd. earth excav., to Gould & Maybach, 16,311 Saranec Rd., $55,956, Carnegie Ave., 29,000 sq.yd. sheet asphalt, 9,200 lin.ft. stone curbing, 9,500 lin.ft. 4 in. drain tile gutter, 16,500 cu.yd. earth excav., also Henninger Rd., East 113th, East 147th, West 22nd and West 50th Sts., 22,490 sq.yd. vitr. brick, 4,910 sq.yd. sheet asphalt, 18,570 lin.ft. stone curbing, 19,800 lin.ft. 4 in. drain tile gutter, 14,850 cu.yd. earth excav., to Cleveland Trinidad Paving Co., The Arcade, $139,876 and $147,576 respectively. Noted Mar. 19.

O., Cincinnati — Hamilton Co., 200,000 gal. Tar Grade 1, to Hamilton Co. Repair Dept., to Barrett Coal Tar Co., 517 Carr St., $23,840. Engrs. est. $24,000. Noted Apr. 9.

O., Columbus—Bituminous stone macadam paving 1,016 ft. Hope Ave., and 1,336 ft. Haines Ave., both 25 ft., to Cleveland Trinidad Paving Co., Grand Theatre Bldg., $11,600 and $15,000.

O., East Cleveland (Cleveland P. O.)—M. Lees, 2988 Lemberton Rd., Cleveland Heights, sheet asphalt paving Nelecrest, Nealaview and Neledale Rds., to Cuyahoga Asphalt Paving Co., The Arcade, Cleveland, $45,000.

O., Idlewood (Cleveland Heights P. O.)—Improving Washington Blvd., Bushnell, Cranston, East Scarborough, Eaton, Edgarton, Fenwick, Lonsdale, Vernon and Westwood Rds., 49,500 sq.yd. sheet asphalt, 24,400 lin.ft. sand stone curbing, 28,150 lin.ft. 4 in. drain tile gutter, 17,600 cu.yd. earth excav., to Cleveland Trinidad Paving Co., The Arcade, Cleveland. $254,590, East Meadowbrook Blvd., Channing and Saybrook Rds., 14,700 sq.yd. sheet asphalt, 7,850 lin.ft. stone curbing, 8,650 lin.ft. 4 in. drain tile gutter, 6,900 cu.yd. earth excav., to Bentley Bros., 3030 Euclid Ave., Cleveland, $83,540; grading, curbing and paving Meadowbrook Blvd., Fenwick 1, Traymore and Tyndall Rds., to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $149,976. Noted Apr. 9.

O., Lisbon—Columbiana Co., grading and limestone surfacing East Liverpool-East Palestine Rd., to Allison-Harris Co., East Liverpool, $45,049. Noted Feb. 26.

O., Niles—Brick paving Butler Rd., to J. DeJute, Niles, $27,531. Engrs. est. $30,000.

O., Salem — Asphaltic concrete paving Cleveland Ave., and brick paving Pershing Ave., to Kelly & Meyer Constr. Co., Youngstown. $25,893 and $28,357 respectively. Engrs. est. $28,000 and $30,000 respectively. Noted Apr. 9.

Michigan — State Hy. Dept., Lansing, grading and concrete paving 5.917 mi. Project 14-30, Gratiot Co., to A. Jeffrey, Saginaw, $147,912; also 5.002 mi. Project 46-27, Gratiot Co., to T. NcNally, Saginaw, $107,620.

Michigan — State Hy. Dept., Lansing, paving Linn Lake Church and Clarendon Butler Rds., Calhoun Co. to Hayes & Disbrow, Hartford, $7,428 and $10,083 respectively; 8.6 mi. County Rd. 18, Calhoun Co., to Wise Constr. Co., Watervliet, $49,228.

Michigan — State Hy. Dept. at office Comrs. Ingham Co., Mason, grading and gravel surfacing Homer Rd. 2, to Graham & Rood, Mason, $6,444; Aurelius Rd. 1, to C. A. Diehl, Dansville, $4,815, Game Farm Rd. and Meredian to Maurer Bros., Lansing, $24,979; Meredian Rd. 4 and Williamston Center 3, to Sadler & Rector, Williamston, $23,730. Noted Mar. 19.

Mich., Detroit — To Otis Cement Constr. Co., 806 Hammond Bldg. grading and one course ocncrete paving 4,500 sq.yd. Alley 2126 $9,128, 1,430 sq.yd. Alley 2130 $3,597; to R. J. Powelson Co., 6415 Iroquois Ave., 965 sq.yd. Alley 2135 $2,255, 1,430 sq.yd. Alley 2137 $3,558; to Bishop & Weir, 1305 Lafayette Bldg., 3,580 sq.yd. Alley 2127 $8,728, 1,710 sq.yd. Alley 2128 $4,068, 1,620 sq.yd. Alley 2129 $4,038, 1,270 sq.yd. Alley 2131 $3,105, 1,120 sq.yd. Alley 2132 $2,770, Alley 2133 $2,692, 1,030 sq.yd. Alley 2134 $2,631, 490 sq.yd. Alley 2136 $1,272.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 9, Sects. 37, 38, 40, 41 and 41-D, Fulton and McDonough Counties, to Jansen & Schaefer, 212 North Cap St., Pekin, $376,874. Noted Apr. 2.

Ill., Geneva—City Clerk, rein.-con. surfacing, curbing, etc. 17,300 sq.yd. Anderson Blvd., to G. Welch, Beloit, Wis. Noted Mar. 26.

Ill., Rockford—Winnebago Co., grading, bridging, etc., 6.25 mi. Durand-Pecatonica Rd., 30 ft., to Anderson Bros., Rockford, $38,990; widening and concrete surfacing 2 mi. Grant Highway, 14 ft., to G. E. Welch, Beloit, Wis., approximately $40,000.

Ill., Monmouth — Rd. & Bridge Comn. Warren Co. 500,000 gal. road oil heated to 120 degrees F. on various roads, to Monarch Road Oil Co., Peoria Life Bldg., Peoria, approximately $30,000.

Wis., Eau Claire—O. E. Olen, city clk., improving various streets, 30,879 sq.yd. concrete paving, 13,279 ft. concrete curbing, 10,775 cu.yd. excav., etc., to A. Larson & Co., 419 South Barstow St., $66,498. Noted Mar. 26.

Wis., Waupun—Bd. Pub. Wks., 16,640 sq.yd. vibrolithic concrete paving, etc., various streets, to Schreiber & Waterworth, Randolph, $53,653. Noted Apr. 2.

Ia., Marshalltown—Concrete curbing and 8 in. rein.-con. surfacing about 16,000 sq.yd. North 3rd Ave., to A. Carlson, Woodbury Bldg., $40,301. Noted Mar. 26.

Minn., Roseau — S. G. Bertilrud, and Roseau Co., to H. Mesenbrick, Roseau, improving County Project 2501, 24,143 cu.yd. excav., etc., $17,313, and gravel surfacing 7,603 cu.yd. to 1 mi. point, 33,085 cu.yd. mi. gravel over 1 mi. haul $9,923.

North Dakota — State Hy. Comn. and Comrs. Mountrail Co., at Stanley, to Hall & Booth, Stanley, grading 6.6 mi. Federal Aid Project 243-B, South of Stanley, 46,582 cu.yd. earth and 700 cu.yd. rock excav., etc. $19,288, 6 mi. Federal Aid Project 258-B, north of Lostwood, 52,113 cu.yd. earth and 900 cu.yd. rock excav., etc. $17,-

Streets and Roads (Cont.)

696, 7 mi. Federal Aid Project 277, south of Parshall, 34,311 cu.yd. earth and 1,050 cu.yd. rock excav., etc. $18,142. Noted Feb. 26.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Bridges Asphalt Paving Co., Buder Bldg., asphalt paving 6,815 sq.yd. 18th St. $34,080, granite curbing and asphaltic concrete paving 2,030 sq.yd. Concord Pl. $11,971, 2,940 sq.yd. Robert Ave. $16,308, concrete curbing and asphaltic concrete surfacing 615 sq.yd. Pennsylvania Ave. $5,116; to Granite Bituminous Paving Co., Railway Exch. Bldg., Warrenite bitulithic paving 4,959 sq.yd. Belt Ave. $22,115, 10,450 sq.yd. De Tonty St. $58,663, Lake Ave. $17,901; to Blackburn-Crean Constr. Co., Chouteau Trust Bldg., concrete curbing and concrete paving 1,515 sq.yd. Frederick St. $7,509; from Eyermann Constr. Co., 1216 South Grand Blvd., granite curbing and concrete paving 4,135 sq.yd. Nagle Ave. $21,718; to Skrainka Constr. Co., Security Bldg., granite curbing and brick on concrete surfacing 2,040 sq.yd. West Park Ave. $12,289; to Brighton Constr. Co., 211 Josephine Bldg., Warrenite bitulithic paving 4,200 sq.yd. San Francisco Ave. $20,559. Noted Apr. 2.

Tex., El Paso—El Paso Co., paving 15.62 mi. State Highway 1, Federal Aid Project 439-E, 18 ft., to S. D. Mangum Co., El Paso, $315,112. Noted Apr. 9.

Tex., Wichita Falls — Willite on black base paving 21 blocks 6 streets, to Plains Paving Co., Staley Bldg., $45,686.

Okla., Tulsa—To Tibbets & Pleasant, 209 North Nogales St., grading and sheet asphalt surfacing 6,078 sq.yd. Impvt. Dist. 624, $33,388, engrs. est. $35,000; to Standard Paving Co., 1742 East 6th St., 4,887 sq.yd. Impvt. Dists. 619 and 620, $26,370, engrs. est. $28,419, and 7,485 sq.yd. Impvt. Dists. 616 and 617, $36,240, engrs. est. $38,310; to H. L. Cannady, 1122 South Lewis St., 4,384 sq.yd. Impvt. Dist. 622, $26,106, engrs. est. $27,894, 6,980 sq.yd. Impvt. Dists. 615-618, $30,049, engrs. est. $31,000, and grading and concrete surfacing 5,665 sq.yd. Impvt. Dist. 621, $25,554, engrs. est. $26,419.

Nevada — State Hy. Dept., Carson City, constructing 25.30 mi. road from Winnemucca to Stone House Federal Aid Project 76- c, 82- B. C and D. Humboldt Co., 122,900 cu.yd. excav., 34,410 sta.yd. overhaul, 24.29 mi. prepare sub grade and shoulders, 33,260 cu.yd. load and screen gravel, 77,900 yd. mi. haul and 32,760 cu.yd. spread gravel, etc., to J. F. Murphy, 6510 Wilshire St., Los Angeles, Calif., $162,042. Noted Mar. 19.

California—State Hy. Comn., Sacramento, grading and surfacing 9.3 mi. highway between Imperial and Brawley, Imperial Co., to H. G. Fenton, Dewey St., San Diego, basis of corrugated metal pipe and gravel surface. $97,914. Engrs. est. $135,235. Noted Mar. 26.

Calif., Hermosa Beach—Curbing, guttering, sidewalks and national on 4 in. asphaltic concrete paving, etc. Hermosa Ave., to B. C. Nichols, 1216 Manhattan Ave., Manhattan Beach, $57,195. Noted Mar. 19.

Calif., Los Angeles — Grading and concrete paving, etc., 208,037 sq.ft. Nordhoff St. between Brand Blvd. and Balboa Ave., to Chalmers & Ford, H. W. Hellman Bldg., $49,467; concrete paving, curbing, etc., Washington St. between Alameda St. and Central Ave., to T. W. Oglesby, 423 Edgewood Rd., Santa Ana, $60,715. Noted Apr. 2.

Calif., Santa Ana—Orange Co., grading and gravel surfacing approximately 6.5 mi. Ball Rd., Walker and Glenn Aves., to B. R. Ford, 407 West 17th St., $29,025.

Calif., Westmoreland—Imperial Co. (El Centro), constructing 2,285 ft. highway through here, to Pioneer Transfer Co., Calexico, $35,082.

Ont., Hamilton—Wentworth Co. will expend $44,825 for maintenance of gravel and macadam roads. Work will be done by day labor under supervision of H. A. Lumsden, co. engr.

Ont., Smiths Falls—Lanark Co. will construct tar and oil, 28 mi. various roads, and maintenance work, by day labor. $75,000 and $30,000 respectively. S. D. Code, Smiths Falls, engr.

Ont., Woodstock—Oxford Co. voted $80,000 bonds for road maintenance. Work will be done by day labor. F. J. Ure & Sons, Woodstock, engrs.

Buildings—Industrial

PROPOSED WORK

Mass., Beverly—REPAIR and SERVICE GARAGE—S. Glazer, 51 Hawthorne St., plans one story, concrete, Wallace and Rantoul Sts. $50,000. Engineer and architect not selected.

Mass., Medford—REPAIR and SERVICE GARAGE—Boston Elevated Ry. Co., Park Sq., Boston, plans 1 story, 112 x 125 ft., rein.-con., brick and steel, Salem St. $120,000. Private plans.

Mass., Reading—PLANT—Town plans improvement and addition to electric light plant, supplying Reading, North Reading, Wilmington and Lynnfield Centre. $135,000. Engineer and architect not selected.

Mass., Shrewsbury—PLANT—Commonwealth Ice Co. plans rebuilding plant recently destroyed by fire. $50,000. Engineer and architect not selected.

N. C., Kinston—PLANT—L. B. Jenkins Tobacco Co. plans large plant. $60,000.

N. C., Thomasville—FACTORY—Thomasville Furniture Co. plans to double capacity furniture factory, incl. drying house, new boiler room and electric plants. $60,000. R. L. Lambeth & J. R. Meyers, principal owners.

Fla., St. Petersburg—FACTORY—Ground Bros. Mfg. Co., plans fireproof factory, 24th St. and 7th Ave. $100,000.

O., Cleveland—FACTORY—Sabin Machine Co., H. B. Sabin, pres., 6536 Carnegie Ave., soon lets contract 3 story and basement, 45 x 90 ft., brick and steel addition. $40,000. Private plans.

O., Lorain—FACTORY—R. C. Products Co., W. H. Evers, pres., Engineers Bldg., Cleveland, having plans prepared 1 story, brick factory, here. $50,000. Private plans.

Ill., Chicago — PRINTING PLANT — World Book Co., 2130 Prairie Ave., having sketches made 10 story and basement, 50 x 178 ft. printing plant, 2120 Prairie Ave.

BIDS DESIRED

Mass., Cambridge (Boston P. O.)—REPAIR and SERVICE GARAGE—Dunster Realty Co., c/o. E. B. Stratton, archt., 25 Arch St., Boston, taking bids 1 story, 70 x 120 ft., rein.-con. and brick addition, Mt. Auburn and Boylston Sts. $60,000.

Mass., Dorchester (Boston P. O.)—REPAIR and SERVICE GARAGE—J. Waldman, 38 Hobson St., Brighton, taking bids 1 story, 150 x 160 ft., rein.-con. and brick, Livingstone St. $100,000. S. S. Eisenberg, 46 Cornhill St., Boston, archt.

Mass., Rockport — PLANT — Cape Ann Tool Co., Pigeon Cove, taking bids 2 story and basement, rein.-con. and brick addition. J. O. DeWolf, 45 Bromfield St., Boston, archt. and engr.

R. I., Woonsocket—MILL—Florence Dye Wks., 53 South Main St., taking bids 2 story, 125 x 200 ft., brick addition, plain foundation. $40,000. J. A. Nadeau, 629 Social St., archt.

Conn., Buckland—MILL—E. E. Hilliard Co., taking bids brick carding, spinning and finishing addition. $40,000 or more. C. T. Main, 200 Devonshire St., Boston, Mass., archt. and engr.

N. Y., Long Island City—HOUSING STATION—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., Apr. 7, housing station, 62nd Rd. and 94th St., from Werner Mitchell, Inc., 1 De Kalb Ave., Brooklyn, $71,394. Noted Apr. 2.

N. Y., New York — POWER HOUSE — Apr. 24, by E. J. O'Malley, comr. Pub. Markets, Municipal Bldg., refrigeration power house, Exterior St. and East 151st St.

N. Y., New York—FACTORY—Shroder & Koppel, (owner and contractor), 347 Madison Ave., will build 6 story, 16 x 93 ft. factory, 237 East 37th St. Work will be done by separate contracts.

N. J., Trenton — SUBSTATION — Pub. Service Corp., 80 Park Pl., will build substation. $2,000,000. Work will be done by separate contract. T. N. McCarter, pres.

Miss., Centreville—SAW MILLS—Reed Lumber Co. taking bids 2 saw mills, each 25,000 ft. per 10 hours capacity, with standard steam dry kilns, engines, boilers, etc., new or second hand equipment, incl. fast fee planing machine, blower, conveyors, pumps, etc. Private plans.

O., Cleveland—MACHINE SHOP—Star Machine & Tool Co., J. J. Schuger, pres., 6505 Carnegie Ave., taking bids 1 story, 93 x 100 ft., brick and steel, East 93rd St. $40,000. Private plans.

Wis., Neoplt — SAWMILL — May 8, by Menominee Indian Mills, E. A. Allen. supt., 2 story, 66 x 95 ft., rein.-con., plain foundation, Indian Reservation. Private plans.

Tex., Galveston — LAUNDRY — Model Laundry Co., c/o W. A. Johnson, pres., 2727 J St., Galveston, taing bids 2 story, 80 x 120 ft., rein.-con., brick and steel, plain foundation, here. $60,000. Engineer and architect not announced.

CONTRACTS AWARDED

Me., Camden—PLANT—Seabright Woven Felt Co., c/o F. E. Page, 68 Essex St., Boston, Mass., 2 story and basement, brick and timber, plain foundation, to Brown & Berry, Inc., 22 Monument Sq., Portland. Archts. est. $100,000. Noted Mar. 19.

Mass., Fall River — PLANT — Sanitary Laundry Corp., 484 County St., 2 story, brick and steel, County St., to M. S. S. Flores, 302 Oliver St. Archts. est. $40,000.

Mass., New Bedford—WAREHOUSE—New Bedford Boiler & Machine Co., 42 Frost St., 4 story, 60 x 165 ft., brick, Water and Commercial Sts., to W. Young, 122 Union St.. Archts. est. $150,000. Noted Apr. 9.

Mass., North Beverly (mail Beverly)—REPAIR and SERVICE GARAGE—H. H. Whitman, 2½ story, rein.-con., tile and stucco, Grove St., to W. H. Cann, 232 Rantoul St. Beverly. Archts. est. $50,000. Noted Apr. 9.

Mass., Quincy—REPAIR and SERVICE GARAGE—R. P. Harriman, 560 Adams St., will build one story, 50 x 100 ft. with 35 x 50 ft. ell, brick and concrete, Adams St., by day labor. $40,000. Clark, Batty & Gallegher, 13 Temple St., archts.

Mass., Salem—REPAIR and SERVICE GARAGE—Wetmore & Simons, 118 Washington St., 1 story, rein.-con., brick and steel, Washington and Derby Sts., to E. H. Porter, 13 Wallis St., Peabody. Archts. est. $50,000.

Mass., Somerville—REPAIR and SERVICE GARAGE—M. Cota, 14 Mansfield St., one story, 60 x 100 ft., concrete, to Frankiki Bros., 26 Rockland Ave., Medford. Archts. est. $40,000. Noted Apr. 9.

Mass., Weston — PLANT, etc. — Fuelite Natural Gas Co. of New England, 1441 Beacon St., Brookline, will build 2 story, 50 x 100 ft., brick factory, office and garage, here, by day labor. $40,000. Private plans.

R. I., Providence—TURBINE—Narragansett Electric Co., Turks Head Bldg., 1 and 2 story, about 65 x 95 ft., brick and stone, to S. C. Sperry Co., 293 Main St., Cambridge, Mass. Noted Aug. 28.

Conn., New Haven — BOILER HOUSE, etc.—Amer. Steel & Wire Co., 237 Fairmont Ave., altering brick, steel and concrete boiler house, extending sidewalks, building coal bunkers with steel supports, coal chutes and conveyors, to Standard Constr. Co., 153 Court St. Archts. est. $45,000.

Conn., Waterbury—INDUSTRIAL—Bristol Co., 1 story, 118 x 123 ft., brick and steel, to Immick Co., State St., Meriden. $80,000.

N. J., Trenton—WAREHOUSE—Trenton Potteries, 4 story, 50 x 101 ft. warehouse, to S. W. Mather & Sons, Greenwood Ave., $50,000.

N. C., Raleigh—WAREHOUSE—E. C. Hillyer, Hillsboro, large brick warehouse, Hargett St., to J. E. Beaman, New Odd Fellows Bldg. $54,000.

O., Cleveland — PRESS — Fisher Ohio Body Co., East 140th St. and Coit Rd., Cleveland, and General Motors Bldg., Detroit, Mich., 1 story, 82 x 210 ft. press building with 64 x 112 ft. wing and 33 x 180 ft train shed, brick and steel, East 140th St. and Coit Rd., to J. A. Utley, 892 Boston Bldg., Detroit, Mich. Archts. est. $150,000. Private plans.

O., Cleveland—FACTORY and STORAGE—Green, Haas & Schwartz Co., E. Hass, pres., 1967 East 57th St., 2 story, 50 x 50 ft., brick and steel factory alterations and storage building, Berea Rd., to Uhl-Jaster Co., 1900 Euclid Bldg. Archts. est. $60,000. Noted Apr. 9.

O., Cleveland—FACTORY, etc.—G. L. Williams Co., G. L. Williams, pres. and treas., 621 Johnson Ave., 1 and 2 story, 50 x 125 ft. and 40 x 70 ft., brick and steel factory, office and warehouse, Train Ave., to McKee Constr. Co., 4228 West 35th St. Archts. est. $70,000. Noted Apr. 2.

O., Columbus—FACTORY, etc.—Ralston Steel Car Co., East Columbus St., 60 x 180 ft., brick and tile wheel and axle building, 63 x 105 ft. corrugate iron extension to main building and 56 x 70 ft. storage building, saw tooth construction, to L. L. LeVegue Co., Columbus, about $55,000. Noted Mar.

O., Mt. Union (Sta. Alliance)—PRINTING PLANT, etc.—McCaskey Register Co., Alliance, 3 story, 120 x 220 ft. plant, 3 story 46 x 55 ft. boiler house and 3 story 150 x 300 ft. office building, rein.-con., brick and steel, to W. F. Thompson & Con., Chester-Twelfth Bldg., Cleveland. Archts. est. $300,000. Noted Jan. 15.

Mich., Detroit—FACTORY—Fisher Body Corp., General Motors Bldg., 1 story, 60 x 500 ft., concrete, brick and steel, plain foundation, St. Antoine St., to J. Utley Co., 718 Penobscot Bldg. Archts. est. $50,000.

Ill., Chicago—FACTORY—B. H. Bisbee, 175 West Jackson Blvd., general contract 1 story, 100 x 125 ft., rein.-con., brick and stone, plain foundation, 1901 Carrol Ave., to H. H. Stoddard Co., 60 West Washington St., $43,689. Archts. est. $45,000.

Ill., Chicago—FACTORY—Western News Co., 25 East Austin Ave., general contract 4 story and basement, 80 x 100 ft., rein.-con., brick and terra cotta, plain foundation, East Austin Ave., to Turner Constr.

Buildings—Industrial (Continued)

Co., 6 North Michigan Ave. Archts. est. $150,000.

Ill., Murphysboro — FACTORY — Brown Shoe Co., 1610 Washington Ave., St. Louis, Mo., rebuilding 100 x 200 ft., brick and concrete factory, here, recently destroyed by tornado, to Dickie Constr. Co., Syndicate Trust Bldg., St. Louis, Mo. Noted Apr. 9.

Ill., Murphysboro—ICE PLANT—R. and E. Stecher, 3 story, 85 x 135 ft., brick and concrete, here, to E. Friens, Murphysboro. Archts. est. $50,000.

Wis., Cobb—FACTORY—Cobb Canning Co. will build 2 story, 50 x 65 ft., brick and rein.-con. factory, plain foundation, by day labor. $40,000. Private plans. Noted Mar. 5.

Wis., Oconomowoc — FACTORY — Oconomowoc Canning Co., 1 story, 90 x 110 ft. and 28 x 30 ft. brick and timber addition, plain foundation, to F. A. Felhofer, 700 East 4th St., Marshfield. Archts. est. $40,000.

Wis., Wisconsin Rapids — FACTORY — Prentiss-Wabers Mfg. Co., 1 story, 52 x 250 ft., brick and timber factory, plain foundation, to F. J. Henry, Old Natl. Bank Bldg. Archts. est. to exceed $40,000.

Kan., Topeka—FLOUR MILL—Topeka Flour Mills Co., 126 North Jefferson St., eight 18 x 90 ft., rein.-con. storage tanks, conveyors, etc., to Industrial Eng. Co., Kansas City, Mo. Engrs. est. $40,000.

Mont., Troy — ROUNDHOUSE, etc. — Great Northern Ry. Co., Railway Bldg., St. Paul, Minn., general contract 18 stall roundhouse, brick and timber, 38 x 58 ft. brick power house, brick storehouse, water tank, turntable, cinder pits, etc., here, to S. J. Siverson, 3100 43rd Ave. S., Minneapolis.

Tex., New Braunfels—POWER PLANT —Comal Power Co. of San Antonio, a subsidiary of San Antonio Pub. Serv. Co., 201 North St. Marys St., San Antonio, giant electric power plant on Guadalupe River, near here, and a transmission line to San Antonio, to U. G. I. Contg. Co., Broad and Arch Sts., Phila., Pa., about $3,000,000.

Buildings—Commercial

PROPOSED WORK

Mass., Boston—HOME—Home for Aged Women, c/o Coolidge, Shepley, Bulfinch & Abbott, archts., Ames Bldg., having plans prepared 4 story and basement, plain foundation, Revere St. $200,000. Richardson & Gay, 220 Devonshire St., consult. engrs. for heating, ventilating and electrical systems. This corrects report in Feb. 26 issue.

Mass., Lynn — APARTMENT — J. H. Shabby, c/o P. Varney, archt., 25 Exchange St., having preliminary plans prepared 3 story and basement, brick, Highland Ave. and Essex St. $150,000.

Mass., Malden—STORE and OFFICE—J. Ruderman & Son, 57 Ferry St., having plans prepared by C. F. Springell, 50 Concord St., 2 story and basement, 45 x 140 ft., rein.-con. and brick, Ferry St. $150,000.

Mass., Pittsfield—STORE—England Bros. Dept. Store, North St., had revised plans prepared by G. E. Haynes, 184 North St. 3 story and basement, 50 x 100 ft., brick addition. $150,000. Former bids rejected. Noted Jan. 22.

Mass., Quincy (Boston P. O.) — THEATRE and STORE—Natl. Theatre Co., c/o Tuck & Co., 636 Warren St., Roxbury, having revised plans prepared 2 story and basement, 60 x 200 ft., rein.-con., brick and steel, plain foundation, Hancock St. $200,000. Former bids rejected. Noted Feb. 26.

Conn., Hartford — FIRE HEADQUARTERS—City plans addition to present fire department headquarters, Pearl St. $265,000.

Conn., Hartford—HALL—Labor Temple Assn., Inc., having plans prepared by J. F. Rutledge, 70 Harold St., 3 story, 1st floor, 50 x 200 ft., 2nd and 3rd floors, 50 x 95 ft., etc., brick and stone, Park St. $150,000.

Conn., New Haven—THEATRE—Owner, c/o H. S. Cannici, archt., 85 Church St., having plans prepared 2 story, 80 x 150 ft., brick and steel, Whalley Ave. $150,000 or more.

N. Y., Alden—PENITENTIARY—Erie Co., City Hall, Buffalo, having plans prepared by W. J. Bearadsley, 49 Market St., Poughkeepsie, penitentiary addition, here. $260,000.

N. Y., Brooklyn—APARTMENT—D. S. Lang, archt., 110 West 40th St., New York City, preparing plans 6 story, brick, steel and stone, plain foundation, Kings Highway. Owners name withheld.

N. Y., New York—APARTMENT—D. S. Lang, archt. and engr., 110 West 34th St., preparing plans 6 story, brick, steel and stone, plain foundation, 165th St. and Audubon Ave. $250,000. Owner's name withheld.

N. Y., New York — APARTMENT — A. Brisbane, 238 William St., having plans prepared by E. Roth, archt. and engr., 119 West 40th St., 22 story, brick, steel and stone, plain foundation, 54th St. and 6th Ave.

N. Y., New York — APARTMENT — Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., preparing plans 6 story, brick, steel and stone, plain foundation, Fordham Rd. $350,000. Owners name withheld.

N. Y., New York—HOTEL—A. Brisbane, 238 William St., having plans prepared by E. Roth, archt. and engr., 119 West 40th St., 5 story, 100 x 100 ft., brick, steel and stone, plain foundation, 102nd St. and 2nd Ave.

N. Y., New York — OFFICE — Lee and J. J. Shubert, 223 West 44th St., having plans prepared by H. J. Krapp, archt. and engr., 1650 Bway., 14 story, brick, steel and stone, plain foundation, 236 West 44th St.

N. Y., Williamsville—DANCE HALL—A. Funk, 93 Miller Ave., having plans prepared dance hall. $170,000. Engineer and architects names withheld.

Pa., Verona—BANK—First Natl. Bank having plans prepared by S. A. Miller, 511 C Ave., Brooklyn, New York, 2½ story and basement, 50 x 125 ft., stone, granite and brick on hollow tile bank, Front St. $150,000.

Md., Baltimore—HOTEL and STORE—I. Silberstein, 402 St. Paul St., interested in company who are having preliminary plans prepared by A. L. Harmon, 19 West 44th St., New York City, 18 story, brick and steel, plain foundation, North and Maryland Aves. $1,000,000.

Mich., Detroit—OFFICE—Book Estate, Book Bldg., having plans prepared by L. Kamper, 3729 Cass Ave., 35 story and 3 basements, rein.-con., brick and steel, plain foundation, Washington Blvd. and Grand River Ave. $3,000,000.

Ill., Chicago — APARTMENT — J. L. Cuyen, 124 North Crawford Ave., having revised plans prepared by J. Jensen, 1105 Lawrence Ave., 3 story and basement, 112 x 120 ft., brick and stone, plain foundation, Melrose St. $150,000.

Ill., Chicago — APARTMENT — H. J. Apfelbach, owner and archt., 952 North Michigan Ave., preparing plans 3 story and basement, 165 x 172 ft., brick and stone, plain foundation, Taylor St. $250,000.

Ill., Chicago — HOTEL, OFFICE and THEATRE — L.O.O.M. Chicago 1, c/o B. Johnson, secy., 155 North Clark St., plans hotel, office and theatre building. $2,000,000. Engineer and architect not selected.

Ill., Chicago—LODGE—Mid City Lodge Odd Fellows, c/o S. J. Grusd, 160 North LaSalle St., had plans prepared by Langenhein & Friedman, archts. and engrs., 39 West Adams St., 2 story and basement, 75 x 142 ft., rein.-con., brick and stone, plain foundation, 3344 Jackson St. $200,000.

Ill., Chicago—OFFICE—Singer Sewing Machine Co., 39 South LaSalle St., having plans prepared by Mundie & Jensen, archts. and engrs., 39 South LaSalle St., 10 story and basement, 25 x 120 ft., rein.-con., brick, steel and stone, caisson foundation, State St. $500,000.

Ill., Chicago — OFFICE and APARTMENT—Wagner Bros., 6222 Cottage Grove Ave., having plans prepared by C. Archer, 6222 Cottage Grove Ave., 3 story and basement, 100 x 131 ft., rein.-con., brick and stone, plain foundation, 79th and Racine Sts. $300,000.

Tex., San Antonio — THEATRE and OFFICE—W. J. Lytle, 12 Princess Theatre Bldg., having plans prepared by Boller Bros., 114 West 10th St., Kansas City, Mo., 5 story and basement, 93 x 276 ft., rein.-con. and steel, plain and some caisson foundation, Houston, Travis and Riverside Sts. $1,000,000.

Calif., Los Angeles—BANK and OFFICE —Pacific Natl. Bank soon takes bids for general contract 12 story and basement, 95 x 166 ft., brick and steel, 9th and Hill Sts. $1,000,000. Morgan, Walls & Clements, 1124 Van Nuys Bldg., archts. Noted Jan. 15.

Calif., Los Angeles—HOSPITAL—Good Samaritan Hospital, c/o R. D. Johnson, archt., Union Bank Bldg., having preliminary plans prepared approximately 8 story and basement, rein.-con., Shatto St. $1,000,000 or more.

Calif., Los Angeles—OFFICE—O. G. Wilhelm, c/o H. B. Watson, archt., 425 South Western Ave., having preliminary plans prepared, probably 5 story (ultimately 10 story) and basement, Class A, Pico St. and Western Ave. To exceed $150,000.

Calif., Los Angeles—STORE and LOFT—H. Newmark Estate, c/o Curlett & Beelman, archts., Union Bank Bldg., having plans prepared 12 story and basement, 150 x 160 ft., rein.-con., 9th and Los Angeles Sts. To exceed $450,000.

BIDS DESIRED

Mass., Somerville (Boston P. O.) — STORE, OFFICE and GARAGE—Kelligian & Sons, 9 Union Sq., taking bids 2 story and basement, 8,000 sq.ft. floor space, rein.-con. and brick, Union Sq. $150,000. J. A. Quirk, 10 Tremont St., Boston, archt.

Conn., New Britain—APARTMENT and STORE—Ukranian Corp., c/o C. C. Palmer, 85 West Main St., taking bids 4 story and basement, 75 x 85 ft., brick and stone, plain foundation, North St. $150,000.

N. Y., New York—HOUSE OF DETENTION—Apr. 23, by W. W. Mills, comr. Plants & Structures, Municipal Bldg., steel framework, foundation walls, column footings, etc., for womens court and house of detention, 30th St. between 6th and 7th Aves.

Pa., York — Apr. 24, by E. Leber, Hay Bldg., and Thomas, Martin & Kirkpatrick, Cunard Bldg., Phila., archts., 2 and 5 story and basement, 370 x 274 ft., brick, rein.-con. foundation, Newberry and Phila. Sts., for Y. M. C. A. $500,000.

La., New Orleans—TEMPLE—May 23, by S. Stone, Jr., archt., 714 Union St., 16 story, 103 x 170 ft., steel, brick and limestone, St. Charles and Perdido Sts., for Masonic Assn. $2,250,000. Noted Feb. 26.

O., Cleveland—APARTMENT—M. Goodman, Ulmer Bldg., taking bids 4 story, 100 x 100 ft., brick, West Blvd. $200,000. G. Rudolph, 3922 Trumbull Ave., archts.

O., Cleveland Heights (Warrensville P. O.) — STORE and APARTMENT, etc. — Coventry Leasehold Co., c/o H. Caplan, 3464 East 123rd St., Cleveland, taking bids 2 story, 67 x 150 ft. store and apartment, 1794 Coventry Rd., and 3 story, 38 x 112 ft. apartment, 2783 Lancashire Rd., brick and timber, here. $250,000.

O., Lakewood (Cleveland P.O.)—STORE and APARTMENT—H. A. Latten & J. J. Hinslea, 310 Lakeside Ave. N. W., Cleveland, taking bids 3 story and basement, 60 x 128 ft., brick, 14900 Detroit Ave., here. $150,000. Braverman & Havermaet, 208 Ulmer Bldg., Cleveland, archts.

Mich., Brightmoor—THEATRE and OFFICE — LeWin Development Co., 2639 Woodward Ave., Detroit, taking bids 2 story and basement, 100 x 120 ft., concrete, brick and steel, plain foundation. $150,000. C. K. Bell, 2316 Dime Bank Bldg., Detroit, archt.

Mich., Detroit — APARTMENT — P. A. Miller, Majestic Bldg., taking bids 3 story and basement, 98 x 111 ft., brick, steel and stone, plain foundation. Byron Ave. $175,000. Halpin & Jewell, 1024 Hammond Bldg., archts.

Mich., Detroit — MERCANTILE — Stahl, Kinsey & Hartwick, archts., 628 McKerchey Bldg., taking bids 4 story and basement, 109 x 200 ft., brick and steel, plain foundation, Michigan Ave. $175,000. Owner's name withheld.

Ill., Chicago — Studio — Gallup & Joy, archts., 646 North Michigan Ave., taking bids 7 story and basement, 40 x 100 ft., rein.-con. and brick, caisson foundation, Pearson St., for F. Schoenfield, 83 South Dearborn St. $250,000.

Ill., St. Charles—BANK and APARTMENT—Wolf, Sexton, Harper & Traux, archts., 7 West Madison St., Chicago, taking bids 2 story and basement, 44 x 90 ft., rein.-con., brick, marble, stone and terra cotta, plain foundation, Main St., here, for E. J. Baker. $150,000.

Ill., Chicago—APARTMENT HOTEL—P. Klein, 110 North Dearborn St., taking bids 3 story and basement, 50 x 160 ft., rein.-con., brick and stone, plain foundation, Magnolia St. $200,000. Hyland & Corse, 159 East Antario St., archts.

Ill., Chicago—HOTEL—A. Epstein, engr. and archt., 2001 West Pershing Rd., taking bids 6 story and basement, 131 x 312 ft., rein.-con., brick and terra cotta, plain foundation, 47th St. and Drexel Blvd., for Forty-Seventh and Drexel Corp.

Wis., Madison—STORE, etc.—O. Rennebohn, 1817 Kendall Ave., taking bids 2 and 3 story and basement, 60 x 150 ft., rein.-con., brick and steel, plain foundation, University Ave. $150,000. Private plans.

Neb., Omaha—COMMUNITY—Apr. 22, by L. A. Daly, archt., 622 Peters Trust Bldg., 6 story and basement, 140 x 152 ft., rein.-con., brick and steel, 20th and Dodge Sts., for Knights of Columbus, c/o W. C. Fraser, pres. $500,000. Noted Jan. 1.

N. D., Valley City—COURT HOUSE—Apr. 30, by C. W. Nelson, aud. Barnes Co., 3 story, rein.-con., brick and stone. $225,000. Toltz, King & Day, Builders Exch. Bldg., St. Paul, Minn., archts. Noted Jan. 8.

Calif., Burlingame—EXCHANGE—Bliss & Faville, archts., Balboa Bldg., San Francisco, taking bids 3 story and basement, rein.-con. phone exchange, here, for Pacific Telegraph & Telephone Co., 333 Grant Ave., San Francisco. $150,000.

Calif., Hollywood—THEATRE, STORE and LOFT—G. A. Landsburgh, archt.,

Buildings—Commercial (Continued)

Hillstreet Bldg., Los Angeles, taking bids 6 story and basement, 125 x 180 ft., steel and rein.-con. theatre, store and loft building, for Hollywood Impvt. Co., c/o architect. To exceed $500,000.

Calif., San Jose — BANK — G. A. Lansburgh, archt., 140 Montgomery St., San Francisco, taking bids 2 story and basement, Class A annex, 1st and San Fernando Sts., here, for Mercantile Trust Co. $150,000.

CONTRACTS AWARDED

Me., Augusta—HOTEL—Weavers Restaurant, Water St., 6 story and basement, brick and timber addition, Water St., to H. Tremblay, 182 Ash St., Lewiston. Archts. est. $150,000. Noted Apr. 2.

Mass., Amherst—CLUBHOUSE—Amherst Lodge Knights of Columbus, Belchertown, 3 story and basement, 50 x 130 ft., brick and stone clubhouse, to M. J. Walsh & Sons, 1412 Dwight St., Holyoke. Archts. est. $150,000. Noted Aug. 14.

Mass., Attleboro — HOSPITAL — Sturdy Memorial Hospital, 3 story and basement, rein.-con., brick and stone addition, Sturdy St., to B. W. Neal, Inc., 293 Boylston St., Brookline. Archts. est. $200,000. Noted Mar. 12.

Mass., Attleboro — STORE and OFFICE —M. Rudnick, 333 Washington St., Boston, will build 1 and 2 story and basement, 70 x 90 x 100 ft., brick and stone, South and County Sts., by day labor. $150,000. Silverman, Brown & Heenan, 51 Cornhill St., Boston, archts.

Mass., Boston — APARTMENT — O. P. Silverstein, 72 Huskings St., Roxbury, will build 3 story and basement, brick, Brainard Rd. and Walbridge St., by day labor. $200,000.

Mass., Boston—CLUB—University Club, J. W. Powell, pres., 24 Federal St., Boston, 4 and 6 story and basement, brick and limestone, plain foundation, Stuart St. and Trinity Pl., to W. A. and H. A. Root, Park Sq. Bldg. Archts. est. $1,750,000. Noted Feb. 5.

Mass., Cambridge (Boston P. O.) — APARTMENT — S. F. Mitell, c/o G. N. Jacobs, archt., 4 Park St., Boston, will build 5 story and basement, 104 x 201 ft., brick and stone, plain foundation, Prescott St. and Bway., by day labor. $450,000. Noted Apr. 2.

Mass., Fall River — THEATRE — N. Yamins, 57 Main St., structural steel for 1 and 2 story, rein.-con., brick and steel, plain foundation, Main St., to Eastern Bridge & Structural Co., 88 Crescent St., Worcester; masonry work, to F. J. Rudd, 534 Weetamoe St.; carpentry and other work will be done by day labor. Archts. est. $150,000. Noted Jan. 29.

Mass., Medford — NURSES' HOME — Lawrence Memorial Hospital, B. B. Moore, chn., 3 story and basement, 50 x 92 ft., brick and cast stone, plain foundation, Forest St., to J. M. Hartwell, Highland Ave., Somerville. Archts. est. $150,000. Noted Jan. 8.

Mass., Roxbury (Boston P. O.)—APARTMENT—S. Rubinstein, 92 Howland St., will build 3 story and basement, brick and cast stone, plain foundation, by day labor. $160,000. S. S. Levy, 35 Court St., Boston, archt. Noted Feb. 19.

Mass., Springfield—STORE and OFFICE —Tarbell Waters Co., Inc., 144 Chestnut St., 2 story and basement, 46 x 126 ft., brick, Chestnut and Bridge Sts., to E. J. Pinney Co., 374 Main St. Archts. est. $150,000.

R. I., Providence—STORE and OFFICE —T. A. O'Gorman, c/o H. R. Hunt, Westminster St., 6 story and basement, rein.-con. and brick, Westminster and Eddy Sts., to E. Turgeon, 86 Weybosset St. Archts. est. to exceed $150,000. Noted Mar. 19.

Conn., New Haven — APARTMENT — Spadoni & Co., Dewitt St., will build 2 story, 100 x 175 ft., brick and steel, by day labor. $150,000. H. S. Cannigl, 82 Church St., archt.

Conn., New Haven—GARAGE—M. Langrock & R. L. Klautz, c/o A. W. Boylen, archt., 39 Center St., 2 story, brick and steel, Temple St., to Ratner, Constr. Co., 425 George St. Archts. est. $200,000. Noted Feb. 19.

N. Y., Brooklyn—THEATRE—W. Brandt, Times Bldg., New York City, brick, steel and stone, plain foundation, Flatbush Ave., to M. Shapiro & Sons, 1540 Bway., New York City. Archts. est. $350,000.

N. Y., New York—BANK and OFFICE —Harriman Natl. Bank, 527 5th Ave., 11 story, brick, steel and stone, plain foundation, 523 5th Ave., to E. Debitsch, Inc., 70 East 45th St.

N. Y., New York—LOFT—Estey Building Corp., c/o W. I. Hohauser, archt. and engr., 1400 Bway., will build 14 story, brick, steel and stone, plain foundation, 245 West 27th St., by day labor.

Pa., Donora—BANK—Bank of Donora, general contract remodeling and constructing 2 story and basement, 50 x 100 ft. and 20 x 100 ft. addition, 5th St. and McKean Ave., to Kelly & Kelly, 14th St., Long Island City, New York. Archts. est. $150,000.

Pa., Phila.—SERVICE and STORE—Willard Storage Batteries Co., 3613-21 Walnut St., 1 story and basement, 100 x 120 ft., brick and steel, plain foundation, to W. R. Graham, 3649 Filbert St.

Md., Baltimore — APARTMENT — J. H. Miller, Eutaw and Franklin Sts., (contractor), will build 14 story, 109 x 128 ft., brick and steel, plain foundation, Cloverdale Rd. and Madison Ave. $800,000. Owner's name withheld.

La., New Orleans — HOTEL — Weiss & Dreyfous, archts., Maison Blanche Bldg., general contract Jung Hotel, 10 story, concrete, brick and steel, Canal and Howard Sts., to J. V. and R. T. Burkes, Carondelet Bldg., $440,000; heating and plumbing, to Sciambra & Masino, 936 North Broad St., $103,500. Noted Mar. 5.

O., Cleveland — APARTMENT — Myark Constr. Co., 817 Guardian Bldg., will build 3 story and basement, 45 x 137 ft., brick, 1798 Crawford Rd., by day labor. $175,000. M. Weis, 617 Union Bldg., archt.

O., Cleveland — APARTMENT — Euclid-Hastings Co., c/o S. Glaser, 201 Ulmer Bldg., 4 story, 50 x 200 ft., brick, 16,001 Euclid Ave., to J. Meckler, Jr., 9602 Adams Ave. Archts. est. $200,000.

O., Cleveland—LODGE and COMMERCIAL—I. O. O. F. 5, c/o N. P. McGay, 1000 East 105th St., 3 story and basement, 65 x 125 ft., brick, steel and concrete, 1274 Lakeview Rd., to W. F. Hendrich, 2777 East 53rd St. Archts. est. $150,000.

O., Columbus—OFFICE—Richards, McCarty & Bulford, archt., 584 East Broad St., 3 story and basement, 59 x 123 ft., rein.-con. and brick, Broad St. and Lexington Ave., to Boyajohn & Barr, Brunson Bldg., for Ohio State Life Insurance Co. $220,000. Noted Mar. 19.

Mich., Detroit—MERCANTILE—Weil & Co., 301 Michigan Ave., 6 story and basement, 100 x 100 ft., rein.-con., brick, steel and terra cotta, plain foundation, West Grand Blvd., to O. Misch Co., 159 East Columbia Ave. Archts. est. $175,000.

Ill., Chicago — APARTMENT — Conleigh Building Corp., c/o Rossman & Hirschfield, archts., 64 West Randolph St., general contract 3 story and basement, 132 x 153 ft., rein.-con. and brick, plain foundation, Waller St., to C. E. Erickson, 5924 Addison St., $250,000.

Ill., Chicago — APARTMENT — T. F. Kelly, 6333 St. Lawrence Ave., general contract 3 story and basement, 150 x 200 ft., brick and stone, plain foundation, 5864 Harper Ave., to A. Lindstrum, 77 West Washington St., $250,000.

Ill., Chicago—APARTMENT—Plotke & Crosby, 111 West Washington St., general contract 3 story and basement, 100 x 165 ft., rein.-con. and brick, plain foundation, Hermitage St., to J. Graft, 3735 North Clark St., $125,000.

Ill., Chicago — APARTMENT — D. Schetnitz, c/o B. L. Steif, archt., 64 West Randolph St., general contract 3 story and basement, 108 x 125 ft., rein.-con., brick and terra cotta, plain foundation, 3347 North Ave., to Anderson & Windblad, 6235 South Michigan Ave., $98,000.

Ill., Chicago—HOSPITAL—Mount Sinai Hospital, 2226 Wabansia Ave., general contract 5 story and basement, 125 x 135 ft., rein.-con., brick, steel and stone, addition, West 15th St., to C. A. Moses Constr. Co., 133 West Washington St. $438,000.

Minn., St. Paul—STORE and OFFICE—Montgomery Ward & Co., H. W. Smith, mgr., 1400 University Ave., general contract 9 story and basement, 146 x 221 ft., rein.-con. and stone addition, to J. G. Grant Constr. Co., 904 Exchange Bank Bldg.; foundation only for above was awarded to Wells Bros. Constr. Co., 53 West Jackson Blvd., Chicago, Ill. Total $500,000. This corrects report in Nov. 13 issue.

Minn., St. Paul — WAREHOUSE and GARAGE—St. Paul Gas Light Co., F. C. Hoffman, secy., 6th and Cedar Sts., general contract 3 story and basement, 100 x 228 ft., rein.-con., brick and stone, Rice and Atwater Sts., to H. C. Struchen, 405 Dakota Bldg., approximately $150,000. Noted Mar. 5.

Colo., Denver — INFIRMARY — Natl. Jewish Home for Consumptives, Colfax St. and Colorado Blvd., general contract 3 and 4 story, 60 x 220 ft. infirmary, to C. S. Lambie, 1731 Stout St., $244,700; plumbing and heating, to Johnson-Davis Plumbing & Heating Co., 2239 Arapahoe St., $29,813. Noted Feb. 19.

Calif., Boyes Springs — THEATRE and HOTEL — Boyes Springs Co., 1 story theatre, and 2 story, approximately 200 room hotel, both rein.-con., to E. D. Meier, Cheeda Block, San Rafael, approximately $200,000.

Calif., Del Monte—HOTEL—Del Monte Properties Co., 620 Market St., San Francisco, rein.-con. (Spanish type) hotel, to Lindgren-Swinerton, Inc., Standard Oil Bldg., San Francisco, $1,500,000 (cost plus basis).

Calif., Los Angeles—APARTMENT—F. W. Siegel, Ritz Hotel, will build 4 story and basement, brick and steel, South Flower St., by day labor. $175,000.

Calif., Roscoe—CLUB—Encino Country Club, I. W. Hellman Bldg., Los Angeles, 2 story and basement, 70 x 125 ft., timber and stucco, clubhouse with concrete swimming pool, etc., to Metzger & Son, 1007 South Grand Ave., Los Angeles, $175,000.

Calif., San Francisco—APARTMENT—Stock & Jose, 251 Kearny St., will build 6 story and basement, rein.-con., Laguna and Sacramento Sts., by day labor. $150,000. Baumann & Jose, 251 Kearny St., archts.

Calif., San Francisco—APARTMENT—J. Welsh, 1 Northwood Dr., will build 6 story and basement, rein.-con., Fillmore and Washington Sts., by day labor. $175,000. Bauman & Jose, 251 Kearny St., archts.

Calif., San Pedro — HOTEL — E. Lotz, c/o M. R. Lawson, 540 South Pacific Ave., 4 story and basement, 90 x 100 ft., brick, concrete and steel hotel, to H. C. Layton, 854 West 8th St., $155,000.

Ont., Toronto — OFFICE — Dept. Pub. Wks., Parliament Bldgs., general contract 6 story and basement, 200 x 350 ft., rein.-con. and brick, plain foundation, Queens Park, to Jackson Lewis Constr. Co., Ryrie Bldg., $1,500,000. Noted Nov. 27.

Buildings—Educational, Religious

PROPOSED WORK

N. H., Concord—HIGH SCHOOL—School Comrs. plan new high school. $550,000. Engineer and architect not selected.

N. H., Keene—DORMITORY—State appropriated $250,000 for dormitories at Keene Normal School. Engineer and architect not selected.

Mass., Allston (Boston P. O.)—SCHOOL —School House Dept., T. P. Glynn, chn., Boston, plans 2 story, brick and stone, Washington-Allston Dist., near Commonwealth Ave., here. $160,000. Engineer and architect not selected.

Mass., Arlington (Boston P. O.) — CHURCH, etc.—Church of Our Savior, W. M. Bixby, pastor, 38 Marathon St., having sketches made by C. C. Coveney, 184 Boylston St., Boston, 1 and 2 story and basement, rein.-con., brick and stucco church and parish house, plain foundation. To exceed $150,000.

Mass., Boston—COMMUNITY HOUSE—Boston Baptist Mission, 523 Tremont Temple, Boston, having sketches made by Kendall, Taylor & Co., 142 Berkley St., 2 or more story, brick, Green, Hale, and Pitts Sts. $150,000. Noted Jan. 1.

Mass., Boston—MUSEUM and LECTURE HALL — Society for Prevention of New England Antiquities, Lynde St., plans to raise $150,000 remodeling old building and constructing new additions, 14-16 Lynde St. Engineer and architect not selected.

Mass., Rockport—HIGH SCHOOL—Bd. Educ., having plans prepared by J. W. Beal & Sons Co., 185 Devonshire St., Boston, 2 story and basement, brick high school. $150,000. Noted Mar. 12.

Mass., Rosindale (Boston P. O.) — SCHOOL — School House Dept., Boston, having sketches made by Walker, Walker & Kingsbury, 120 Boyleston St., Boston, 3rd Unit to Washington Irving School, 2 story and basement, brick and stone. $300,000.

Mass., Somerville — CHURCH—Swedish Lutheran Church, A. J. Hallington, pastor, 9 Mason St., raising $150,000 or more funds for 2 story, brick and stone, Dillingham St. and Bway. Engineer and architect not selected.

Mass., Walpole — HIGH SCHOOL — School Bd. and Bd. Selectmen plan 2 story

Buildings—Educational, Religious (Cont.)

and basement high school. $150,000. Engineer and architect not selected.

Mass., West Roxbury (Boston P. O.)—SCHOOL—Schoolhouse Dept., T. P. Glynn, chn., Boston, plans Kindergarten School, 1 story and basement, brick and stone, Robert School Shaw Dist., here. $150,000. Engineer and architect not selected.

Mass., Worcester—CHURCH AND PARSONAGE — Concordia Lutheran Church Society, c/o Newhall & Blevins, archts., 9 Park St., Boston, having preliminary plans prepared 2 and 1 story and basement, brick and stone church and parsonage. $150,000.

R. I., Cranston—SCHOOL—School Com., E. C. Potter, chn., City Hall, plans new school in Ward 2, Pontiac and Mersick Aves., incl. developing land for playground and yard. To exceed $150,000. Engineer and architect not selected.

Conn., Danbury — HIGH SCHOOL — Voted $495,000 bonds for new high school. J. R. Booth, judge.

Conn., New Britain — SCHOOL — City School Bd., plans school, Steele St. and Corbin Ave. $325,000. This is part of $885,000 school program.

Conn., Ridgefield — HIGH SCHOOL — Superintendent Schools, Town Hall, having plans prepared by Sunderland & Watson, 248 Main St., Danbury, local high school. $150,000.

Conn., Stamford—SCHOOL—Bd. Selectmen, C. H. Martin, having preliminary plans prepared by Allen & Chapman, 315 5th Ave., New York City, for school in Rogers Dist.

Conn., Stamford—SCHOOL—Sisters of St. Joseph, Strawberry Hill, having revised plans prepared by L. A. Walsh, 51 Leavenworth St., Waterbury, 3 story and basement, 60 x 120 ft., brick and stone, plain foundation, Strawberry Hill. $200,000. Former bids rejected. Noted Feb. 5.

N. Y., Buffalo — CHURCH — St. Johns Church, Lafayette Ave. and Bidwell Parkway, having preliminary plans prepared by Goodhue Associates, 2 West 47th St., New York City, Church, Lafayette Ave. and Bidwell Parkway. $200,000. Noted Apr. 2.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, brick, steel and stone addition to P. S. 40, 20th St. between 1st and 2nd Aves. $400,000.

Pa., Midland — HIGH SCHOOL — Bd. Educ. having plans prepared by W. G. Eckles, New Castle, Junior and Senior High School, 2 story and basement, 150 x 250 ft., brick on hollow tile, Beaver Ave. $300,000.

Pa., West Chester — MEMORIAL and AUDITORIUM — West Chester Normal School having plans prepared by Price & Walton, 119 South 4th St., Phila., 1 and 2 story, 64 x 162 ft., stone and steel, plain foundation, on campus. $300,000.

N. C., Goldsboro — HIGH SCHOOL — Voted $325,000 bonds new high school.

Fla., Bartow—HIGH SCHOOL—Special Tax School Dist. 3, Winter Haven, election Apr. 21, $250,000 bonds for high school.

O., Dayton—SCHOOL—Bd. Educ., C. J. Schmidt, secy., 216 Ludlow Bldg., rejected bids Mar. 17, 2 story and basement, rein.-con., brick and stone, plain foundation, Troy and Leo Sts. $500,000. Will readvertise. Noted Feb. 26.

O., Euclid—SCHOOL—Holy Cross Roman Catholic Church, T. A. Kirby, pastor, 2266 South Overlook Rd., Cleveland, having preliminary plans prepared by G. H. Ingraham, B. F. Keith Bldg., Cleveland, 2 story and basement, brick, steel and concrete, East 200th St. and Lake Shore Blvd. $150,000. Noted Feb. 19.

O., Maple Heights (mail Cleveland) — HIGH SCHOOL—Bd. Educ. having plans prepared by A. M. Allen & Co., 7016 Euclid Ave., Cleveland, 3 story and basement, brick, steel and concrete, Bway.

Ill., Chicago — HIGH SCHOOLS — Bd. Educ., J. E. Byrnes, bus. mgr., 650 South Clark St., having plans prepared by J. C. Christensen, 650 South Clark St., 7 Junior High Schools, each 250 x 471 ft., 2 and 3 story and basement, School St.; 3 story and basement with 2 story wings, Lene St.; five 2 and 3 story schools, one on Black Hawk St., one on Gilpin St., one on Wood and Lincoln Sts., one on Harvey St. and other on State and Wabash Sts., all rein.-con., and brick, plain foundation. $750,000 each.

Ill., Evanston—CHURCH—Second Presbyterian Church having preliminary plans prepared by Holmes & Flinn, 8 South Dearborn St., Chicago, 2 story and basement, 75 x 125 ft., brick and stone, plain foundation, Main St. $250,000.

Ill., Waukegan — HIGH SCHOOL — Bd. Educ. having plans prepared by Shattuck & Layer, 19 South LaSalle St., 2 story and basement, rein.-con. and brick high school and gymnasium, plain foundation. $200,000. Noted Jan. 29.

Calif., Los Angeles—LAW—Parkinson & Parkinson, archts., Title Insurance Bldg., soon take bids 3 story and basement, 120 x 120 ft., brick law building, University Campus, for University of Southern California. Noted Nov. 27.

Ont., North Bay—SCHOOL—Pub. School Bd. having plans prepared by Angus & Angus, Angus Blk., and soon takes bids 2 story and basement, 8 room, rein.-con., brick and timber, plain foundation. $150,000.

BIDS DESIRED

Mass., Boston — PARISH HOUSE and CHAPEL — Second Congregational Church, V. Dabney, pastor, 6 Melville Ave., Dorchester, taking bids 1 and 2 story and basement, brick and stone, Codman Sq. $150,000. Noted Mar. 12.

Mass., Chicopee — CHURCH — Trinity Church, Chicopee Falls, taking bids 1 story and basement, 45 x 110 ft., brick and stucco, plain foundation. $150,000. C. C. Coveney, 184 Boylston St., Boston, archt. Noted Sept. 11.

Mass., Clinton—SCHOOL—St. Mary's Polish Church, A. Borrisky, pastor, 127 Franklin St., taking bids 2 story and basement, 65 x 100 ft., brick and stone school. $150,000. J. W. Donahue, 476 Main St., Springfield, archt.

Conn., Hartford — CHURCH — German English Evangelical Lutheran Church, J. Kavasch, pastor, 107 Madison St., taking bids 1 story, 41 x 110 ft., brick and steel, Broad and Madison Sts. $150,000. G. Zunner, 230 Quaker St., South Hartford, archt.

Mass., Lowell — CHURCH — Greek Orthodox Society, c/o Ashton, Huntress & Alter, archts., 477 Essex St., Lawrence, taking bids 1 story and basement, 90 x 95 ft., brick and stone church, plain foundation, here. $150,000.

Mass., Rockport—HIGH SCHOOL—Town Bd. Selectmen taking bids 2 story and basement, 112 x 115 ft., brick and stone, on Town Green near Tarr School. $150,000. J. W. Beal & Sons Co., 185 Devonshire St., Boston, archts.

R. I., Woonsocket — HIGH SCHOOL — School Dept., City Hall, taking bids Junior High School, 2 story and basement, brick and steel. $300,000. W. F. Fountaine, 285 Main St., archt. Noted Aug. 28.

N. Y., Buffalo—SCHOOL—Apr. 23, by Bd. Educ., constructing P. S. 76, Elmwood Ave. $500,000. Bureau of School Architects, Old Central High School, archt.

N. Y., Great Neck—SCHOOL—May 4, by W. G. Genner, clk. Bd. Educ. Union Free School Dist. 7, North Hempstead, addition to school, here. W. S. Bessell, 58 West 49th St., New York City, archt.; adv. E. N.-R. Apr. 16.

N. J., Newark—HIGH SCHOOL—Apr. 23, by Bd. Educ., City Hall, 3 story and basement, 200 x 260 ft., brick and steel, plain foundation, South Orange Ave. and Kensington Pl. $750,000. Guilbert & Betelle, Chamber Commerce Bldg., archts. Noted Oct. 30.

Pa., Taylor—HIGH SCHOOL—Apr. 23, by School Dist. 1, c/o W. Thomas, secy., 2 story and basement, 123 x 150 ft., brick high school, plain foundation. $150,000. J. J. Howley, Traders Bank Bldg., Scranton, archt. Noted June 26.

O., Akron—HIGH SCHOOL—May 1, by Bd. Educ., 38 room high school, Plan A 1st section, Plan B 1st section and wing, and Plan C 1st section, wing and cafeteria, in Firestone Park, $315,000. H. T. Waller, pres.

O., Ashland—HIGH SCHOOL—Apr. 20, by Bd. Educ., J. L. Grindle, clk., 3 story, brick, steel and concrete addition. To exceed $150,000. V. Redding and associates, Bird Bldg., Mansfield, archts.

Mich., Springwells — CHURCH — Stahl, Kinsey & Hartwick, archts., 628 McKerchy Bldg., Detroit, taking bids 2 story and basement, 105 x 120 ft., brick, steel and stone, plain foundation, for Mt. Olivet Church. $150,000.

Kan., Kansas City—CHURCH—Apr. 25, by Brinkman & Steele, archts., Emporia, 1 story and basement, 60 x 144 ft., brick and carthage stone, plain foundation, Grandview Blvd., for St. Peters Catholic Parish, c/o F. M. Orr, pastor, 409 North 15th St. $150,000.

Tex., San Antonio—HOME—Protestant Churches taking bids Orphans Home, 2 story and part basement, 90 x 140 ft. rein.-con., brick and stone, plain foundation, on Bandera Rd. near Woodlawn Ave. $250,000. Adams & Adams, Gibbs Bldg., archts. Noted Mar. 2.

Calif., Los Angeles—HIGH SCHOOL—Apr. 22, by Bd. Educ., Franklin High School, rein.-con. $300,000 or more. Jeffery & Schaefer, Kerckhoff Bldg., archts. Noted Mar. 26.

BIDS RECEIVED

Pa., Sewickley — SCHOOL — Bd. Educ., general contract 3 story and basement, 90 x 240 ft. school, from H. Wimer, Butler. $256,000. Archts. est. $300,000.

O., Cleveland Heights (Warrensville P. O.)—HIGH SCHOOL—Bd. Educ., N. G. Nesbitt, dir., 1805 Lee Rd., Apr. 6, Senior High School, 3 story and basement, brick and steel, Cedar and Lee Rds., from Schirmer-O'Hara Co., 1710 Euclid Ave., Cleveland, $1,035,252. Noted Mar. 19.

O., Galion—HIGH SCHOOL—Bd. Educ., Junior High School, 2 story and basement, 127 x 238 ft., rein.-con. and brick, from A. Shurer, Sandusky, $178,088. Noted Mar. 26.

Calif., San Francisco — SCHOOL — Bd. Pub. Wks., Apr. 1, general contract Le Conte School, fireproof, Harrison St. near Precita Ave., from Anderson & Ringrose, 320 Market St., for City and San Francisco Co. $259,860. Noted Mar. 12.

CONTRACTS AWARDED

Mass., Arlington Heights (Boston P. O.) — CHURCH — St. James Roman Catholic Church, 1 story and basement, 110 x 150 ft., rein.-con., brick and stone, Appleton St., to J. M. Dolan, 237 Bway., Boston. Archts. est. $150,000. Noted Mar. 26.

Mass., Gloucester — CHURCH — St. Anthony's Roman Catholic Church, 1 story and basement, rein.-con., brick and stone, plain foundation, Louis and Farrington Sts., to Pitman & Brown, 11 Washington St., Salem. Archts. est. $160,000. Noted Mar. 19.

Mass., New Bedford—SCHOOL—Swain School of Design, 391 County St., 2 story and basement, brick and stone, Hawthorne and County Sts., to J. W. Bishop, Times Bldg. Archts. est. $150,000.

Mass., Springfield — SCHOOL — City Property Comn., 2 story and basement, 60 x 158 ft., rein.-con., brick and steel, plain foundation, Bowles Park, to Schnare Constr. Co., Inc., 318 Main St. Archts. est. $150,000. Noted Feb. 5.

R. I., Providence—HIGH SCHOOL—Pub. Buildings Com., 2 story and basement, brick high school, Washington Park, to Central Eng. & Constr. Co., 210 Main St., Pawtucket, $174,000. Engrs. est. $150,000. Noted Mar. 12.

R. I., Providence—PARISH—St. Martin's Parish, Orchard Ave., 2 story and basement, rein.-con., tile and stucco, plain foundation, Orchard Pl., to A. W. Merchant, Inc., Hospital Bldg. Archts. est. $150,000.

N. Y., Mechanicsville — SCHOOL — Bd. Educ., 4 story, 90 x 120 ft. school, Main St., to Gibbs Co., Phila., Pa., $17 940. Noted Dec. 11.

Md., Baltimore — SCHOOL — Mayor and City Council, 3 story, 83 x 142 ft., concrete and brick, plain foundation, Old Frederick Rd., to Price Constr. Co., Maryland Trust Bldg. $245,900. Noted Apr. 9.

O., Gambier—SCIENCE HALL—A. Garfield, archt., Natl. City Bldg., 3 story and basement, 83 x 123 ft., brick, steel and concrete, here, to Nolze & Norton, Columbus, for Kenyon College. Archts. est. $175,000. Noted Feb. 5.

Ill., Calumet City—SCHOOL—Bd. Educ. c/o M. Finnman, secy., 2 story and basement, 100 x 130 ft., rein.-con., brick and stone, to F. C. Rowley & Co., 332 South LaSalle St., Chicago. Archts. est. $200,000.

Ill., Chicago—SCHOOL—Bd. Educ., J. E. Byrnes, bus. mgr., 650 South Clark St., general contract 2 story and basement, 150 x 200 ft., rein.-con., brick and stone, plain foundation, Balmoral St., to Midland Constr. Co., 332 South Michigan Ave., $169,325.

Ill., Chicago—SCHOOL—Bd. Educ., J. E. Byrnes, bus. mgr., 650 South Clark St., general contract Jacques Marquette School, 2 story and basement, 150 x 200 ft., rein.-con., brick and terra cotta, plain foundation, 66th and Richmond Sts., to A. and E. Anderson, 19 South LaSalle St., $209,993.

Ill., Chicago—SCHOOL—Bd. Educ., J. E. Byrnes, bus. mgr., 650 South Clark St., general contract Mary Gage Peterson School, 2 story and basement, 150 x 200 ft., rein.-con., brick and terra cotta, plain foundation, Catalpa and Christiana Sts., to Hanson Bros., 127 North Dearborn St., $202,963. Archts. est. $400,000.

Wis., Milwaukee—SYNAGOGUE—H. H. Bruns, archt., 845 26th St., concrete work only for 2 and 1 story, concrete, brick and

Buildings—Educational, Religious (Cont.)

stone, plain foundation, Teutonia Ave., to E. Dreyer, 1008 6th St., for Beth Israel Congregation, S. Michel, 175 Queen Ann Pl. Archts. est. $185,000. Noted Mar. 19.

Ia., Creston—SCHOOL—Bd. Educ., H. W. Edaburn, pres., general contract 2 story and basement, 160 x 204 ft., rein.-con., brick and steel, to M. A. Floyd Co., 343 Northwestern Natl. Life Bldg., Minneapolis, Minn., $213,378. Noted Mar. 26.

Ia., Paullina — SCHOOL — Bd. Educ., 3 story and basement, 75 x 130 ft., brick, concrete and stone, to B. E. Short Constr. Co., 418 Court St., Sioux City. Noted Dec. 25.

Neb., Lincoln—SCHOOL—Bd. Educ., J. G. Ludlam, secy Randolph School, 2 story and basement, 26 x 32 ft., 40 x 62 ft. and 77 x 250 ft., rein.-concrete, brick and stone, 37th and D Sts., to W. J. Assenmacher, 626 North 17th St. Noted Mar. 5.

Mo., Carthage — SCHOOL — Methodist Episcopal Church, c/o W. W. King, Ozark College, 3 story and basement, 100 x 300 ft. school with 2 story wing in rear for gymnasium and swimming pool, Grand Ave., to G. F. Green, 31st and Elmwood Sts., $215,679.

Ark., Little Rock—CHURCH—Winfield Memorial Methodist Episcopal Congregation, 2 story, 125 x 145 ft., hollow tile, brick, terra cotta, etc., 16th and Louisiana Sts., to Herman & McCain Constr. Co., Reigler Bldg. Noted Mar. 12.

Federal Government Work

BIDS DESIRED

R. I., Newport—Chimneys, etc.—Apr. 22, by Quartermaster, Fort Adams, chimneys, roofing and sheet metal work, for Buildings 26, 27 and 28.

N. Y., Plattsburg—Platform, etc.—Apr. 27, by U. S. Engineer Office, Room 710 Army Bldg., 39 Whitehall St., New York City, stone platforms, steps, stairways, etc., in MacDonough Memorial, here; adv. E. N.-R. Apr. 16.

N. C., Thomasville—Post Office—May 7, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story, brick and tile post office, here; adv. E. N.-R. Apr. 16.

Miss., Vicksburg—Levee Work—Apr. 29, by Third Mississippi River Dist., P. O. Box 404, 950,000 cu.yd. levee work; adv. E. N.-R. Apr. 16.

Miss., Vicksburg—Rip Rap Stone—May 5, by Mississippi River Comn., P. O. Box 404, 40,000 tons rip rap stone.

Ky., Louisville — Metal Work — May 11, by U. S. Engineer Office, P. O. Box 72, metal work for Beartrap Weirs for Dam 45, Ohio River; adv. E. N.-R. Apr. 16.

Mich., Houghton—Post Office—May 6, by Treas. Dept. at office Supervising Archt., Wash., D. C., additional finish and plumbing in post office, here; adv. E. N.-R. Apr. 16.

New Mexico—Bridges—May 6, by C. H. Burke, Indian Affairs, Wash., D. C., constructing 2 steel highway bridges across Rio Grande River, at Cohiti and San Juan Indian Puebles, here.

California—Bridge—Apr. 15, by C. H. Sweetser, dist. engr. Bureau Pub. Rds., 9 Main St., San Francisco, 155 ft. deck steel truss bridge on concrete piers, with 125 ft. timber trestle approaches, over Salmon River, near Oak Flat, Siskiyou Co.

P. I., Canacao—Hospital—Spec. 5051—July 8, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing hospital, here; adv. E. N.-R. Apr. 16.

P. R., San Juan—Wall—May 6, by U. S. Engineer Office, War Dept., Wash., D. C., reconstructing wall at San Augustine battery, here.

BIDS RECEIVED

Mass., South Boston — Capstans — Spec. 5069—Bureau Yards & Docks, Navy Dept., Wash., D. C., capstan pits, Bollard foundations and pier, from Rendle Corp., 271 Marginal St., Chelsea, (1) $14,350 (2) $160. Noted Apr. 2.

Wash., Puget Sound — Roofing — Spec. 5100—Bureau Yards & Docks, Navy Dept., Wash., D. C., roofing portion of building 84, here, from J. G. Wethers, 720 33rd Ave., Seattle, (1) $1,689 (2) $1,772. Noted Apr. 2.

Calif., San Diego—Surfacing—Spec. 5089—Bureau Yards & Docks, Navy Dept., Wash., D. C., surfacing warming up platform, here, from R. E. Burgund, Beverly Hills, $2,390. Noted Mar. 26.

H. T., Pearl Harbor — Hangars — Spec. 5046—Bureau Yards & Docks, Wash., D. C., seaplane hangers, here, from Newport Contg. & Eng. Co., Newport News, Va., (1) $227,817 (2) $282,074 (3) $121,044 (4) $146,687 (5) $142,387 (6) $6,500 (7) $6,000 (8) $3,000 (9) $1,800 (10) $1,200 (11) $9,000.

CONTRACTS AWARDED

Ala., Florence—Roofing, etc.—U. S. Engineer Office, furnishing and laying bituminous roofing for power house lead gallery at Wilson Dam, here, to Hinkle Bros. Co., 2416 Ave. E., Birmingham, Ala., $9,893. Noted Mar. 19.

La., Thibodaux—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here, to Deams & Groggin, Williamstown, Mass., $29,870. Noted Apr. 9.

Unclassified

PROPOSED WORK

Playground—Dorchester (Boston P. O.), **Mass.**—Park Dept., 33 Beacon St., Boston, plans improving Mary Hemenway Playground, here. $25,000. J. J. Murphy, Park Dept., archt.

Grandstand — West Springfield (Springfield P. O.) **Mass.**—Eastern States Exposition, Worthington St., Springfield, having plans prepared for grandstand, 400 ft. long, here. $150,000. McClintock & Craig, 33 Lyman St., Springfield, engrs.

Land Development—Cranston, R. I.—See "Buildings—Educational, Religious."

Athletic Stadium — Buffalo, N. Y. — Bd. Educ. Genesee Bldg., plans rein.-con. athletic stadium, Main St. To exceed $200,000.

Telephone Line—North Carolina—Southern Bell Telephone Co., Asheville, plans reconstructing 98 mi. Asheville-Salisbury toll line circuit. $37,000. R. N. Pfaff, Asheville, mgr.

Dock—Baton Rouge, La.—City Having plans prepared by J. W. Billingsley, consult. engr., Interstate Bank Bldg., New Orleans, 550 ft. dock extension. $350,000.

Car Barns, etc.—Cleveland, O.—Cleveland Railway Co., G. L. Radcliffe, mgr., Hanna Bldg., plans 1 story car barns, West 117th St. opposite Thrush Ave., $520,000, 1 story car barn addition, Miles Ave., $380,000; 1 and 2 story street car station and barns, Kinsman Rd., $475,000, also at Center Rd. west of Warrensville Center Rd. $460,000, all brick and steel. Engineer and architect not selected.

Lighting System — Peoria, Ill. — Plans ornamental lighting system on 5 blocks North Adams St., each side, 10 standards to the block, with hand hold plate on concrete base 24 x 24 x 24 in., of 1 part Portland cement and 4 parts gravel, 300 watt Mazda C lamps, oval globes, switches, ariel or underground feed lines, wiring and cable system, etc. $5,000. J. J. Jeffries, City Hall, engr.

Stadium—Milwaukee, Wis.—School Bd., F. Harbach, secy., had plans prepared 50 x 360 ft., rein.-con. stadium, Windlake Ave. $100,000. Van Ryn & De Gelleke, 10th and Prairie Sts., engrs. Noted Dec. 11.

Stadium and Athletic Field—Omaha, Neb.—Creighton University, 25th and California Sts., plans concrete, brick and steel stadium and athletic field, 25th and California Sts. $250,000. J. Latenser & Sons, 732 Peters Trust Bldg., archts.

Grain Elevator — Kansas City, Mo. — Chicago & Alton R.R., 340 West Harrison St., Chicago, plans 1,000,000 bu. grain elevator in Lydia Ave. yards, here. R. A. Cook, ch. engr.

Gas Mains—Winslow, Ariz.—Plans improving and extending gas mains, etc., in various streets. $50,000 bonds sold.

Wharf — Richmond, Calif. — City had plans prepared (2nd unit) municipal wharf. $80,000. E. A. Hoffman, city engr. Noted Dec. 18.

Breakwater — Leamington, Ont. — Dept. Pub. Wks., Parliament Bldg., Ottawa, having plans prepared concrete and timber breakwater, here. $30,000. K. M. Cameron, Hunter Bldg., ch. engr.

Subway—Oshawa, Ont.—City and Canadian Natl. Ry., Union Sta., Toronto having plans prepared 4 track subway with concrete abutments and steel decks, under railroad tracks on Simcoe St. $50,000. S. C. Smith, city engr. T. T. Irving, ch. engr. Canadian Natl. Ry.

Harbor Improvements, etc.—Owen Sound, Ont.—Dept. Pub. Wks. Parliament Bldgs., Ottawa, plans harbor improvements and dredging in connection with new elevator. $83,000. K. M. Cameron, Hunter Bldg., ch. engr.

Subway — Port Credit, Ont. — Town and Toronto Twp. plan subway north of here to eliminate level crossing. $30,000. G. W. Gordon, town clk.

Bathing Pools, etc. — Toronto, Ont. — Making plans bathing station at Simcoe Park, $27,000; bathing pool in Sherwood Park, $14,000; wading pool and bleachers in Earlscourt Park, $5,200; and bathing shelter at Woodbine Park $3,000. R. C. Harris, city engr.

Breakwater, etc. — Toronto, Ont. — Dept. Pub. Wks., Parliament Bldgs., Ottawa, voted $200,000 bonds, completing concrete breakwater in front of Exhibition Park, and $81,000 bonds, for improving eastern entrance to harbor. K. M. Cameron, Hunter Bldg., ch. engr.

Subway—Toronto, Ont.—Canadian Pacific Ry., Windsor Sta., Montreal, Que., having plans prepared concrete and steel subway at Royce Ave., here. $160,000. B. Ripley, Toronto, dist. engr.

BIDS DESIRED

Street Lighting System—Portage, Wis. — Apr. 28, by C. J. Loomis, city clk., for ornamental street lighting system. C. H. Shepherd, 38 South Dearborn St., Chicago, Ill., consult. engr.; adv. E. N.-R. Apr. 16.

Retaining Wall—San Francisco, Calif.—See "Streets and Roads."

Weir — Sutter City, Calif. — Apr. 27, by State Reclamation Bd., Forum Bldg., Sacramento, constructing 98 ft. timber weir 12.5 ft. high in borrow pit of east levee of Sutter By-Pass, 4 mi. south of here. Private plans.

Steel Pipe—Vancouver, B. C.—Apr. 21, by J. Stuart, purch. agt. City Hall, 12 mi. riveted steel pipe, 26, 32 and 36 in. diam.

BIDS RECEIVED

Swimming Pool, etc.—Holyoke, Mass.—Bd. Pub. Wks., swimming pool and shelter house, Prospect St. Playground, from P. J. Kennedy & Co., Inc., 46 Park St., $21,000. Engrs. est. $30,000. Noted Mar. 26.

Electric Light Standards—Buffalo, N. Y.—Dept. Pub. Wks., Mar. 23, 1,200 white way standards from Union Metal Mfg. Co., 1432 Maple Ave., N. E., Canton, O., $42.50, alternate $45, and 1,000 parkway lighting standards from Canton Standard Mfg. Co., Canton, O., $26.87, both f.o.b. Canton, O., with freight prepared to Buffalo.

Tunnel Improvements—New York, N. Y.—New York State Bridge and Tunnel Comn. and New Jersey Interstate Brdige & Tunnel Comn., Woolworth Bldg., Apr. 7, glazed wall tile and enamels, slides, screws, frames, etc. for interior finish of Holland Tunnel, Contr. 7, from L. Del Turco & Bros. Inc., Harrison, N. J., 100% Domestic $909,180, 75% Domestic and 25% foreign $895,493, 50% Domestic and 50% foreign $881,865. Noted Mar. 26.

Park Improvements—Minneapolis, Minn.—Bd. Park Comrs., City Hall, improving Powderhorn Lake Par Sibley, Nicollet and Chicago Ave. Fields, from Andrews Paving Co., 3343 Colfax Ave., North Minneapolis, 85,749 ft. concrete curb at $0.58 per ft., 45,000 sq.yd. colored concrete sidewalks $1.29 and $1.33. Noted Mar. 19.

CONTRACTS AWARDED

Coal Shed, etc.—Manchester, Conn.—G. E. Willis & Son, Inc., 2 Main St., 40 x 150 ft. rein.-con. and steel coal shed, 20 ft. high, trestle, conveyor, spur track, tower, etc., Main St., to Gifford Wood Co., 24 Milk St., Boston, Mass. Archts. est. $50,000. Noted Mar. 19.

Inspection Sheds—New York, N. Y.—Bd. Transportation, 49 Lafayette St., constructing inspection shed in Westchester Ave. and 239th St. yards, to D. C. Serber, 1123 Bway., $512,248. Noted Apr. 9.

Gas Holder—Manitowoc, Wis.—Wisconsin Fuel & Light Co., R. C. Douglas, 808 South Commercial St., mgr., will build rein.-con., brick and steel gas holder, Chicago St., by day labor. $40,000.

Transmission Line—Texas—See "Buildings—Industrial under New Braunfels."

Plumbing and Heating—Denver, Colo.—See "Buildings—Commercial."

Street Lighting System — Culver City, Calif.—Street lighting system on portions of Adams St. and Washington Blvd., to H. H. Walker, 1800 West 12th St., Los Angeles, approximately $63,250.

CONSTRUCTION NEWS

Engineering News-Record, April 23, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded are the following big jobs:

Proposed Work

Chapel, Princeton, N. J., Princeton University having preliminary plans prepared, $1,500,000.

Mill, Kenora, Ont., Backus Brooks Co. plans mill, $1,500,000.

Apartment, Dallas, Tex., R. A. Nelson Co., having plans prepared, $1,500,000.

Terminal, Buffalo, N. Y., Cleveland-Buffalo Transit Co. plans buildings, to exceed $1,000,000.

Apartment, Chicago, Ill., D. Schetnity plans building, $1,000,000.

Dock, St. Johns, N. F. plans dock, $1,000,000.

Theater, Youngstown, O., Warner Bros. plans theater, $1,000,000.

Laundry, Miami Beach, Fla., Sanitary Cleaning Co. plans laundry, $1,000,000.

Libraries, Los Angeles, Calif., plans election for $1,000,000 bonds.

Bridge, New York, N. Y., City and N. Y. Central R.R. plan bridge, $1,000,000.

Apartment, New York, N. Y., Phipps Estate having plans prepared, $1,000,000.

Flood prevention and irrigation, Harlingen, Tex., Cameron Co. plans bond election, $800,000.

Bids Wanted On Big Jobs

Theater and office, St. Louis, Mo., Skousas Bros., April 27, $2,300,000.

Nurses Home, New York, N. Y., Mt. Sinai Hospital soon takes bids, $1,500,000.

Water works, Vancouver, B. C., May 6 by city clerk, $1,250,000.

Office, Dayton, O., May 5, Schenk & Williams, $1,000,000.

Large Contracts Let During Week

Hotel, Chicago, Ill., Hotel La Salle Co. to George A. Fuller Co. of N. Y. C. $18,000,000.

Subway, New York, N. Y., Bd. Transportation to J. F. Cogan Co., $4,190,000.

Dam, Quincy, Calif., Great Western Power Co., to Foundation Co. of San Francisco, $2,000,000.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
Apr. 25	Wrightsville Beach (Sea Gate P. O.), N. C.	Apr. 23
Apr. 27	Towson, Md.	Apr. 2
Apr. 27	Los Angeles, Calif.	Apr. 16
Apr. 27	Parshall, N. D.	Apr. 23
Apr. 28	Carthage, N. C.	Apr. 23
Apr. 28	Churchpoint, La.	Apr. 9
Apr. 28	Detroit, Mich. Adv. Apr. 16.	Apr. 16
Apr. 29	Cleveland, O.	Apr. 23
Apr. 29	New York, N. Y.	Apr. 23
Apr. 30	Ashland, Pa. Adv. Apr. 9 to 23.	Apr. 16
Apr. 30	Manitowoc, Wis.	Apr. 23
May 1	Marshfield, Wis.	Apr. 23
May 2	Green Bay, Wis.	Apr. 23
May 4	Stillwater, Minn.	Apr. 16
May 5	Wisconsin Rapids, Wis.	Apr. 23
May 5	Waseca, Minn.	Apr. 16
May 5	Drummondville, Que.	Apr. 23
May 5	Bayville, N. Y. Adv. Apr. 16 and 23.	Apr. 23
May 6	Vancouver, B. C.	Apr. 23
May 7	High Point, N. C. Adv. Apr. 16 and 23.	Apr. 9
May 7	Narrowsburg, N. Y. Adv. Apr. 23.	Apr. 23
May 11	Tallahassee, Fla. Adv. Apr. 9 to 23.	Apr. 9
	SEWERS	
Apr. 25	Sloan, N. Y.	Apr. 16
Apr. 26	St. Paul, Minn.	Apr. 23
Apr. 27	Crystal Beach, Ont.	Apr. 23
Apr. 27	Mamaroneck, N. Y. Adv. Apr. 23.	Apr. 23
Apr. 28	Hartford, Wis.	Apr. 23
Apr. 28	Tampa, Fla.	Apr. 9
Apr. 28	New York, N. Y.	Apr. 23
Apr. 28	Columbus, O.	Apr. 23
Apr. 29	East Chicago, Ill. Adv. Apr. 9 and 16.	Apr. 9
Apr. 29	Baltimore, Md.	Apr. 23
Apr. 29	Cleveland, O.	Apr. 23
Apr. 30	Cedar Rapids, Ia.	Apr. 23
Apr. 30	Morris, Ill.	Apr. 16
Apr. 30	Norwalk, Conn. Adv. Apr. 16 and 23.	Apr. 16
Apr. 30	Wallingford, Conn.	Apr. 16
Apr. 30	Leetonia, O.	Apr. 16
May 1	Cleveland, O.	Apr. 23
May 4	Gary, Ind. Adv. Apr. 23.	Apr. 23
May 4	Adrian, Mich. Adv. Apr. 23.	Apr. 23
May 5	Summit, N. J. Adv. Apr. 23.	Apr. 23
May 6	Peterboro, Ont.	Apr. 23
May 8	Louisville, Ky. Adv. Apr. 16 and 23.	Apr. 16
May 14	Buffalo, N. Y. Adv. Apr. 16 and 23.	Apr. 23
May 15	Springfield, Ill.	Apr. 16
June 1	River Grove, Ill.	Apr. 23
June 1	Deerfield, Ill.	Apr. 23
	BRIDGES	
Apr. 29	Canton, O.	Apr. 23
Apr. 29	Cleveland, O.	Apr. 23
Apr. 30	Brigden, Ont.	Apr. 23
Apr. 30	Dewar, Okla.	Apr. 23
May 1	Dayton, O. Adv. Apr. 9 to 23.	Apr. 9
May 1	Stevens Point, Wis.	Apr. 23
May 4	California	Apr. 23
May 4	Lewistown, Pa.	Apr. 23
May 5	Sweetwater, Tex.	Apr. 16
May 8	Dayton, O. Adv. Apr. 23.	Apr. 23
May 13	Alabama	Apr. 16
	RAILWAYS	
May 7	New Jersey Adv. Apr. 2, 9 and 23.	Apr. 2
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
Apr. 27	Leesburg, Fla.	Mar. 12
Apr. 27	St. James, Minn.	Apr. 23
Apr. 28	Granite Falls, Minn.	Apr. 16
Apr. 28	Hartford, Conn.	Apr. 23
Apr. 29	Tracy, Calif.	Apr. 16
Apr. 30	New York, N. Y.	Apr. 23
May 1	Henderson, Ky.	Apr. 9
	STREETS AND ROADS	
Apr. 24	New York, N. Y. Adv. Apr. 9 to 23.	Apr. 9
Apr. 24	Memphis, Tex.	Apr. 9
Apr. 24	Tennessee	Apr. 9
Apr. 24	Georgia	Apr. 9
Apr. 24	Madison, Wis.	Apr. 9
Apr. 24	Loup City, Neb.	Apr. 16
Apr. 24	Rhinelander, Wis.	Apr. 16
Apr. 24	Fond du Lac, Wis.	Apr. 16
Apr. 24	Nashville, Tenn.	Apr. 16
Apr. 24	Georgia	Apr. 16
Apr. 24	Missouri	Apr. 16
Apr. 25	Brownsville, Ky.	Apr. 16
Apr. 27	Seattle, Wash.	Apr. 9
Apr. 27	San Augustine, Tex.	Apr. 9
Apr. 27	Monmouth Beach, N. J.	Apr. 9
Apr. 27	New Jersey	Apr. 9
Apr. 27	California	Apr. 16
Apr. 27	Vermilion, S. D.	Apr. 16
Apr. 27	South Bend, Ind.	Apr. 16
Apr. 27	Long Island City, N. Y.	Apr. 23
Apr. 27	New York, N. Y.	Apr. 23
Apr. 27	Maryville, Mo.	Apr. 23
Apr. 27	Cardell, Okla.	Apr. 23
Apr. 27	Weleétka, Okla.	Apr. 23
Apr. 27	Green Bay, Wis.	Apr. 23
Apr. 27	Buffalo, N. Y.	Apr. 23
Apr. 27	Scotia, N. Y. Adv. Apr. 23.	Apr. 23
Apr. 27	Golden, B. C.	Apr. 23
Apr. 27	Milwaukee, Wis.	Apr. 23
Apr. 28	Paris, Tenn.	Apr. 23
Apr. 28	Hartford, Conn.	Apr. 23
Apr. 28	Oklahoma	Apr. 23
Apr. 28	Kingman, Kan.	Apr. 23
Apr. 28	Wisconsin	Apr. 23
Apr. 28	St. Paul, Minn.	Apr. 23
Apr. 28	Stratford, Ont.	Apr. 23
Apr. 28	Massachusetts	Apr. 23
Apr. 28	Virginia	Apr. 16
Apr. 28	Washington	Apr. 16
Apr. 28	Bartow, Fla.	Apr. 16
Apr. 28	North Dakota	Apr. 16
Apr. 28	Watooka, W. Va.	Apr. 16
Apr. 28	Massachusetts	Apr. 16
Apr. 28	New York, N. Y.	Apr. 23
Apr. 28	Maryland Adv. Apr. 23.	Apr. 23
Apr. 28	South Bend, Ind.	Apr. 23
Apr. 28	Louisiana	Apr. 23
Apr. 28	Merrill, Wis.	Apr. 23
Apr. 29	Providence, R. I.	Apr. 9
Apr. 29	Cape May, N. J. Adv. Apr. 9 to 23.	Apr. 9
Apr. 29	Nevada	Apr. 16
Apr. 29	Baltimore, Md.	Apr. 23
Apr. 29	Arkansas	Apr. 23
Apr. 29	Sulphur, Okla.	Apr. 23
Apr. 30	Denver, Colo.	Apr. 23
Apr. 30	New York, N. Y.	Apr. 23
Apr. 30	Brooklyn, N. Y.	Apr. 23
Apr. 30	Portland, Ind. Adv. Apr. 23.	Apr. 23
Apr. 30	Alpine, Tex.	Apr. 16
Apr. 30	North Dakota	Apr. 16
Apr. 30	Louisiana	Apr. 16
Apr. 30	Omaha, Neb.	Apr. 23
Apr. 30	Michigan	Apr. 23
May 1	Birmingham, Ala.	Apr. 9
May 1	Pennsylvania Adv. Apr. 16 and 23.	Apr. 16
May 1	Forest Park, Ill. Adv. Apr. 23.	Apr. 23
May 2	Franklin, Tex.	Apr. 16
May 2	Pennsylvania Adv. Apr. 16 and 23.	Apr. 16
May 2	Tuscumcari, N. M.	Apr. 23
May 4	New York Adv. Apr. 16 and 23.	Apr. 23
May 4	California	Apr. 23
May 4	Los Angeles, Calif.	Apr. 23
May 4	Martinez, Calif.	Apr. 23
May 4	North Dakota	Apr. 16
May 4	North Dakota	Apr. 23
May 4	Brooklyn Heights (mail Independence), O.	Apr. 23
May 4	New Jersey Adv. Apr. 23.	Apr. 23
May 4	Lake Placid, N. Y. Adv. Apr. 23.	Apr. 23
May 4	Arizona	Apr. 23
May 4	Adams, Mass. Adv. Apr. 23.	Apr. 23
May 4	Rensselaer, Ind	Apr. 23
May 4	Scarsdale, N. Y. Adv. Apr. 16 and 23.	Apr. 23
May 4	Westfield, N. Y. Adv. Apr. 16 and 23.	Apr. 23
May 5	Tecumseh, Neb.	Apr. 23

Bids Close		See Eng. News-Record
May 5	North Carolina Adv. Apr. 23.	Apr. 23
May 5	Plymouth, Ind.	Apr. 23
May 5	Warsaw, Ind.	Apr. 23
May 5	Ft. Wayne, Ind.	Apr. 23
May 5	Columbia, Ind.	Apr. 23
May 5	Maryland Adv. Apr. 23.	Apr. 23
May 5	North Dakota	Apr. 23
May 5	Hartford, Wis.	Apr. 23
May 5	Winona, Miss.	Apr. 23
May 5	Primghar, Ia.	Apr. 23
May 5	St. Louis, Mo.	Apr. 16
May 5	Sweetwater, Tex.	Apr. 16
May 5	New York, N. Y. Adv. Apr. 16 and 23.	Apr. 16
May 6	San Francisco, Calif.	Apr. 16
May 6	Williamstown, Ont.	Apr. 23
May 6	North Dakota	Apr. 23
May 7	Louisiana	Apr. 23
May 7	North Dakota	Apr. 23
May 7	Broken Bow, Neb.	Apr. 23
May 8	Hebron, Neb.	Apr. 23
May 11	New Jersey Adv. Apr. 23.	Apr. 23
May 13	North Dakota	Apr. 23
May 13	Alabama	Apr. 9
May 13	Homer, La.	Apr. 23
May 13	Ithaca, N. Y. Adv. Apr. 23.	Apr. 23
May 15	Fayette, W. Va. Adv. Apr. 23.	Apr. 23
May 15	Duluth, Minn.	Apr. 9
May 15	Lake Forest, Ill.	Apr. 23
May 20	Cape May, N. J. Adv. Apr. 23.	Apr. 23
June 1	Duluth, Minn.	Mar. 12
June 10	Duluth, Minn.	Apr. 9

BUILDINGS—INDUSTRIAL

Apr. 24	New York, N. Y.	Apr. 16
May 4	White Plains, N. Y. Adv. Apr. 23.	Apr. 23
May 6	Rapid City, S. D.	Apr. 23
May 8	Neopit, Wis.	Apr. 16

BUILDINGS—COMMERCIAL

Apr. 24	York, Pa.	Apr. 16
Apr. 27	Milwaukee, Wis.	Apr. 23
Apr. 27	St. Louis, Mo.	Apr. 23
Apr. 27	Phila., Pa.	Apr. 23
Apr. 27	Tarkio, Mo.	Apr. 23
Apr. 27	Scranton, Pa.	Apr. 23
Apr. 27	Baltimore, Md.	Apr. 23
Apr. 28	Lincoln, Neb.	Apr. 2
Apr. 29	Columbus, O.	Apr. 23
May 1	Johnstown, Pa.	Mar. 19
May 1	Clinton, N. J.	Apr. 23
May 5	Dayton, O.	Apr. 23
May 6	Pickering, N. C.	Apr. 23
May 7	San Antonio, Tex.	Mar. 26
May 11	Asyla (mail Grenlock), N. J.	Apr. 23
May 14	Thiells, N. Y. Adv. Apr. 23.	Apr. 23
June 2	Walters, Okla.	Apr. 23
July 14	Phila., Pa.	Feb. 19

BUILDINGS—EDUCATIONAL, RELIGIOUS

Apr. 28	Hannibal, Mo.	Apr. 23
Apr. 30	Valley City, N. D.	Apr. 16
May 1	Akron, O.	Apr. 16
May 1	Cranston, R. I.	Apr. 23
May 4	Great Neck, N. Y.	Apr. 16
May 4	Toronto, Ont.	Apr. 23
May 14	Hillside, N. J. Adv. Apr. 23.	Apr. 23
May 15	South Charleston, D.	Apr. 23
June 10	Evanston, Ill.	Apr. 23

FEDERAL GOVERNMENT WORK

Apr. 27	Platform—Plattsburg, N. Y.	Apr. 16
Apr. 27	Road—Oklahoma	Apr. 23
Apr. 28	Earthwork — St. Louis, Mo. Adv. Apr. 2 to 23.	Apr. 2
Apr. 28	Post Office—Russellville, Ark.	Apr. 9
Apr. 29	Metal Work—Louisville, Ky. Adv. Apr. 9 to 23.	Apr. 9
Apr. 29	Paving — Pearl Harbor — H. T.	Apr. 9
Apr. 29	Power Line—Galveston, Tex.	Apr. 9
Apr. 29	Bridge—Great Lake, Ill.	Apr. 9
Apr. 29	Levee Work—Vicksburg, Miss. Adv. Apr. 16 and 23.	Apr. 16
Apr. 29	Improvements—Fort Wright (Fishers Island P. O.) N. Y. Adv. Apr. 16 and 23.	Apr. 23
Apr. 30	Borings—Detroit, Mich. Adv. Apr. 2 to 23.	Apr. 2
Apr. 30	Steel Barges—Milwaukee, Wis. Adv. Apr. 2 to 23.	Apr. 2
Apr. 30	Dredging—Detroit, Mich. Adv. Apr. 2 to 23.	Apr. 9
May 1	Dredging — Providence, R. I. Adv. Apr. 2 to 23.	Apr. 2
May 4	Breakwater—Duluth, Minn. Adv. Apr. 9 to 23.	Apr. 9
May 5	Rip Rap Stone—Vicksburg, Miss.	Apr. 16
May 5	Hospital—Mobile, Ala.	Apr. 23
May 6	Chimney—Brooklyn, N. Y. Adv. Apr. 23.	Apr. 23
May 6	Post Office—Houghton, Mich.	Apr. 16
May 6	Wall—San Juan, P. R.	Apr. 16
May 7	Dam-Newburg, Ind. Adv. Apr. 9 to 23.	Apr. 9
May 7	Post Office—Thomasville, N. C. Adv. Apr. 16 and 23.	Apr. 16
May 11	Metal Works—Louisville, Ky.	Apr. 16
May 11	Post Office—Mystic, Conn.	Apr. 23
May 11	Rip Rap Stone—Memphis, Tenn.	Apr. 23
May 11	Dredge—Wash., D. C.	Apr. 23
May 15	Breakwater—Duluth, Minn. Adv. Apr. 23.	Apr. 23
May 16	Hull for Towboat—Rock Island, Ill. Adv. Apr. 23.	Apr. 23
May 20	Post Office—Fayette, Mo. Adv. Apr. 23.	Apr. 23
May 27	Tow-boat—St. Louis, Mo.	Apr. 23
July 8	Hospital—Canacao, P. I. Adv. Apr. 16 and 23.	Apr. 16

UNCLASSIFIED

Apr. 27	Transmission Line—Oklahoma	Apr. 23
Apr. 28	Street Lighting System—Portage, Wis.	Apr. 16
Apr. 29	Wall—Peru, Ind.	Apr. 2
Apr. 30	Stadium—Milwaukee, Wis.	Apr. 23
May 1	Grain Elevators—Regina, Sask.	Apr. 23
May 7	Subway—New York, N. Y.	Apr. 23
May 8	Tunnel—New York, N. Y.	Mar. 5

MATERIAL AND EQUIPMENT

Apr. 27	Road Maintainers, etc.—Madison, S. D.	Apr. 23
Apr. 27	Pump, heaters, etc.—Chicago, Ill.	Apr. 23
Apr. 28	Ford tractors, etc.—Chicago, Ill.	Apr. 23
Apr. 29	Trucks—Long Island City, N. Y.	Apr. 23
Apr. 29	Steam Cinders—Brooklyn, N. Y.	Apr. 23
Apr. 29	Crushed Limestone—Minneapolis, Minn.	Apr. 23
May 5	Pipe—Port Arthur, Tex.	Apr. 23

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Aurora—Plans waterworks system.

W. Va., Parkersburg—Election May 26, $300,000 bonds, new waterworks. J. V. Dunbar, Parkersburg, engr.

N. C., Newton—Making preliminary surveys extending water and sewerage systems and street improvements, etc. Spoon & Lewis, 407-9 Amer. Bank Bldg., Greensboro, consult. engrs.

S. C., Florence—Defeated $250,000 bonds, waterworks improvements. Noted Feb. 26.

Miss., Hernando — Voted $20,000 bonds, for waterworks, incl. pumping equipment and distribution system.

Miss., Winona—See "Streets and Roads."

La., Donaldsonville — Apr. 21, $70,000 bonds for combination water and electric light plant, pumping equipment, mains, etc. Address Mayor.

O., Akron—See "Sewers."

Mich., Ferndale—Making plans extending mains in various streets. $100,000 bonds voted. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Kan., Haviland — Voted $30,000 bonds for waterworks. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs. Noted Mar. 26.

Kan., Larkin—Voted $33,000 bonds for waterworks. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs. Noted Mar. 26.

Neb., Alliance—Making preliminary plans water and light improvements. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.

Mo., Ash Grove — Voted $50,000 bonds, waterworks improvements.

Mo., Crane—Making preliminary plans waterworks, incl. pumping equipment tank on tower, mains, etc. To exceed $15,000. C. A. Haskins, 822 Finance Bldg., Kansas City, engr.

Mo., Shelbina—Plans extending c.i. pipe line. $35,000. Engineer not selected.

Ark., Cotton Plant—Takes bids in June, waterworks improvements, incl. tank on tower, distribution mains, etc., also sanitary sewerage system. $125,000. E. T. Archer & Co., 612 New England Bldg., Kansas City, Mo., engrs. Noted Nov. 27.

Tex., Bay City — Making preliminary plans waterworks extensions, incl. mains, pumping equipment, etc. $60,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Comanche—Election soon $50,000 additional bonds for waterworks. $70,000 already available. J. B. Hawley, Cotton Exch. Bldg., Ft. Worth, engr. Noted Feb. 12.

Tex., Denton—Plans new tank on tower for waterworks. $20,000. Engineer not announced.

Tex., Dilley—Takes bids after May 1, complete waterworks, incl. distribution system, 50,000 gal. elevated tank, tower, pumping equipment, etc. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Mar. 19.

Tex., Lockhart — Election soon $60,000 bonds, waterworks improvements. Jno. B. Hawley, Cotton Exch. Bldg., Ft. Worth, engr.

Tex., San Antonio—State plans pumping plant, incl. equipment, etc., at Southwestern Insane Asylum. $36,000 appropriated. Engineer not selected.

Tex., Vernon—Election Apr. 21, $15,000 bonds for waterworks improvements. Engineer not announced. H. Mason, mayor.

Tex., Wharton — Making preliminary plans waterworks extensions, incl. mains, pumping equipment, probably new well, etc. $40,000. Terrell Bartlett, Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Okla., Blanchard—Voted $37,000 bonds, new waterworks, incl. deep well, pump, tank on tower, mains, valves, hydrants, etc. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs. Noted Apr. 2.

Okla., Eufaula — Election soon $25,000 bonds for new 500,000 g.p.d. rapid sand filter plant and equipment. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 16.

Okla., Kremlin — Making preliminary plans new waterworks, incl. well, mains, valves, etc. $30,000. F. B. King, Grain Exch. Bldg., Oklahoma City, engr.

Okla., Lawton—Soon takes bids filtration plant and reservoir at Lake Latonka. $80,000. H. T. Olmsted & Co., 2230 West 18th St., Oklahoma City, engrs. Noted Mar. 19.

Okla., Muskogee—Election soon $125,000 bonds new 6 m.g. rapid sand filter plant with basins, motor driven pumps, and pumping equipment. J. R. March, Muskogee, engr.

Okla., Red Fork — Voted $50,000 bonds, new waterworks with supply from Tulsa, incl. mains, valves, etc. Holway Eng. Co., Wright Bldg., Tulsa, engrs.

Okla., Stigler—Making preliminary plans new filtration plant, pumping equipment and raising present dam at reservoir. $35,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Waurika — Making preliminary plans new impounding reservoir, earth dam, concrete spillway, gravity flow line and 10,000 ft. 10 in. c.i. pipe, etc. $100,000. Engineer not selected. C. S. Storms, mayor.

Ariz., Gilbert — Plans election $40,000 bonds for waterworks.

Que., Knowlton — Making plans c.i. gravity system. $15,000. J. E. Fay, town engr.

Ont., Campbellford — Water & Light Comn. plans fire pump. $8,000. S. J. Abernethy, chn. Engineer not selected.

Ont., Humberstone—Making plans 10,000 ft. c.i. mains electric pumps, chlorinators, reservoir and pumphouse. $30,000. A. W. Connor & Co., Royal Bank Bldg., Toronto, engrs. Noted Apr. 9.

Ont., North Bay—Plans 7,500 ft. 12 in. c.i. main in Fisher St. between Duke St. and 1st Ave. $30,000. F. G. Mackie, town engr.

Ont., Waterford—Takes bids about May 1, mains, pumps, etc. $55,000. C. G. Fairchild, 169 Colborne St., Brantford, engr.

BIDS DESIRED

N. Y., Bayville—May 5, by Bd. Village Trustees, water distribution system. S. B. Bowne, Mineola, engr.; adv. E. N.-R. Apr. 23.

N. Y., Narrowsburg — May 7, by Bd. Water Comrs. Narrowsburg Water Dist. gravity waterworks system. J. F. Witmer, 112 Davis St., Elmira, engr.; adv. E. N.-R. Apr. 23.

N. Y., New York — Apr. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Westchester Esplanade, Yznaga Pl., Bronx Blvd.,

Waterworks (Continued)

Glover, Paine and East 221st Sts. Allerton, Bouck, Crosby, Hobart, Hollywood, Mace, Muliner, Park, View, Roberts, Rosedale, Van Nest and Waterbury Aves.

N. C., Carthage—Apr. 28, by city, 200,000 gal. rein.-con. reservoir and 16 ft., 19 ft. or 21 ft. steel stand pipe 100 ft. high, also 32 x 62 ft. brick fire station. Carolina Eng. Co., Charlotte, engrs.

N. C., Wrightsville Beach (Sea Gate P. O.)—Apr. 25, by Comrs. Town Bd. at office of R. H. Northrop, city clk., 124 Princess St., Wilmington, one 100,000 gal. steel tank on 100 ft. steel tower with necessary foundations. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, engrs.

O., Cleveland — Apr. 29, by Bd. Comrs. Cuyahoga Co., 7,500 ft., c.i. pipe 12 in., for mains in Wallings Rd. east of McCreary Rd., Impvt. 86, in Co. Sewer Dist. 2. To exceed $25,000. F. R. Williams, Court House, engr.

Ill., Chester—Apr. 25, by City Clerk, filtration plant, etc. $30,000. P. B. Wilson, Marion, engr.

Wis., Green Bay — May 2, by J. Du Charne, town clk., waterworks, incl. machinery and equipment, 500 g.p.m. motor driven pumps, 1 flow meter, gasoline driven auxiliary outfits, 100,000 gal. steel tank on 120 ft. steel tower, 15,582 ft. 6- to 10-in. c.i. pipe, 7 tons fittings, valves, etc, near here, for Allonez Twp. To exceed $15,000. McMahon & Clark Eng. Co., Menasha, engrs.

Wis., Manitowoc—Apr. 30, by A. H. Zander, city clk., 9,000 ft. 4- to 10-in. c.i. pipe and standard fittings. Alternate bids on DeLavard and B & S Class C pipe. Noted Apr. 16.

Wis., Marshfield—May 1, by J. A. Schindler, city clk., 7,307 ft. 6 in. c.i. mains and 4,400 ft. 8 in. sanitary sewers in various streets. To exceed $15,000. A. Westenborg, City Hall, engr.

Wis., Wisconsin Rapids—May 5, by C. P. Cross, mgr., 61 x 71 ft., brick and rein.-con. iron removal plant, chemical feed machines, filter equipment, piping and pumps, water tank and filters, etc. $60,000. W. G. Kerchoffer, Dean Bldg., Madison, engr. Noted Mar. 19.

N. D., Parshall—Apr. 27, one centrifugal pump and 40 hp. motor. A. O. Fuglie, city aud.

Que., Drummondville—May 5, by C. H. Lalonde, 31 Heriot St., constructing mechanical gravity water filtration plant. A. Plamondon, 70 St. James St., Montreal, engr.

B. C., Vancouver—May 6, by City Clerk, City Hall, 14 mi. 36 in. steel riveted mains, etc., in various streets. $1,250,000. C. Brackenridge, city engr.

BIDS RECEIVED

Mass., Boston — City, high pressure fire pipes in Summer St., etc., from V. Barletta, 22 Hull St., $77,707. Noted Apr. 9.

N. Y., Buffalo—Commissioner Pub. Wks., c.i. pipe and special castings for filter plant, Contr. 25, from U. S. Cast Iron Pipe & Fdry. Co., East Ferry St., 325 tons material under Schedule M $46 per ton, 63 tons material, Schedule N $105, and 42 tons material Schedule O, $176.60.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Apr. 20, mains in 107th, 120th, 218th, Sts., etc., here, from J. A. Gregory, 351 East 124th St., New York City, $16,973. Noted Apr. 16.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Apr. 14, mains, etc., in Amsterdam, 3rd and 11th Aves., from Knight & DeMicco, 448 East Tremont Ave., $62,526. Noted Apr. 9.

Pa., Phila. — Dept. Pub. Wks., Bureau Water, Apr. 7, Contr. 746 seventy-three 8- to 12-in. high pressure stop valves, 37 fire hydrants, from A. R. Smith Mfg. Co., Norman St., East Orange, N. J., $16,119; Contr. 749, two complete connections, etc., from M. and J. B. McHugh, 892 North Markoe, $5,625; Contr. 751, miscellaneous piping for Torresdale Sta., from Acme Machine Co., 316 North 17th St., $6,700. Noted Apr. 2.

O., Cleveland Heights (Warrensville P. O.)—See "Sewers."

Wis., Milwaukee — D. W. Hoan, chn. Central Bd. Purchase, Apr. 14, 2,500 tons 6, 8 and 12-in. Class "C" c.i. mains, from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., $46.50 per ton.

Calif., San Diego—San Diego Water Co. & Escondido Mutual Water Co., 4.5 mi. bench type, flume, etc., from Lake Escondido to point east of Visa, to D. H. Ryan, 215 6th St., San Diego, $168,819.

CONTRACTS AWARDED

Mass., Boston—Supply Dept., twelve 36 in. gate valves for Water Dept., to Atlantic Wks., 80 Border St., East Boston, $1,690. Noted Apr. 16.

O., Cincinnati—Director Pub. Serv. relining west basin of Eden Park Reservoir with 300,000 sq.ft. gunite, to W. S. Rae, Oliver Bldg., Pittsburgh, Pa., $142,850. Engrs. est. $175,000. Noted Apr. 16.

O., Cincinnati—Director Pub. Serv., 19,110 ft. 6- to 20-in. c.i. mains in connection with water distribution system in North Bend and Morton Rds., 71st and 72nd Sts., to W. Henningan, 7011 Montgomery Park, Norwood, $38,665. Engrs. est. $45,000. Noted Apr. 9.

Ill., Riverside — Waterworks improvements, incl. 52,500 ft. 4- to 16-in. c.i. pipe, 88 hydrants, 123 gate valves and boxes, 374 connections, etc., to Kuehn Bros., 255 North Ave., Aurora, $159,383.

Wis., Fond du Lac—Bd. Pub. Wks., J. F. Hohensee, secy., superstructure for 1 story, 44 x 160 ft., brick and concrete pumping station addition, to Immel Constr. Co., Dana Bldg., $19,624. Noted Mar. 26.

Minn., Virginia—City pipe and fittings for mains to connect well No. 1 of Oliver Mining Co. with city system, to M. McLeod Constr. Co., Virginia, $9,700; and labor, to C. A. Johnson & Carlson, Virginia, $6,300.

Ariz., Flagstaff—City Clerk, 50 m.g. rein.-con. reservoir, to C. E. Green, Western Mutual Life Bldg., Los Angeles, $173,000; approximately 79,000 ft. 13- to 16-in. steel or concrete pipe line, to Cook & O'Brien Constr. Co., 242 Railway Exch. Bldg., Kansas City, Mo., $144,000; improving distribution system, to Irich & Fredell, Plainview, Tex., $97,000. Noted Mar. 12.

Sewers

PROPOSED WORK

N. Y., Albany — Bd. Control & Supply takes bids about Apr. 30, 2 mi. trunk sewer in Whitehall Rd., Delaware and New Scotland Aves. $500,000. J. G. Brennan, city engr.

Va., Danville—See "Buildings—Educational, Religious."

N. C., Newton—See "Waterworks."

Ga., Ft. Valley — Election soon $30,000 bonds, sewerage system.

Miss., Winona—See "Streets and Roads."

Ky., Paducah—Making preliminary plans sewerage system. To exceed $25,000. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs.

O., Akron—Bd. Control takes bids about May 13, rebuilding sewers and water lines at Buchtel Ave., East Exchange and East Center St. grade crossings. W. F. Peters, dir. Pub. Serv.

Mich., Detroit—Made plans vitr. crock sewers in 1,397 ft. 12- to 18-in. Lateral 4348, 4,106 ft. 12- to 24-in. Lateral 4344, 1,483 ft. 12- to 18-in. Lateral 4342, 2,317 ft. 15- to 24-in. Lateral 4331, 2,083 ft. 12- to 24-in. Lateral 4321 and 1,974 ft. 15- to 18-in. Lateral 4316. G. Jerome, city engr.

Mich., Springwells—Making plans 20,000 ft. 12- to 27-in. vitr. crock and concrete lateral sewers in various streets. $80,000. Hubbell, Hartgering & Roth, 2348 Penobscot Bldg., Detroit, engrs.

Ill., Lake Forest—City Clerk takes bids about May 15, 6,025 ft. 6- to 12-in. tile sewers, etc., in Hields Lake Forest and Ravine Park. $25,000. N. L. Campbell, city engr.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., made plans Mud Creek low level sewer in North Milwaukee, approximately 1.75 mi. 12- to 24-in. terra cotta pipe; Arnold Ave., low level sewer, approximately 5,730 ft. 12- to 21-in. terra cotta pipe; Menomonee Valley extension approximately 1.5 mi. 18 and 24 in. terra cotta pipe; Whitefish Bay extension, approximately 9,350 ft. 42 in. monolithic concrete pipe. T. C. Hatton, c/o owner, engr.

Ia., Waterloo—Making sketches 2 sewage disposal plants. $400,000. R. B. Shippy, Waterloo, engr.

Kan., Haviland — Voted $33,000 bonds for waterworks. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

Kan., Larkin—Making preliminary plans complete sanitary sewerage system. $38,500. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

Mo., Owensville—Defeated $50,000 bonds, complete sanitary sewerage system, disposal plant, etc. Noted Feb. 26.

Mo., St. Louis—See "Streets and Roads."

Mo., West Plains—Made plans sewers in various streets. $50,000 bond election soon for same. Russell & Axon, 412 McDaniels Bldg., Springfield, engrs.

Ark., Cotton Plant—See "Waterworks."

Okla., Fairfax—Making preliminary surveys 15,000 ft. sanitary sewers in 7th, McKinley, Ash and Roosevelt Sts., Sanitary Sewer Dist. 15. $25,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Petaluma—Plans election $200,000 bonds, rehabilitation and extensions to sewerage system. Howe & Peters, 24 California St., San Francisco, engrs. Noted Apr. 16.

Ont., Toronto — East York Twp. plans 5,000 ft. 15 in. concrete and vitr. tile sewer in Gamble Ave. $30,400. G. R. Jack, Municipal Yard, Sammon Ave., engr.

Ont., Toronto—East York Twp. making plans rein.-con. and vitr. sewers in Sammon Ave. $26,254, Durant Ave. $8,185, Somers Ave. $4,110. Work involves 2,258 ft. 12- to 30-in. pipe. G. R. Jack, Sammon Ave., engr.

Ont., Toronto—York Twp., 40 Jarvis St., plans 6,500 ft. 12 in. vitr. tile or concrete storm and sanitary sewers in Vaughan Rd. $66,000. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto—York Twp. plans 3,500 ft. 12 in. rein.-con. and vitr. tile sewers in Rogers Rd. $20,420, and Weston Rd. $20,365. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto—York Twp. plans 7,500 ft. 8 in. vitr. tile sewers in Eglinton Ave. and Keele St. from Hillary to Ypres Aves. $30,000. F. B. Goedike, 40 Jarvis St., engr.

BIDS DESIRED

N. Y., Buffalo—May 14, by Commissioner Pub. Wks., Municipal Bldg., rein.-con. storm sewer to care for storm water of Scajaquada Creek (Sect. 3.); adv., E. N.-R. Apr. 16.

N. Y., Mamaroneck — Apr. 27, by Bd. Sewer Comrs., 2,600 ft. c.i. and vitr. sewers, Contr. 10. H. R. Mitchell, secy.; adv. E. N.-R. Apr. 23.

N. Y., New York—Apr. 28, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Morris Ave., etc.

N. J., Summit — May 5, by Common Council, City Hall, 7,515 ft. 20 in. c.i. sewer force main. J. C. Brigham, city engr.; adv. E. N.-R. Apr. 23.

Pa., Pittsburgh—Dept. Pub. Wks., City County Bldg., taking bids main trunk sanitary sewers in Saw Mill Run Drainage Basin. $195,000.

Md., Baltimore—Apr. 29, by Bd. Awards, storm water drains and sanitary sewers in Sewer Dist. H-9, Storm Water Contr. 85. B. L. Crozier, City Hall, highway engr.

O, Cleveland—Apr. 29, by City, sewers in Rutland Rd., East 133rd, West 150th and 151st Sts., Columbine Ave., Kuhlman Ave. N. E., Lyric Ave. S. W., Ozark Ave. N. E., Rosemary Ave. and Warren Rd. N. W., etc. R. Hoffman, City Hall, engr.

O., Cleveland—May 1, by City, sewage disposal system, etc., at Highland Park Golf Course. To exceed $25,000. H. Kregelius, City Hall, engr.

O., Columbus—Apr. 28, 2,000 ft. 48 in. sewer in Wheatland Ave., 3,012 ft. 30 and 78 in. sewer in Richardson Ave., and 1,896 ft. 15- to 24-in. sewer in Mound St. $70,000. R. H. Simpson, city engr.

Ind., Gary—May 4, by Bd. Pub. Wks., M. Maloney, clk., sewage pumping station and appurtenent construction. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., consult. engrs.; adv. E. N.-R. Apr. 23.

Mich., Adrian — May 4, by G. P. Love, city clk. intercepting and trunk sewers, also force main. Hoad, Decker, Shoecraft & Drury, Ann Arbor, consult. engrs.; adv. E. N.-R. Apr. 23.

Ill., Deerfield — June 1, by City Clerk, Northwest Side sewerage system, $55,000; East Side Sewerage system, incl. manholes, catch basins, etc., $100,000, and disposal plant $18,205'. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs. Noted Feb. 19.

Ill., River Grove—June 1, by Bd. Selectmen, Southwest Side sewerage system. $60,000. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs. Noted Feb. 10.

Wis., Hartford—Apr. 28, by W. Radtke, city clk., rein.-con. and steel pumping station, 50 g.p.m. air sewage ejector, 740 ft. 1¼ c.i. screw pipe air line; 1,159 ft. 4 and 8 in. vitr. sanitary and 40 lin.ft. 24 in. vitr. and 2,000 ft. 10- to 16-in. c.i. storm sewer, etc., in various streets. To exceed $25,000. J. Donohue Eng. Co., North 8th St., Sheboygan, engrs.

Wis., Marshfield—See "Waterworks."

Ia., Cedar Rapids — Apr. 30, by L. J. Storey, city clk., City Hall, 3,588 ft. 4½- to 6-in. segmental block pipe, 4,480 ft. 4½- to 6½-in. 2 ring brick pipe, 66,820 ft. concrete pipe, 13 manholes, etc. $65,000. T. F. McCauley, city engr.

Minn., St. Paul—Apr. 28, by H. W. Austin, city purch. agt., 5,388 ft. 9- and 24-ft. circular sewer, 67 ft. 3.5 ft. sewer, etc., for Belt Line outfall, Contr. G. $150,000. G. M. Shepard, city engr.

Calif., Los Angeles—Bd. Pub. Wks. taking new bids Sect. 24-North Outfall Sewer, approximately 13,668 lin.ft. pipe. Former bids rejected. A. K. Warren, City Hall engr. Noted Apr. 9.

Sewers (Continued)

Ont., Crystal Beach — Apr. 27, by J. O. Page, clk., 3,515 ft. 10, 12 and 18 in. storm and sanitary sewers. $25,000. Ross & Scott, Welland, engrs.

Ont., Peterboro—May 6, by S. A. Armstrong, city clk., City Hall, Simcoe St., activated sludge sewage disposal plant, pipe line across Otonabee River, concrete and brick sewage pumping station, grit chambers, aeration tanks, settling tanks; 3 sewage pumps with motors; 3 air compressors; air piping, etc., $75,000. E. H. Parsons, city engr.

BIDS RECEIVED

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Apr. 7, from O'Neil Co., 127 East Mermaid St., main sewer in Custer Ave. $107,355, Loretta Ave. $77,176; from A. Botitatibus, Ardleigh St. $4,085, Durham St. $6,605; from Perna Constr. Co., 301 North 65th St., Almond St. $2,503, Mercer St. $2,490, N St. $7,384, Salmon St. $3,869, Sepviva St. $2,902, 2 sections of Thompson St. $2,437 and $4,442, Webb St. $2,690; from V. S. Campelone, 812 West Venango St., Bath St. $2,301, Gaul St. $2,290; from J. J. McHugh, 1617 Race St., Balfour St. $5,515, Durand St. $6,793; from Higgins & Reilly Co., 601 Real Estate Trust Bldg., Diamond St. $10,659, 52nd St. $15,856; from Pacifico Ventres Co., 4th St. $7,919 Wyncote St. $13,448; from McCoal Constr. Co., 5033 Duffield St., Janney St., $2,349; from Vattieri & Pontarelli, 3rd St. $2,830; from Vare Constr. Co., 1120 Race St., Champlost St. $59,729; from Bardi & Pinciotti, 1329 Taske St., Sanger St. $29,149; from Darco Contg. & Building Co., 1213 Snyder Ave., Bigler St. $5,739; A. V. Peter & A. J. Ellis, McKean St. $11,261; from A. Perna & Son, Naomi St. $9,004, Victoria St. $1,710; from J. Moss, Valette St. $2,820; from Lombardi Co., Wallace St. $3,125. Noted Apr. 2.

O., Akron—W. F. Peters, dir. Pub. Serv., 330 ft. 15- to 24-in. vitr. clay and 3,320 ft. 30- to 60-in. brick trunk sewer in Gorge Blvd. Dist., from F. George, 1657 Mahoning Ave., Youngstown, $85,155. Engrs. est. $108,600. Noted Apr. 2.

O., Cleveland—For 535 ft. 6A, 1,500 ft. 5C, 684 ft. 4C, and 375 ft. 3C brick or rein.-con. sewer in Bellaire Rd., from W. B. Smith, 706 The Arcade, brick $57,074, rein.-con. $55,778; 2,010 ft. 12 in. tile sewer in Stickney Ave. Sect. 1, from Shannon & O'Shea, 3380 West 135th St., $5,733; 2,810 ft. 24 in. tile sewer in Stickney Ave. Sect. 2, to Langahan Constr. Co., Marshall Bldg., $20,526; sewer in Hirst Ave., from E. Cesa & Son, 2462 Mayfield Rd., $12,495. Noted Mar. 26.

O., Cleveland — Cuyahoga Co., 12,200 ft. 8- to 20-in. tile sewer in Impvt. 304, from Hadded-Mall Co., Schofield Bldg., $26,384. Noted Apr. 2.

O., Cleveland Heights (Warrensville P. O.)—City, sewers and watermains in 1 street, from A. Marra Constr. Co., Ulmer Bldg., Cleveland, $10,849; 3 streets, from Iafornaro & Son, 2218 Murray Hill Rd., Cleveland, $65,798; and 2 streets, from Khury Constr. Co., 3511 Walton Ave., Cleveland, $22,538. Noted Mar. 26.

Calif., Oakland — For 7th St. outfall sewer, 3,232 ft. 5 x 5 ft., 775 lin.ft. 4.5 x 4.5 ft. concrete sewer on timber foundation, 250 lin.ft. 4 x 4 ft. rein.-con. sewer on timber foundation, 830 lin.ft. 24- and 30-in. concrete and 2,398 ft. 8- to 21-in. vitr. pipe, also 337 ft. 10 in. vitr. pipe conduit, etc., from J. Currie, 1100 Peninsula Ave., Burlingame, $198,634. Noted Mar. 5.

CONTRACTS AWARDED

Mass., Needham—Town Clk., Town Hall, vitr. salt glazed sewer pipe, to C. H. Spring Co., Newton Lower Falls, $15,000. Noted Apr. 2.

R. I., Providence—Bd. Pub. Wks., sewerage works in Smith St., to F. A. Gammino, 331 Bway., $47,724.

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, **(e. e. means engrs. est.)** to Nazzarro & Guerriero, Inc., West 9th St., sewer in Linden Ave. 81.81% e. e. $69,936, East 29th St. 70.61% e. e. $2,406, Ave. L 70% e. e. $2,224; to Tomassetti & Co., Inc., 1133 60th St. Belmont Ave. 72.72% e. e. $40,252; to C. Vacharas, 645 40th St., 6th St. 93.75% e. e. $6,871; to A. W. Matarazo, 71st St. 69.75% e. e. $3,741, 7th Ave. 72.5% e. e. $1,438. Noted Apr. 16.

Md., Baltimore—Bd. Awards constructing Tiffany Run Interceptor Sewer, Sect. 3, and sewers in Dists. H-2, and 33, Contr. 233, to Continental Contg. Co., Knickerbocker Bldg., $37,155. Noted Apr. 2.

N. C., Elizabeth City — Utility Comn., Chamber of Commerce, 3 rein.-con. and brick sewage pumping stations with appurtenances, 88,000 ft. more or less 6- to 24-in. vitr. terra cotta and 10,000 ft. more or less 8- to 16-in. c.i. B & S pipe, 6 vertical, slow-speed sewage pumping units, etc., to A. H. Guion Co., Gastonia, $120,000. Noted Feb. 19.

N. C., Wilson—4,600 ft. 12 and 15 in. shale or fire clay and 350 12 and 15 in. Class "A" c.i. sanitary outfall sewer in Stantonburg St., to Porter Constr. Co., Charlotte, $40,000. Noted Mar. 19.

O., Cincinnati—City, 1,230 ft. 33 in. brick and 960 ft. 12 and 24 in. vitr. clay sewer in Davis Lane, between Robb St. and point 1,230 ft. south, from T. Maloney, 1858 Taft Rd., Cincinnati, $20,063. Engrs. est. $26,900.

O., Cleveland—For 470 ft. 3C brick and 920 ft. vitr. tile sewer in Bader Ave., also 1,950 ft. 12- to 24-in. vitr. tile sewer in West 25th St., to D. M. Zullo, 706 The Arcade, $10,206 and $13,048 respectively; 1,235 ft. 12- to 24-in. vitr. tile sewer in Germaine Ave., and 1,825 ft. 12- to 24-in. vitr. tile sewer in Biddulph Rd., to W. B. Smith, 706 The Arcade, $4,160 and $4,994 respectively; sewer in Shawnee Ave., to Kassouff & Co., 3,182 West 25th St., $19,739.

O., Cleveland — City, to E. Cesa, 2462 Baldwin Rd., 2,600 ft. 24 in. vitr. tile sewer in Hirst Ave., $12,495; to W. Burkhart, 3905 West 20th St., 500 ft. 12- to 24-in. vitr. tile sewer in Schuley Ave. $2,894, 511 ft. 12- to 24-in. vitr. tile sewer in West 55th Pl. $2,227, 285 ft. 12- to 24-in. vitr. tile sewer in West 152nd St. $1,070; to Langahan Constr. Co., Marshall Bldg., 2,810 ft. 24 in. vitr. tile sewer in Stickney Ave., Sect. 2, $20,526; to Shannon & O'Shea, 3380 West 135th St., 2,010 ft. 12 in. vitr. tile sewer in Stickney Ave., Sect. 1, $5,733. Noted Mar. 26.

O., Idlewood (Cleveland Heights P. O.)—Sewer and connections in various streets, to Infornaro & Son, 2218 Murrey Hill Rd., Cleveland, sewer $26,054, connections $61,218. Noted Apr. 9.

Mich., Detroit — To S. Fattori, 2201 St. Joseph Ave., 10,821 ft. 12 in. to 4 ft. cylinder vitr. and brick lateral sewers in Lateral 4268 $55,387, 2,544 ft. 12- to 24-in. in Lateral 4302 $7,700, Lateral 4330 $9,843; to P. Cappello, 2255 St. Joseph Ave. 5,073 ft. 12- to 20-in. Lateral 4298 $8,900, 5,620 ft. 12- to 24-in. Lateral 4310, $14,400, Lateral 4315 $6,485; to Loures & Sommerville, 8014 Grand River Ave., 2,813 ft. 12- to 24-in. Lateral 4299 $5,750, 9,351 ft. Lateral 4306 $23,300, 3,085 ft. 12- to 24-in. Lateral 4307 $6,150; to C. R. Lennane & Co., 2631 Woodward Ave., 1,414 ft. 12- to 18-in. Lateral 4304 $4,897, Lateral 4301 $9,472; to T. D. Nolan, 11,341 Woodward Ave., 6,823 ft. Lateral 4305 $25,373, Lateral 4287 $2,590; to Waterway Constr. Co., 400 Penobscot Bldg., 6,711 ft. 12- to 26-in. Lateral 4314, $20,024; to Western Constr. Co., 1208 Ford Bldg., 1,405 ft. Lateral 4319 $5,095, to R. Rossi, 1337 Brady St., 9,149 ft. Lateral 4319 $5,095; to S. Healy, 6466 Epworth Blvd., 1,610 ft. Lateral 4323 $7,000; to W. Blanck & Co., 40 Seven Mile Rd. Lateral sewer 4254 $15,800; to Central Constr. & Eng. Co., Detroit, Lateral 4317 $10,990; to Detroit Drainage & Constr. Co., 5099 Lemay Ave., Lateral 4327 $2,340. Noted Mar. 26.

Wis., Milwaukee—Dept. Pub. Wks., 4,060 ft. 8- to 21-in. vitr. sewer in American Ave., to F. E. Kaminski, 745 46th Ave., West Allis, $8,665; 825 ft. 12 in. vitr. sewer in 10th Ave., to H. O. Schaefer & Sons, 1149 East Mason St., Green Bay, $11,630; 219 ft 12 in. combined sewer in Cedar St., to J. Brogan & Sons, 700 Dousman St., Green Bay, $1,489; 4,165 ft. 42- to 84-in. monolithic concrete sewer tunnel, in Auer Ave., etc., to F. Douherty, 37th St. and Fond du Lac Ave., $179,174. Noted Apr. 16.

Wis., Prairie du Chien—W. Beuthin, city clk., 14,898 ft. 8, 12 and 15 in. vitr. sewers in various streets, to Gjellefald & Chapman Constr. Co., Forest City, Ia., $22,326. Noted Apr. 2.

Wis., Two Rivers — To Gray-Robinson Constr. Co., Torrison Bldg., Manitowoc, sewers in various streets, 9,000 ft. 8 in. vitr. pipe $2.50 per ft., 6 in. c.i. force pipe at $1.65 per ft., etc.

Calif., Blythe — City Trustees, sewage treatment plant and outfall sewerage system, to Janes Constr. Co., 433 South Hobart Blvd., Los Angeles, approximately $37,215. Noted Mar. 5.

Calif., Los Angeles — Bd. Pub. Wks., sewers in Calsom St. between Whittier Blvd. and Mines Ave., etc. to G. W. Kemper, 44 Hugo St., San Francisco, $65,500.

Waste Disposal

PROPOSED WORK

Ont., Toronto — City does not plan to build incinerator, on Wellington St. This corrects report in Mar. 26 issue.

Bridges

PROPOSED WORK

N. Y., New York—City and New York Central R.R., Grand Central Terminal, 42nd St., plan 1,100 ft. concrete arch bridge, at 238th St. $1,000,000. G. W. Kittredge, ch. engr. New York Central R.R.

Ill., Bloomington—Voted $100,000 bonds for rein.-con. and steel viaduct across 2 railroads.

Wis., Milwaukee—R. E. Stoelting comr. Pub. Wks., made plans approximately 1,000 ft. steel bridge, on Holton St. $900,000. M. C. Cutler, City Hall, engr. Noted June 19.

Tex., Linden—See "Streets and Roads."

Tex., Waxahachie — See "Streets and Roads."

Que., Baie St. Paul—Made plans 80 ft. concrete and steel bridge. $25,000. I. E. Vallee, c/o Dept. Pub. Wks., Quebec, engr.

Que., St. Anne des Plains—Made plans steel bridge on concrete abutments. $25,000. I. E. Vallee, c/o Dept. Pub. Wks., Quebec, engr.

Ont., Toronto—Plans 700 ft. steel arch and trestle bridge, on Glen Rd. $600,000. R. C. Harris, city engr.

Ont., Toronto—York Twp., 40 Jarvis St., made sketches 7 spans, 1,400 ft. concrete bridge over Don Valley. $800,000. F. Barber, twp. engr.

BIDS DESIRED

Pa., Lewiston—May 4, by Boro Council, three 45 ft. span rein.-con. bridge over creek on Route 28. $35,000.

Louisiana—See "Streets & Roads."

O., Canton — Apr. 29, by Comrs. Stark Co., William Kelly Bridge, concrete and steel, over Beach Creek in Lexington Twp. $31,883. A. M. Wise, Court House, engr.

O., Cleveland—Apr. 29, by Comrs., Cuyahoga Co., concrete bridge and culverts on Bean Rd. $27,625. F. Lander, Court House, engr.

O., Dayton—May 8, by G. F. Baker, dir. Pub. Serv., Findlay St. Bridge, two 83 ft. and two 89 ft. open spandrel rein.-con. arches, etc., over Mad River. W. Braun, 1083 South High St., Columbus, consult engr.; adv. E. N.-R. Apr. 23. Noted Mar. 5.

Wisconsin—See "Streets and Roads."

Wis., Stevens Point—May 1, by State Hy. Comn., at City Hall, constructing Clark St. bridge incl. two 66 ft., two 68 ft., two 72 ft. and one 78 ft. concrete arch spans, also 7 concrete girders each having 69 ft. clear opening, 830,180 lbs. reinforcing, 23,070 lbs. structural steel, etc. C. H. Kirch, acting bridge engr.

Arkansas—See "Streets and Roads."

Okla., Cordell—Apr. 27, by O. Brown, city clk., grading and concrete surfacing 30,150 sq.yd. Market, Church, Clay and College Sts. $93,300. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 9.

California—May 4, by State Hy. Comn., Sacramento, one 30 ft. and three 60 ft. span, rein.-con. girder bridge over Ventura River, Ventura Co., 84,000 lb. reinforcing, etc. R. M. Morton, highway engr. Noted Apr. 2.

Ont., Brigden—Apr. 30, by W. J. Brownlee, clk. Moore Twp., 84 ft. steel and concrete bridge. $25,000. G. A. McCubbin, Chatham, engr.

BIDS RECEIVED

Ohio—Dept. Highways and Pub. Wks., Columbus, Apr. 10, bridge on Sect. "Yorkville" Belmont Co., from T. K. Rotherman, Martins Ferry, $17,343, concrete bridge Sect. "H-Bridges" Woodsfield-Sisterville Rd., Monroe Co., from Hardman & Minns, Spencer, West Va., $39,075; temporary bridges on Sect. "Twin Cr. Bridges" National Rd., Preble Co., from L. Pickering, Bellefontaine, $3,551. Noted Apr. 2.

CONTRACTS AWARDED

Mass., Leominster—City, one 65 ft., rein.-con. bridge across Nashua River, at Mechanic St., to J. Lorenzi, 433 Mechanic St., $26,150. Noted Apr. 9.

Pa., Masontown—E. Houston, controller Fayette Co., Court House, Uniontown, and Comrs. Greene Co., Court House, Waynesburg, 400 ft. span bridge on 2 concrete piers across Monongahela River, near here, to Independent Bridge Co., Neville Is., Pittsburgh, $572,000. Noted Mar. 19.

Pa., Pittsburgh—Dept. Pub. Wks., replacing portions of bridge on South Highland Ave., over Pennsylvania R.R. tracks, to A. P. H. Smith, Pittsburgh, $29,309. Engrs. est. $30,000.

Bridges (Continued)

West Virginia and Ohio — Huntington-Ohio Bridge Co., 1026 4th Ave., Huntington, W. Va., steel work for bridge over Ohio River between Huntington, W. Va., and Chesapeake, O., to Mt. Vernon Bridge Co., Mt. Vernon, O., $550,788; piers and abutments, to General Contg. Co., Columbia Bldg., Pittsburgh, Pa., $241,620. Noted Mar. 5.

North Carolina — State Hy. Comn., Raleigh, rein.-con. bridges and culverts on State Project 824, Cleveland Co., to E. A. Wood & Co., Andrews, $69,284; and on 487-A, Wake Co., to Roanoke Bridge & Iron Wks., Roanoke, Va., $78,380. Noted Apr. 2.

Fla., Mulberry — Polk Co. (Bartow) Nicholes Bridge, 450 ft. long, rein.-con., to C. T. Dawkin, Jacksonville, $26,764. Noted Aug. 7 under "Nichols."

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 40 ft. and one 60 ft. span rein.-con. girder bridges, Route 24, Sect. 1-B, Christian Co., to Zimmerly Bridge Co., Paris, $13,862; one 50 ft. rein.-con. girder bridge, Route 14, Sect. 10-B, Hamilton Co., to Hay & Campbell, Bonneville, $8,052; three 40 ft. rein.-con. girder bridges, Route 33, Sect. 7-B, Effingham Co., to Dees Bros., Oblong, $17,446; steel substructure for 100 ft. span bridge Route 8, Sect. 47-B, Knox Co., to A. P. Munsen, Marion, Ia., $8,765, steel superstructure for same to Vincennes Bridge Co., Vincennes, Ind., $5,987; six 10 ft., two 9 ft., nine 12 ft. and one 25 ft. slab bridges, Route 9, Sect. 46-B, Vermilion Co., to Huff & Gaines, Logan, Ia., $18,576; superstructure for two 150 ft. steel spans, Route 9, Sect. 39-C, Fulton Co., to St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo., $20,960. Noted Dec. 11 and Apr. 2.

Ia., Grundy Center — See Streets and Roads.

Kan., Girard—Crawford Co., 6 rein.-con. steel bridges, to Allhands & Davis, Frisco Bldg., Joplin, Mo., $20,374, and 2 rein.-con. and steel bridges, to Independent Constr. Co., Pittsburg, $7,076.

Tex., Karnes City — Karnes Co., bridges and culverts in Road Dist. 3, to L. E. Sanders, San Antonio, $30,904. Noted Mar. 12.

Que., St. Irenee — Town Council, 76 ft. rein.-con. bridge, to Nap & C. Taillon, Chateau Richer. Engrs. est. $30,000.

Ont., Preston — Canadian Pacific Ry., Windsor Sta., Montreal, Que., 8 span 560 ft. steel and concrete bridge over Grand River, 4 concrete piers to Webster & Tory, Galt; steel, to Hamilton Bridge Wks., Waterfront, Hamilton. Engrs. total est. $85,000.

Dams

PROPOSED WORK

Calif., Meadow Valley—See "Buildings—Industrial."

Que., Sherbrooke—Making plans repairing concrete dam on Magog River, Wolfe St. $25,000. A. Tremblay, town engr.

CONTRACTS AWARDED

Calif., Quincy—Great Western Power Co., 530 Bush St., San Francisco, raising Big Meadows Dam, to 115 ft. high and 1,500 ft. long, at Lake Almanor, on north fork Feather River, 1,000,000 cu.yd. hydraulic fill, to Foundation Co., 58 Sutter St., San Francisco, approximately $2,000,000.

Railways

PROPOSED WORK

Florida—S. M. Earling, 130 South Dearborn St., Chicago, Ill., and A. McAnsh, and associates, Sarasota, having surveys made for railroad from Bradentown to Vero by way of Avon Park and Fort Kissimmee.

Ohio—H. Ford, Highland Park (Detroit P. O.), Mich., owner of Detroit, Toledo & Ironton R.R., recently purchased more than 2,000 acres land and plans terminal and transfer yards on 200 acres of above site, in South Charleston, here.

CONTRACTS AWARDED

Illinois — Macomb Sewer Pipe Co., Macomb, will build 5,775 ft. 3 ft. gauge industrial railway, incl. 650 ft. railway on 8% grade requiring electric hoist, in Colchester, by day labor. F. M. Connolly, 432-33 Peoples Trust & Savings Bank, Galesburg, engrs.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Tex., Harlingen — Cameron Co. election soon $800,000 bonds for flood prevention and irrigation work in Cameron and Willacy Counties. Total $3,000,000. Engineer not selected.

BIDS DESIRED

Conn., Hartford—Apr. 28, by E. M. Dahill, secy. Bd. Contr. & Supply, 909 ft. rein.-con. conduit, 8 x 8 ft., to form confined channel for Gully Brook. $47,000. R. N. Clark, city engr. Noted Apr. 16.

N. Y., New York—Apr. 30, by M. Cosgrove, comr. Docks, Pier A, foot Battery Pl., North River, dredging at Piers 53 to 56, North River, Contr. 1860.

Minn., St. James—Apr. 27, by C. Larsen, city clk., improving outlet of St. James Lake through city, 1,642 cu.yd. open ditch excav., 4,300 ft. 12- to 42-in. drain tile, etc. $16,755.

Calif., Long Beach—City Council taking bids dredging harbor entrance channel south of Union Pacific R.R. Co., to depth of 25 ft., 200 ft. wide on bottom, 1,399 ft. long. To exceed $25,000. R. G. McGlone, Long Beach, harbor engr.

BIDS RECEIVED

N. Y., Buffalo — Dept. Pub. Wks., Municipal Bldg., Apr. 6, completing Part 1, Sect. 4 of Buffalo River and Cazenovia Creek Impvt., from J. M. Ludington & Sons, Powers Bldg., Rochester, $0.38 per cu.yd. Noted Mar. 19.

CONTRACTS AWARDED

Md., Baltimore—Mayor and City Council, dredging in harbor for year 1925, to Arundel Corp., Pier 2, Pratt St., $52,971.

Wis., Antigo — Excavation for 3 story and basement, 75 x 100 ft., brick and concrete addition to Butterfield Hotel, plain foundation, to E. A. Feller, Antigo, for S. J. McMahon, 425 East Water St., Milwaukee. Noted Jan. 22 under "Buildings—Commercial."

Streets and Roads

PROPOSED WORK

Massachusetts — Dept. Pub. Wks., State House, Boston, plans widening Quincy Shore Reservation, from Squantum St., to Black's Creek Bridge, in Quincy. $375,000. W. F. Williams, comr.

Mass., Wrentham—Bd. Selectmen, plans relocating and widening South St. $40,000. Engineer not selected.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids Apr. 6, repaving Old South Rd. from Long Island R.R. to Three Mile Mill Rd. Noted Apr. 9.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids repaving Lincoln and Van Wyck Aves. Noted Apr. 16.

N. J., Belvidere — Freeholders Warren Co. plans concrete paving 2 mi. road. H. W. Vetter, Belvidere, engr.

N. J., Highland Park — Plans asphalt paving 4 streets. $85,000. G. F. Leonard, mayor. Engineer not selected.

Va., Danville — See "Buildings — Educational, Religious."

N. C., Brevard—Plans grading, concrete or asphaltic concrete paving various streets. $90,000. T. M. Mitchell, Brevard, mayor.

N. C., Newton—See "Waterworks."

Ga., Albany — Plans paving 40 to 50 blocks various streets.

Miss., Ellisville—Jones Co. voted $200,000 bonds, brick or concrete surfacing from Ellisville to Tallaha Bridge north of Laurel, in Laurel-Ellisville Road Dist. Will endeavor to obtain Federal Aid for same amount. Noted Apr. 2.

Miss., Magnolia—Pike Co. voted $125,000 bonds, improving road from Walkers Bridge to McComb, 4th Road Dist.

Miss., Winona — Plans paving, curbing, guttering, laying lead water pipe, sanitary and storm sewers, etc. in Union, Church, Carroleton, College, Jones, Webster, Ratliff, Front, Summit, College and Magnolia Sts., Railroad, Hampton and Sterling Aves., Vine and City Alleys.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 15 mi. Union City-Kentucky State line Rd., Obion Co. J. G. Creveling, highway comr.

Tenn., Centerville—Hickman Co., making surveys improving 9 mi. Centerville-Perry Co. line Rd. L. N. Totty, Centerville, road supt.

Tenn., Madisonville — Monroe Co. plans improving 25 mi. Madisonville-North Carolina State line Rd. To exceed $25,000.

Tenn., Memphis—Plans improving Riverside Blvd. from Trigg to South Parkway Sts., to Bellevue Blvd. from Lamar to Agnes Sts. and Jackson Ave. from Manassas to Breedlove Sts. $74,335.

Fla., Lake Maitland — Plans improving Packwood and Vanderpool Aves. $26,000, portions of Sybella and George Sts. $26,000, portions of Lake Shore Drive, Lawrence Ave., and Dixie Highway $26,000, also Independence and Horatio Aves. $26,000. J. B. McCrary Eng. Corp., Citizens and South Bank Bldg., Atlanta, Ga., and Lake Maitland.

Fla., Palmetto—Plans grading and paving Lee St. $37,496, Harlee St. $72,157, Oak St. $33,198, and Pine St. $76,028; paving and sidewalks on Lemon Ave. $79,086. P. P. Pilcher, Palmetto, engr.

Fla., Tampa — Plans grading, repaving and widening Platt St., Ordinance 1024A. $29,035. R. D. Martin, City Hall, engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections, and paving 1,959 ft. Mooberry and 6th Sts., 26 ft., brick $27,889, asphalt $19,817; 4,075 ft. Binns Blvd. and Jason Ave., 24 ft., brick $41,958, asphalt $33,925; 811 ft. Cherry St. and alleys west of 6th and Forest Sts., 20 ft., brick $6,701, concrete $5,951; 411 ft. alley north Smith Pl., 21.25 ft., brick $3,567, concrete $3,228. R. H. Simpson, city engr.

O., Lisbon — Columbiana Co. plans improving 1 mi. West 8th St., 20 ft. $38,000. L. C. Kirk, Lisbon, engr.

O., Parma—Plans paving 0.5 mi. Bradley Ave., $25,000. Lander Eng. Co., Engineers Bldg., Cleveland, engrs.

O., Wadsworth—Plans brick or asphalt paving Bergey St., $35,000, and Pardee St. $30,000; improving South Pardee St., $25,000-$35,000.

Indiana — State Hy. Dept., Indianapolis, plans concrete paving 29,124 sq.yd. Federal Aid Rd. 91, in Lake Co. C. Gray, highway engr.

Ind., Plymouth—Marshall Co., plans grading and graveling 3.33 mi. Bowser Rd., 24 ft., 26,174, also 3.4 mi. Hochstetler Rd., 24 ft., $26,694. J. Hildebrand, Plymouth, engr.

Ind., Rensselaer—Jasper Co. plans grading and graveling 3.1 mi. Clark Rd., 24 ft. $26,974. E. D. Nesbit, Rensselaer, engr.

Ind., Valparaiso — Porter Co., plans grading and graveling 2.06 mi. Nicholson Rd., 24 ft., $25,940; 2.84 mi. McCord Rd., 24 ft., $25,915; 2.02 mi. Riggart Rd., 24 ft., $25,350; concrete paving 24,216 sq. yd. Scofield Rd., $68,500. F. R. McNiece, Valparaiso, engr.

Ind., Warsaw—Kosciusko Co. plans concrete paving 16,896 sq.yd. Crystal Lake Rd. $32,509. S. S. Boggs, Warsaw, engr.

Wis., Green Bay—City, W. L. Kerr, city clk., making plans paving 40,300 sq.yd. several streets, various types material considered. A. E. Kringel, City Hall, engr.

Wis., Wausau—Soon takes bids paving approximately 19,000 sq.yd. 6th St. To exceed $25,000. B. C. Gowen, City Hall, engr.

Kan., Abilene—Voted $138,847 bonds, for street improvements.

Kan., Alma — Wabaunsee Co. making preliminary plans grading, etc. 13.295 mi. Southern Trail, 28 ft.

Neb., Crete — Takes bids about May 1, paving, etc. 17 blocks of various streets. H. A. Davis, Crete, engr.

Mo., St. Louis—Soon takes bids concrete paving, etc. alleys in City blocks 2643, 2906, 2925, 2968, 3033, 3390, 3391, 3392, 4020-S, 4099, 4098-S, 4102, 4103-S, 5012-W, 5280, 5242, 5535, 5546, 5661; also Harlem Creek 16 Dist. Sewer, 7,625 ft. 8- to 36-in. vitr. clay, brick or segmental tile pipe. $70,000. W. W. Horner, 300 City Hall, engr.

Mo., Webb City — Voted $40,000 bonds paving various streets. Noted Apr. 2.

Tex., Boerne—Kendall Co. making plans improving 2 mi. highway from Kerr Co. line to Guadalupe River, 18 ft. $25,000. S. K. Mason, Boerne, engr.

Tex., Cameron — Milam Co. takes bids after May 1, graveling 7.6 mi. Ben Milam Highway, State Highway 36, Federal Aid Project 359, 18 ft. $110,500. A. F. Mitchell, Cameron, engr. Noted Jan. 22.

Tex., Cleburne — Johnson Co. making plans and soon takes bids 1 in. inverted

Streets and Roads (Continued)

penetration bituminous surfacing 10.86 mi. State Highway 2-A, Federal Aid Project 330, 18 ft. $57,500. R. E. Keller, Cleburne, engr.

Tex., Dickens—Clerk Dickens Co. takes bids after Apr. 28, gravel surfacing 3.97 mi. Dickens-Motley Co. line Rd., State Highway 38, Federal Aid Project 446 A, 16 ft., and sand clay surfacing 8.47 mi. same road. $92,600. J. W. Alger, Dickens, co. engr. Noted Apr. 9.

Tex., Linden—Cass Co. making plans and soon takes bids grading and bridging 7.44 mi. State Highway 48, Federal Aid Project 457-B, 26 ft. $77,400. F. E. Hess, Linden, engr.

Tex., Orange — Orange Co. takes bids about Apr. 25, grading, bridging and surfacing 4.5 mi. Orange-Port Arthur Rd. $90,000. D. C. Bennett, judge.

Tex., San Angelo—Voted $80,000 bonds, paving various streets. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Temple—Voted $25,000 bonds, paving various streets. H. G. Greaser, city mgr. Noted Mar. 19.

Tex., Vernon—Election Apr. 21, $25,000 bonds paving various streets. H. Mason, mayor. Engineer not announced.

Tex., Waxahachie — Ellis Co. making plans and soon takes bids grading, bridging, etc., 5.89 mi. State Highway 34, Federal Aid Project 385-B. $29,400. Noted Jan. 15.

Okla., Blackwell—Plans grading, curbing and vertical fibre brick surfacing 6,480 sq.yd. Lincoln, A, 6th and Padon Sts. $31,-450. W. Ritzhaupt, Blackwell, engr.

Okla., Clinton — Plans grading, curbing and sheet asphalt surfacing 5,000 sq.yd. 5th St. $28,000. B. M. Hart, City Hall, Oklahoma City, engr.

Okla., Sulphur—Making surveys grading and gravel surfacing 31,000 sq.yd. Platt Natl. Park Rd. $42,000. E. L. Bandy, Sulphur, engr.

Colo., Florence—Making plans asphaltic or concrete paving Dist. 1. $82,184. Weiland Eng. Co., Pueblo, engr.

Calif., Richmond — Made plans concrete curbing with and without steel curb bars, concrete guttering 1.5 in. National on 2.5 in. asphaltic concrete surfacing, 325,000 sq. ft. Ohio and Waller Aves., 41st and 42nd Sts., etc. To exceed $25,000. E. A. Hoffman, engr. Noted Apr. 2.

Calif., San Diego—Common Council plans improving Villa Terrace and Dwight Sts., 130,326 sq.ft. 1.5 in. asphaltic concrete on 2.5 in. bituminous paving, 3,261 sq.ft. cement sidewalks, etc. F. A. Rhodes, City Hall, engr.

Calif., San Rafael — Marin Co. made plans grading and vibrolithic concrete paving, etc. 28,764 sq.ft. Scenic Rd. Dist. (Fairfax Manor); grading, Willite asphaltic concrete paving, etc. 80,992 sq.ft. Pacheco Tract-Fairfax, Domingo Ave., etc. and 40,-583 sq.ft. roads in Fairfax Park Tract. J. C. Oglesby, San Rafael, co. surv.

Ontario — Dept. Provincial Highways, Toronto, plans to expend $163,100 on roads in Welland Co. G. Hogarth, ch. engr.

Ont., Chatham — Kent Co. soon takes bids concrete paving 40,000 sq.yd. road. $120,000. W. G. McGeorge, Chatham, co. engr.

Ont., Hamilton — Barton Twp. plans to expend $35,000 for gravel and macadam road maintenance. Work mostly by day labor. $35,000. A. G. E. Bryant, twp. clk.

Ont., Kincardine — Plans probably concrete paving 24,000 sq.yd. main streets. $75,000. J. H. Scougall, engr.

Ont., Paisley—Plans concrete paving 12,-000 sq.yd. main streets. $38,000. J. C. Gibson, town clk.

Ont., Port Hope—Making plans sheet asphalt paving, etc., 2 to 2½ mi. Walton St. $90,000. M. W. Ferguson, city engr.

Ont., Toronto—East York Twp. plans grading, graveling, etc., 10 mi. various roads. $60,000. G. R. Jack, Municipal Yard, Sammon Ave., engr.

Ont., Toronto—York Twp. plans grading, graveling, crushed stone and macadam paving 10 mi. various roads. $189,150. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto—Plans extending, grading and asphalt and concrete paving 8,000 sq. yd. Oriole Parkway from Chaplin Crescent to Gormley Ave. $45,000. R. C. Harris, city engr.

Ont., Toronto—Plans concrete sidewalks on Hillsdale Ave. $2,926, Meagher Ave. $1,691, Devon Rd. $568, Mt. Pleasant Rd. $1,611, Newmarket Ave. $1,934, Redpath Ave. $839, Eastwood Rd. $759, Blackburn St. $1,274; concrete curbing Ingham Ave. $382, Cavell Ave. $154; asphalt paving Vincent St. $10,867, Ingham Ave. $7,213; concrete paving lane at South King St. $1,926; widening Don Esplanade East $30,-000; grading Abbott Ave. $11,100, lane between Brock and Margueretta Aves. $27,-500, Pearson and Galley Aves. $20,300, lane between Lawton and Uxbridge Aves. $5,950, Walder Ave. $9,300, lane between Armstrong Ave. and Millicent St. $25,000, lane between Munro and Hamilton Sts. $4,900. R. C. Harris, city engr.

Ont., Toronto—East York Twp., making plans concrete sidewalks on 10 mi. various streets. $60,000. G. R. Jack, Municipal Yard, Sammon Ave., engr.

BIDS DESIRED

Massachusetts — Apr. 28, by Pub. Wks. Dept., Boston, waterbound macadam paving 3,686 ft. highway in Rehoboth and Dighton $25,000; bituminous macadam paving 3,600 ft. highway in Seekonk $25,000, and 7,830 ft. highway in Groveland $50,000; bituminous concrete paving 4,600 ft. highway in Mashpee, $40,000, and 2,600 ft. highway in Sandwich, $25,000. W. F. Williams, comr.

Mass., Adams—May 4, by Bd. Selectmen, Town Hall, rein.-con. paving, curbing, laying sidewalks, etc., on various streets. H. C. Neff, Adams, engr.; adv. E. N.-R. Apr. 23.

Conn., Hartford—Apr. 28, by City, sheet asphalt on concrete paving Westbourne Parkway, Asylum, Laurel, and Ridgefield Sts., Maple, Bluehills, Capitol and New Britain Aves. $301,335. R. N. Clark, city engr.

New York—May 4, by Bd. Supervs. Westchester Co., Court House, White Plains, rein.-con. paving Palmer Ave. Co. Rd. 33 from Fortfield Ave. to village of Bronxville, 1.08 mi. in Yonkers. F. L. Merritt, clk.; adv. E. N.-R. Apr. 23.

N. Y., Brooklyn—Apr. 30, by Park Bd. at office Dept. Parks, 5th Ave. and 64th St., New York City, grading and surfacing Willamsburg playground at Johnson Ave., Leonard, Lorimer and Boerum Sts., here. F. D. Gallatin, pres.

N. Y., Buffalo — Apr. 27, by Dept. Pub. Wks., Municipal Bldg., repaving Washington St., paving Cecil, Roslyn, Newburgh, Pearl and Stevenson Sts., Camden, Weber, West Winspear, Phyllis, Starin and LaSalle Aves. W. F. Schwartz, comr.

N. Y., Ithaca—May 13, by Bd. Pub. Wks., paving 7 streets, rein.-con., Hillside brick, asphaltic concrete and stone block. W. O. Kerr, city clk.; adv. E. N.-R. Apr. 23.

N. Y., Lake Placid—May 4, by Village Bd. Trustees, Town Hall, grading and paving North Main St. and Shore Dr. E. C. Herb, clk.; adv. E. N.-R. Apr. 23.

N. Y., Long Island City — Apr. 27, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sheet asphalt repaving 92nd St., and in 1st and 2nd Wards; grading, curbing, etc. Ely, Roosevelt and 95th Aves., 99th, 102nd, 109th and 112th Sts.

N. Y., New York—Apr. 27, by J. Miller, pres. Manhattan Boro, Municipal Bldg., repaving 37th and West 170th Sts.; widening and repaving 47th and 55th Sts.

N. Y., New York — Apr. 28, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., grading, curbing, etc. Sedgwick and Holland Aves.; paving Macombs Rd., East 214th and 149th Sts., Morris and Allerton Aves.

N. Y., New York—Apr. 29, by J. Miller, pres. Manhattan Boro, Municipal Bldg., sheet asphalt paving 67th St.; sheet asphalt repaving 119th St. and 2nd Ave., widening and sheet asphalt repaving Lexington and West End Aves.; granite block repaving 128th St.

N. Y., New York—Apr. 30, by Park Bd., at office Dept. Parks, 5th Ave. and 64th St., asphalt mastic repaving, walks of Seward Park; asphaltic concrete paving entrance to Central Park from West 106th St. to West Dr. F. D. Gallatin, pres.

N. Y., Scarsdale—May 4, by Bronx Parkway Comn., 72 West Pondfield Rd., Bronxville, 9,600 sq.yd. asphalt block paving, here. J. Downey, engr. and secy.; adv. E. N.-R. Apr. 23.

N. Y., Scotia — Apr. 27, by Bd. Village Trustees, paving, etc. Bruce and Center Sts. H. B. Toll, village clk.; adv. E. N.-R. Apr. 23.

N. Y., Westfield—May 4, by Bd. Village Trustees, grading and paving pearl, East Pearl, portions of Union and Elm Sts. Hill & Hill, Westfield, engrs.; adv. E. N.-R. Apr. 23.

New Jersey—May 11, by State Hy. Dept., Trenton, graveling and rein.-con. paving Route 4, Sect. 30, Ocean Co. A. L. Grover, secy.; adv. E. N.-R. Apr. 23.

New Jersey—May 4, by State Hy. Dept., Trenton, concrete and sheet asphalt paving, etc., Route 6, Sect. 16, Broad St., Gloucester Co.; and rein.-con. paving Route 18, (North) Sect. 1, Bergen Co. A. L. Grover, secy.; adv. E. N.-R. Apr. 23.

N. J., Cape May—May 20, by Bd. Chosen Freeholders, Cape May Co., rein.-con. paving Cape May Point Blvd. G. F. Smith, Marmora, co. engr.; adv. E. N.-R. Apr. 23.

N. J., Lambertville — Apr. 27, by City Comn., improving various streets, 14,472 sq. yd. bituminous surface dressing, 13,230 sq. yd. scarifying and resurfacing, 4,057 sq.yd. waterbound macadam, 6,800 sq.yd. penetration macadam. G. Davis, Whitehouse Sta., engr.

Maryland — Apr. 28, by State Roads Comn., Baltimore, 9 sections of highways in Baltimore City, Garrett, St. Marys, Cecil, Talbot, Washington, Allegany, Montgomery and Harford Counties. J. N. Mackall, chn.; adv. E. N.-R. Apr. 23.

Maryland—May 5, by State Roads Comn., Baltimore, paving 9 sections in Howard, Baltimore, St. Marys, Wicomico, Carroll, Prince George, Anne Arundel, Dorchester and Worcester Counties; adv. E. N.-R. Apr. 23.

Md., Baltimore—Apr. 29, by Bd. Awards, grading, curbing and asphalt paving 13,550 sq.yd. Contr. 278-OC, and grading, curbing and concrete paving 8,480 sq.yd. Contr. 279-OANA. S. C. Rowland, 214 East Lexington St., acting chn. paving comn.

W. Va., Fayetteville—May 15, by Fayette Co., T. Boone, clk., Court House, bituminous macadam surfacing 8 mi. Kincaid-Kingston Rd., Kanawha Dist., Project K-50; adv. E. N.-R. Apr. 23.

North Carolina — May 5, by State Hy. Comn., Raleigh, hard surfacing 14 projects in Beaufort, Bertie, Brunswick, Forsyth, Guilford, Jackson, Lee, Macon, Mecklenburg, Perquimans, Moore, Wake and Wayne Counties; grading sand, clay, top soil, or gravel surfacing 6 projects in Anson, Beaufort, Edgecombe, Johnston, Randolph and Robeson Counties; adv. E. N.-R. Apr. 23.

Louisiana — Apr. 28 (extended date), by State Hy. Dept., Reymond Bldg., Baton Rouge, furnishing gravel and surfacing 7.515 mi. State Project 42, A and B, New Orleans-Baton Rouge Highway, from Kenner to Shrewsbury, Jefferson Parish. W. B. Robert, ch. engr. Noted Mar. 26.

Louisiana—May 7, by State Hy. Comn., Reymond Bldg., Baton Rouge, graveling 10.7 mi. State Project 438 A, Clinton-Greensburg Highway, East Feliciana Parish, also 400 ft. creosoted pile trestle bridge on State Project 438 B. W. B. Robert, highway engr.

La., Homer—May 13, by E. H. Fortson, pres. Claiborne Parish Police Jury, constructing 6.5 mi. Parish Project 1 D, Junction City-Homer Highway. J. A. Loup, parish engr.

Tenn., Paris—Apr. 28, by J. W. Holman, engr., Paris, oil surfacing 150,000 sq.yd. various streets, for City.

O., Brooklyn Heights (mail Independence) —May 4, by Village, sheet asphalt or vitr. brick paving, etc., 3,000 sq.yd. Oxford Rd., also laying 6,600 lin.ft. stone sidewalks on Tampa Ave. To exceed $25,000. W. H. Evers Eng. Co., Engineers Bldg., Cleveland, engrs.

Ind., Columbia City — May 5, by E. D. Scott, engr., Columbia City, grading and graveling 3.5 mi. Monohan Rd., 24 ft., $25,-417; and 15,525 ft. Knisely Rd., 30 ft., $27,590.

Ind., Ft. Wayne — May 5, by O. M. Darling, engr., Ft. Wayne, grading and graveling 15.84 mi. Hamilton Rd., 24 ft., for Allen Co.

Ind., Portland—Apr. 30, by H. Teeters, Portland, engr., grading and paving 2.9 mi. Burtner Rd., $26,875; grading and graveling 3.5 mi. Hahn Rd., $27,697, both 24 ft., for Jay Co.

Ind., Plymouth — May 5, by J. Hildebrand, engr., Plymouth, grading and graveling 3.4 mi. Hochstetler Rd., $26,694; 13.33 mi. Bowser Rd., $26,174, both 24 ft., for Marshall Co.

Ind., Rensselaer—May 4, by E. D. Nesbit, engr., Rensselaer, grading and stone or gravel paving 3.1 mi. Clark Rd., 24 ft., for Jasper Co. $26,974.

Ind., South Bend — Apr. 28, by F. G. Anderson, city engr., South Bend, sheet asphalt paving 19,360 sq.yd. 34th St. $30,103.

Ind., Warsaw—May 5, by S. S. Boggs, engr., Warsaw, cnocrete paving 16,896 sq. yd. Crystal Lake Rd., for Kosciusko Co. $32,509.

Michigan—Apr. 30, by State Hy. Dept. at office Comrs. Saginaw Co., Saginaw West Side, grading 5.802 mi. Federal Aid Project 92, Sect. A-2, 48,755 cu.yd. cut and 356,241 cu.yd. hydraulic excav.

Streets and Roads (Continued)

Ill., Forest Park—May 1, by Bd. Local Impvts., concrete surfacing 33,000 sq.yd. alleys. Suhr & Berryman, 105 North Clark St., Chicago, engrs.; adv. E. N.-R. Apr. 23.

Ill., Lake Forest—May 15, by City Clerk, grading, concrete curbing and surfacing 24,900 sq.yd. Northmore Terrace. $145,000. N. N. Campbell, city engr.

Wisconsin—Apr. 28, by State Hy. Comn., at Div. Office 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, grading, bridging and surfacing 10.44 mi. Marshfield-Ashland Rd., Federal Aid Project 224-S, Marathon Co., Sect. A, 10,262 cu.yd. borrow, 63,467 sq.yd. concrete surfacing, 15,777 lbs. reinforcing, etc., Sect. B, 17,832 cu.yd. earth excav., 110,584 sq.yd. concrete surfacing, 56,310 lin. ft. parting strip, 24,439 lbs. reinforcing, etc. J. T. Donohue, Madison, highway engr.

Wis., Green Bay — Apr. 27, by W. L. Kerr, city clk., improving various streets, 25,500 lin.ft. combination concrete curb and gutter, 14,600 cu.yd. grading, 40,300 sq.yd. rein.-con., vibrolithic concrete, sheet asphalt, asphaltic concrete, Warrenite bitulithic, brick, sandstone or creosoted block paving, etc. A. E. Kringel, City Hall, engr. Noted Feb. 26.

Wis., Hartford—May 5, by W. Radtke, city clk., curbing, guttering, one and two course rein.-con. or vibrolithic concrete paving, etc. 7,000 sq.yd. Johnson and Wisconsin Sts. J. Donohue Eng. Co., North 8th St., Sheboygan, engrs. Noted Apr. 2.

Wis., Merrill—Apr. 28, by H. R. Allen, city clk., grading, concrete, rein.-con., vibrolithic concrete or brick paving 20,000 sq.yd. various streets.

Wis., Milwaukee—Apr. 27, by R. Stoelting, comr. Dept. Pub. Wks., grading, curbing, sidewalks and vibrolithic, one course or asphaltic concrete paving 33,723 sq.yd. Holt, New York, Illinois, Indiana, Delaware and Pennsylvania Aves.; grading, curbing, sidewalks and vibrolithic concrete paving 8,729 sq.yd. Burleigh St., 5,535 sq.yd. 57th St., 12,521 sq.yd. Lake St., 2,033 sq.yd. eastern half of 60th St., 1,680 sq.yd. Edgewater Ave., and 8,661 sq.yd. Lincoln Ave. J. Schwada, City Hall, engr.

Ia., Primghar — May 5, by Auditor O'Brien Co., grading and gravel surfacing 14.1437 mi. North and South Primary Rd., 18 ft. W. L. Anderson, Court House, engr.

Minn., St. Paul—Apr. 28, by H. W. Austin, city purch. agt., approximately asphaltic concrete paving 11,022 sq.yd. Wheelock Parkway between Payne Ave. and Arcade St. $30,000. G. M. Shephard, city engr.

Neb., Broken Bow — May 7, by H. R. Knapp, clk. Custer Co, improving 5.4 mi. Arnold-Merna Rd., Federal Aid Project 188-B, 36,400 cu.yd. earth, 6,800 cu.yd. clay excav. for surfacing, 19,550 sta.yd. overhaul, 600 cu.yd. mile haul clay, 32,122 cu.yd. concrete for headwalls, etc. R. L. Cochran, Lincoln, highway engr.

Neb., Hebron—May 8, by B. A. Young, clk. Thayer Co., improving 3.2 mi. Hebron-Nelson Rd., Federal Aid Project 164-E, Hebron Co., 28,000 cu.yd. earth, 350 cu.yd. special and 400 cu.yd. channel excav., 20,000 sta.yd. overhaul, etc. R. L. Cochran, Lincoln, highway engr.

Neb., Omaha — Apr. 30, by F. Dewey, clk. Douglas Co., improving 12.71 mi. Center St., Federal Aid Project 78, Douglas Co., Sect. 1, 63,255 sq.yd. brick, bituminous concrete, sheet asphalt or concrete paving, 71.52 cu.yd. extra concrete, 6,288 lbs. reinforcing, etc., Sect. 270,009 sq.yd. brick, bituminous concrete, sheet asphalt or concrete paving, 53.64 cu.yd. extra concrete, 1,600 cu.yd. clay for shoulders, 1,900 cu.yd. haul clay, 4,716 lbs. reinforcing, etc. R. L. Cochran, Lincoln, highway engr.

Neb., Tecumseh—May 5, by W. J. Devenney, City Hall, city clk., grading, curbing, guttering and brick, vibrolithic or rein.-con. paving 10,212 sq.yd. streets in Paving Dist. 2. R. C. Gore, City Hall, engr.

Kan., Kingman—Apr. 28, by City Clerk, curbing, brick, asphalt, concrete or bitulithic surfacing, etc., 14,096 sq.yd. Main St. C. A. Haskins, Finance Bldg., Kansas City, Mo., engr. Noted Mar. 19.

North Dakota — May 4, by State Hy. Comn., and Bd. Comrs. Cass Co., at Court House, Fargo, graveling, clearing and grubbing, etc., 12.33 mi. Federal Aid Project 253, from Mapleton east to Fargo, and 19.158 mi. Federal Aid Project 268 A, north and west of Fargo.

North Dakota — May 5, by State Hy. Dept., and Comrs., Pierce Co., Court House, Rugby, grading, clearing and grubbing, etc. 6.725 mi. Federal Aid Project 204-A, about 6.5 mi. south of Rugby.

North Dakota — May 6, by State Hy. Comn. and Bd. Comrs. Dunn Co., at Court House, Manning, clearing, grubbing and grading, etc., 4.294 mi. Federal Aid Project 266 A, 4.2 mi. north of Manning.

North Dakota — May 7, by State Hy. Comn., and Bd. Comrs. Logan and McIntosh Counties, at Court House, Ashley, clearing, grubbing, grading, etc., 27.446 mi. Federal Aid Project 254 between Wishek and Fredonia.

North Dakota — May 13, by State Hy. Comn. and Bd. Comrs. Wells Co., at Court House, Fessenden, clearing, grubbing and grading 14.5 mi. Federal Aid Projecta 264, east and west through Fessenden.

Mo., Maryville—Apr. 27, by City Clerk, grading, curbing and 7 in rein.-con. paving 8,135 sq.yds., Market, Dunn and South Main Sts. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engr. Noted Apr. 2.

Arkansas—Apr. 29, by State Hy. Dept., Little Rock, grading, bridging, etc., 11.9 mi. Federal Aid Project 187-A, Sebastian Co., and 7.2 mi. Federal Aid Project 191-B, Lee Co. R. C. Limerick, highway engr.

Oklahoma—Apr. 28, by State Hy. Dept., Oklahoma City, amesite surfacing 5 mi. Federal Aid Project 42-B, 5,280 tons amesite furnished by state. J. M. Page, highway engr.

Okla., Dewar — Apr. 30, by D. V. Armstrong, clk. Okmulgee Co., 3 span 240 ft. steel truss bridge on concrete piers, 260 tons steel, etc. $30,000. H. C. King, Okmulgee, engr.

Okla., Sulphur—Apr. 29, by E. L. Baudy, engr., Sulphur, grading and graveling 46,925 sq.yd. Platt National Park Roads, for City. $42,000.

Okla., Weleetka—Apr. 27, by W. W. Griffin, city clk., grading, curbing and Troy granite gravel surfacing 7,100 sq.yd. Creek, 7th, 8th and 10th Sts., etc. $28,338. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 19.

Colo., Denver—Apr. 30, by Dept. Impvts. & Parks, asphaltic concrete paving 12 blocks each Capitol Hill Paving Dists. 17, 18, 19 and 20. Former bids rejected. Noted Apr. 9.

N. M., Tucumcari — May 2, by L. Piaz, city clk., City Hall, brick, concrete, vibrolithic, asphaltic or Warrenite concrete paving 19,692 sq.yd. streets in Paving Dist. 1. Devlin Eng. Co., 318 Sedgwick Bldg., Wichita, Kan., and Amarillo, Tex., engrs. Noted Mar. 12.

Arizona—May 4, by W. C. Lefebvre, state highway engr., Phoenix, improving Tucson-Nogales Highway, Federal Aid Project 86-A, approximately 8,000 cu.yd. roadway and 3,000 cu.yd. structural excav., 66,000 cu.yd. roadway borrow, 28,000 cu.yd. roadway surfacing, 105,000 lb. reinforcing, 70,000 sta.yd. mi. overhaul, etc., for State Hy. Dept.

California—May 4, by State Hy. Comn., Sacramento, improving 3.6 mi. highway between point 2 mi. south of San Onofre and Northerly Boundary, (VII-S. D.-2-D), San Diego Co., $51,000 cu.yd. roadway and 190 cu.yd. structural excav., 460,000 sta.yd. overhaul, 174,080 sq.ft. subgrading, 1,775 tons rock in shoulders, etc. R. H. Morton, highway engr.

Calif., Ceres—City Trustees taking bids improving portions of 4th and 5th Sts., 88,368 sq.ft. grading, 133,213 sq.ft. 5 in. concrete paving, etc. D. P. Boothe, city engr. Noted Apr. 2.

Calif., Los Angeles—May 4, by Supervs. Los Angeles Co., improving Wilshire Blvd., etc. (Hancock Park Dist.), 12,224 cu.yd. grading, 17,996 sq.yd. shape roadway, 4,895 sq.yd. 6 and 8 in. cement and 11,980 sq.yd. 5 in. macadam paving, etc.; also Main St. in Watts City, 1,285 cu.yd. excav., 3,511 sq.yd. shape roadway, 3,683 sq.yd. disintegrated granite sub-base, 3,511 sq.yd. cement paving, etc. G. Jones, Hall of Records Bldg., engr.

Calif., Martinez — May 4, by Supervs. Contra Costa Co., oil macadam paving 1 mi. Marsh Creek Rd., 16 ft., and concrete paving 5,503 lin.ft. road 1 mi. south of Pittsburg, 18 ft. R. R. Arnold, Martinez, co. surv.

Calif., Santa Rosa — Supervs. Sonoma Co., taking bids paving 5 mi. Santa Rosa-

WATER SUPPLY—KANSAS CITY, MO.

Following are lowest three bids opened by A. J. Stewart, Purch. Agt., March 19, for Contr. No. 1, Missouri Valley Tunnel, (A) Smith Bros., Inc., 2701 Coombs St., Dallas, Tex., (awarded contract); (B) Tibbets & Pleasant, Tulsa, Okla.; (C) The Ryan Co., Chicago, Ill.; Contr. No. 2, Turkey Creek Tunnel, (A) Smith Bros., Inc., (awarded contract); (B) A. L. Patterson & Co., Macon, Ga.; (C) J. J. Dunnegan Constr. Co., Shenandoah, Ia. The unit bids are as follows:

Contract No. 1

	A	B	C
4,000 cu.yd. earth excavation in open cut	$2.25	$2.00	$3.00
100 cu.yd. rock excavation in open cut	10.00	2.00	6.00
100 lin.ft. sinking waterway shafts in earth	200.00	300.00	300.00
465 lin.ft. sinking waterway shafts in rock	150.00	300.00	200.00
46,000 cu.yd. excavation in tunnel	15.50	15.50	18.50
100 cu.yd. enlargement of shaft and tunnel in rock	20.00	30.00	22.00
100 M. ft. B. M. permanent timbering in tunnel	90.00	125.00	100.00
Handling water in shafts and tunnel during construction (lump sum)	1,000.00	25,000.00	14,000.00
1,500 cu.yd. concrete masonry in shafts	20.00	30.00	30.00
19,000 cu.yd. concrete masonry in tunnels	17.30	13.00	16.50
300 cu.yd. concrete masonry in open cut	20.00	15.00	20.00
100 cu.yd. excess concrete masonry in shafts and tunnel	5.00	5.00	5.00
100 cu.yd. dry packing in tunnel	6.80	7.00	8.00
400 lin.ft. drilling holes in rock and masonry	1.00	1.00	3.00
5,000 lin.ft. steel pipe for grouting	.40	1.00	1.00
1,000 making connections for grouting	1.50	4.00	2.50
800 ton sand for grout	3.50	4.00	4.00
2,000 cu.yd. mixing and placing grout	3.50	15.00	15.00
40,000 bbl. portland cement	2.40	3.00	2.50
60,000 lb. steel for reinforcing concrete	.06	.06	.08
200 lin.ft. 12-in. vitrified pipe	2.00	7.00	5.00
150,000 lb. caring for and setting metal work furnished by city	.03	.02	.07
Locker houses (lump sum)	10,000.00	2,800.00	1,500.00
Hydrostatic test (lump sum)	1,000.00	4,400.00	2,500.00
Extended totals	$1,319,750	$1,406,700	$1,540,800

Contract No. 2

	A	B	C
200 cu.yd. earth excavation in open cut	$2.25	$1.50	$1.50
10 cu.yd. rock excavation in open cut	10.00	4.25	5.00
40 lin.ft. sinking waterway shafts in earth	275.00	465.15	400.00
275 lin.ft. sinking waterway shafts in rock	275.00	407.85	400.00
70 lin.ft. sinking construction shafts in earth	275.00	215.50	400.00
70 lin.ft. sinking construction shafts in rock	275.00	257.85	400.00
23,000 cu.yd. excavation in tunnel	18.50	16.00	17.00
100 cu.yd. enlargement of shaft and tunnel in rock	20.00	19.00	25.00
100 M. ft. B. M. permanent timbering in tunnel	90.00	40.00	100.00
Handling water in shafts and tunnel during construction (lump sum)	1,000.00	100.00	100.00
500 cu.yd. concrete masonry in shafts	20.00	41.00	35.00
10,000 cu.yd. concrete masonry in tunnels	16.75	13.50	20.00
150 cu.yd. concrete masonry in open cut	20.00	16.00	20.00
100 cu.yd. excess concrete masonry in shafts and tunnels	5.00	5.00	5.00
100 cu.yd. dry packing in tunnel	6.00	5.00	10.00
200 lin.ft. drilling holes in rock and masonry	1.00	1.50	1.00
3,000 lin.ft. steel pipe for grouting	.40	.75	.50
800 making connections for grouting	1.50	1.50	3.00
400 tons sand for grout	3.50	2.50	7.00
1,000 cu.yd. mixing and placing grout	3.50	9.00	12.00
23,000 bbl. portland cement	2.40	2.50	2.30
45,000 lb. steel for reinforcing concrete	.06	.07	.07
200 lin.ft. 12-in. vitrified pipe	2.00	1.00	3.00
50,000 lb. caring for and setting metal work furnished by the city	.03	.05	.02
Locker houses (lump sum)	12,500.00	2,332.00	6,000.00
Hydrostatic test (lump sum)	1,000.00	2,221.00	2,500.00
Extended totals	$825,575	$778,795	$893,000

Streets and Roads (Continued)

Guerneville Highway to connect Santa Rosa with Sebastopol-Guerneville Highway, 470,000 sq.ft. 2 in. Willite on 3 in. asphaltic concrete, etc. To exceed $75,000. R. P. Smith, Santa Rosa, engr. Noted Mar. 12.

B. C., Golden—Apr. 27, by Minister Pub. Wks., Victoria, grading, etc., 3.17 mi. Golden Yoho-Park Rd., here. $150,000. P. Philip, c/o Dept. Pub. Wks., Victoria, engr.

Ont., Stratford—Apr. 28, by A. B. Manson, city engr., curbing, guttering, asphalt and concrete paving 23,000 sq.yd. various streets. $100,000.

Ont., Williamstown — May 6, by W. T. Bailey, clk. Charlottenburg Twp., waterbound macadamizing 13,000 sq.yd. Glen Donald and Apple Hill Rds. $25,000.

BIDS RECEIVED

Connecticut — J. A. MacDonald, comr. State Hy. Dept., Hartford, rein.-con. paving 6,960 ft. Shore Rd., and concrete paving 3,550 ft. West Sect. Boston Post Rd., both in Westport, from Waterbury Concrete Constr. Co., 110 Grand St., Waterbury, $47,997 and $73,967 respectively; waterbound macadam paving 6,000 ft. Georgetown Rd., in Redding, from Osborn-Barnes Co., Odd Fellows Bldg., Danbury, $47,354, 6,000 ft. Macedonia Rd., in Kent, from W. J. Montgomery Co., 72 Conner St., New Haven, $58,368, 12,996 ft. Dodington Rd., in Newton, from J. DeMichiel, 58 High St., Torrington, $66,564, 19,985 ft. Amston Rd., in Colchester and Hebron, from L. Suzio Constr. Co., State and Brooks Sts., Meriden, $83,234, 20,785 ft. Raymond Hill Rd., in Montville, from D. Arrigonni, Middletown, $102,933, 12,900 ft. Branford-North Branford Rd., in Branford and North Branford, from Helleher Bros., Montague City, Mass., $62,956; rein.-con. paving 6,960 ft. Boston Post Rd. East Side, in Westport, from Silliman & Godfrey, 133 Admiral St., Bridgeport, $66,753; 3 in. bituminous on 5 in. crushed stone paving 45,394 ft. Northampton Turnpike, in Windsor, Windsor Locks and East Granby; from Lane Constr. Co., 37 Colony St., Meriden, $168,134; 8 in. native stone macadam paving 10,071 ft. Indian Wood Rd., in East Lyme, from N. Benvenuti & Son, 74 Goshen St., New London, $50,862. Noted Apr. 2.

New York—A. W. Brandt, comr. highways, Albany, (**e. e. means engineers estimate**), from F. Lux, Johnstown, constructing and reconstructing 5.93 mi. Highway 937, Copenhagen, Lewis Co., and Highway 1129, Lewis Co. line, South Champion, Jefferson Co., $233,078 e. e. $260,816; from New York Willite Paving Corp., Rochester, 5.27 mi. Highway 5634, Evans Center-Farnham, Erie Co., $180,771 e. e. $210,601; from Dale Eng. Co., Mann Bldg., Utica, 8.545 mi. Highways 6, 165 and 256, Ridge, Parts 1, 2 and 3, Monroe Co., $270,559 e. e. $339,934, 4 mi. Highway 616, Trumansburg-Ithaca, Tompkins Co., $153,306 e. e. $184,273; from H. W. Patterson, Hornell, 2.69 mi. Highway 1260, Belvidere-Transit Bridge-Angelicia, Alleghany Co., $115,273 e. e. $138,352, 4.78 mi. Highways 5538 and 5582, LeRoy Pavilion, Parts 1 and 2, Genesee Co., $164,377 e. e. $208,469, 3.53 mi. Highway 683, Dryden-Cortland, Part 1, Tompkins Co., $135,954 e. e. $160,900; from W. Curtis & Co., Geneva, 1.07 mi. Highway 638 Geneva, and 635 Geneva-Halls Corners, Ontario Co., $46,476 e. e. $51,940, from F. W. Knickenberg, 702 Michigan Ave., Buffalo, 1.18 mi. Highway 5259, Salamanca-Little Valley, Part 2, Cattaraugus Co., $57,950 e. e. $69,093; from J. M. Murray, LeRoy, 8.87 mi. Highways 5271 and 5270, Portage-Mt. Morris, Parts 2 and 3, Livingston Co., $191,658 e. e. $258,189; from H. W. Batchelder, Herkimer, 1.59 mi. Highway 686, Weedsport-Cato, Cayuga Co., $55,916 e. e. $63,871; from H. E. Bunce, Olean, 1.16 mi. Allegany-Vandalia, Cattaraugus Co., $55,072 e. e. $66,471; from C. D. Murray, Syracuse, 4.23 mi. Highway 5329, Cazenovia, Morrisville, Madison Co., $190,940 e. e. $215,184; from E. J. Bailey, Brocton, 3.86 mi. Highway 938, Cassadaga-Fredonia, Chautauqua Co., $203,366 e. e. $241,092; from Wood & Wolcott, Inc., Buffalo, 4.25 mi. Highways 5029 and 5084, Schodack Center-Valatie, Parts 1 and 2, Rensselaer Co., $227,684 e. e. $270,130; from Peoples Paving Co., Inc., 85 Roma Ave., Buffalo, 5.2 mi. Highway 617, Lewiston-Dickersonville, and Highway 9109, Tuscadora-Indian Reservation, Niagara Co., $191,960 e. e. $239,976; from J. Thompson, Carthage, 6.58 mi. Highway 5199, Chazy-Rouses Point, Highway 5228, Rouses Point Village, and Highway 5337, Rouses Point-Canadian line, Clinton Co., $227,886 e. e. $256,176; from A. A. Howard, Fairport, 4.01 mi. Highway 169, Dugway, Part 2, Monroe Co., $98,619 e. e. $118,569.

N. Y., Albany — Paving, etc. Quail St., from H. Dumary, 119 State St., $184,925, engrs. est. $190,000; Jay St., from F. Sheehan, Albany, $108,816, engrs. est. $150,000; Morton Ave., from M. F. Dollard, 36 State St., $165,224, engrs. est. $180,000; South Ferry St., from P. W. Mulderry, Albany, $36,672, engrs. est. $40,000.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 14, from Sicilian Asphalt Paving Co., 41 Parw Row, New York City, sheet asphalt paving Charlotte Pl. $10,490, Troutman St. $24,160, 101st St. $10,015, curbing, etc. 78th St. $39,668; from Cleveland Trinidad Paving Co., Flushing, sheet asphalt repaving Flushing and Jamaica Sts., $79,465; from Highway Impvt. & Repair Co., 50 Church St., New York City, sheet asphalt paving 91st St. $65,020, Woodhaven Ave. $12,700; from C. Kurth, 9519 126th St., Richmond Hill, grading, curbing, sidewalks, etc. on Nurge St. $3,270. Noted Apr. 9.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Apr. 16, granite block repaving Park (4th) Ave., from P. Cramer, 154 East 150th St., $5,980; 11th Ave., from W. J. Fitzgerald, 547 East 45th St., $479,760. Noted Apr. 9.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Apr. 14, grading and concrete paving Hylan Blvd. from Brighton Ave. to highwater mark Arthur Kill, Contr. 5, from Fords Constr. Co. Inc., Fords, N. J., $89,905. Noted Apr. 9.

New Jersey—State Hy. Dept., Trenton, concrete paving 33,177 sq.yd. Route 4, Sect. 28A, Waretown-Forked River cutoff, from M. Staub, Pitman, $154,002. Noted Apr. 2.

Pa., Phila.—Delaware River Bridge Joint Comn., 806 Widener Bldg., Apr. 15, 720,000 lin.ft. steel reinforcing trusses, Constr. 21 A, from Rivet Grip Steel Co., Cleveland, O., $144,000. Noted Mar. 26.

Md., Baltimore — Bd. Awards, Apr. 15, sheet asphalt paving Calvert, Hanover and Charles Sts., Linwood and Fairmount Aves., from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $75,637; also 15,150 sq.yd. Contr. 276 OC, from P. Flanigan & Sons, Harford Rd. and Baltimore and Ohio R.R., $50,058. Noted Apr. 9.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, constructing Pearl River Bridge, on New Orleans-Mississippi Highway, Federal Aid Project 126, Sect. D, Tammany Parish, also bridge across Darbonne Bayou, on Farmersville-Ruston Highway, Union Parish, from Vincennes Bridge Co., Vincennes, Ind., $119,009 and $18,969 respectively; repairs to Alexandria traffic bridge, from C. W. Nott, Jennings, $24,926. Noted Feb. 26.

Ohio — Dept. Highways and Pub. Wks., Columbus, Apr. 10, grading and paving with (**a**) brick incl. brick (**b**) state to furnish brick (**c**) Kentucky rock asphalt (**d**) concrete (**e**) bituminous macadam asphalt (**f**) tar macadam (**g**) rein.-con. (**h**) asphaltic macadam, state to furnish stone (**i**) tar macadam state to furnish stone (**j**) Kentucky rock asphalt, state to furnish stone (**k**) asphaltic macadam (**l**) bituminous macadam, asphalt incl. stone (**1**) 0.234 mi. Sect. "Bluffton" Lima-Sandusky Rd., Allen Co. (**2**) 0.234 mi. Sect. "Bluffton" Lima-Sandusky Rd., Allen Co. (**3**) 0.534 mi. Sect. "Yorkville" Ohio River Rd., Belmont Co. (**4**) 1.494 mi. Sect. "A-1" Ohio River Rd., Belmont Co. (**5**) 0.581 mi. Sect. "Russellville" Cincinnati-West Union Rd., Brown Co. (**6**) 1.405 mi. Sect. "F" Cleveland-Sandusky Rd., Erie Co. (**7**) 0.301 mi. Sect. "Dublin" Columbus-Marysville Rd., Franklin Co. (**8**) 1.478 mi. Sect. "B" Roundhead-Ada Rd., Hardin Co. (**9**) 2.21 mi. Sects. "G" and "McGuffy" Roundhead-McGuffy Rd., Hardin Co. (**10**) 1.637 mi. Sect. "0-2" National Rd., Miami Co. (**11**) 3.593 mi. Sect. "J" Cambridge-Newcomerstown Rd., Tuscarawas Co. (**12**) 0.979 mi. Sect. "Newcomerstown" Urichsville-Newcomerstown Rd., Tuscarawas Co. (**13**) 0.637 mi. Sect. "Newcomerstown," Newcomerstown-Urichsville Rd., Tuscarawas Co. (**14**) 1.656 mi. Sect. "C-1" Dayton-Lebanon Rd., Warren Co. (**15**) 10.248 mi. Sects. "G," "H" and "K," Bowling Green-Fremont Rd., Wood Co., from G. B. Walther, 425 Amer. Bank Bldg., Lima, (**a1**) $9,391 (**a2**) $7,921; from W. Sousley, Ada, (**b1**) $7,243 (**c1**) $7,233 (**b2**) $6,355 (**c2**) $5,608 (**c8**) $39,873; from Stringer & Springer, Wheeling Bank & Trust Bldg., Wheeling, West Va., (**a3**) $26,032 (**d3**) $19,036 (**a4**) $71,876 (**b4**) $55,623 (**d4**) $55,319; from C. E. Biehm, Georgetown, (**e5**) $12,508; from Knott & Meyers, Russelville, (**f5**) $11,950; from Homeberger & Wager, Sandusky, (**g6**) $44,100; from L. L. Aller, Worthington, (**c7**) $11,712 (**e7**) $10,105 (**f7**) $10,105 (**h7**) $6,833 (**j7**) $8,440; from Newell & Smith, Defiance, (**g8**) $40,574 (**g9**) $58,824; from Laubis Stone Co., Kenton, (**c9**) $54,624; from C. Krampton, Dayton, (**g10**) $47,876; from W. M. Brode Co., Newcomerstown, (**g11**) $117,066 (**g13**) $17,521; from Pringle & Buerkle, Batavia, (**k11**) $131,698; from Davis & Davenport, Spencerville, (**g12**) $27,044; from C. J. Uible, Hillsboro, (**f14**) $61,160 (**l 14**) $31,000; from J. Mathias, Toledo (**e and f15**) each $129,886. Noted Apr. 2.

Ill., Savanna — Concrete surfacing, etc. 5,550 sq.yd. Dist. 40, and paving 1,050 sq.yd. Dist. 41, from Carroll Constr. Co. (J. E. Bower), Milwaukee, Wis., $25,618.

Wis., Fond du Lac — J. Hohensee, city clk., Apr. 8, paving 22,226 sq.yd. 12th, 13th, Carpenter, Lloyd, Marys, Warner, South Sibley, Follett, Boyle, and South St., from A. Larson & Co., South Barstow St., Eau Claire, rein.-con., $74,728; from J. Rasmussen & Sons, foot of 7th St., Oshkosh, asphaltic concrete. $74,168. Noted Apr. 2.

Wis., West Allis — Bd. Pub. Wks., A. Wichner, supt., from Lex Constr. Co., 446 68th St., improving Burnham St. between east city limits, 7,555 cu.yd. grading at $1.25 per cu.yd., 15,684 sq.yd. rein.-con. paving $2.32 per sq.yd., vibrolithic concrete $2.43, rein.-con. in track zone, $2.38. Noted Mar. 26.

CONTRACTS AWARDED

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, to W. J. McHale Contg. Co., 1250 Jefferson St., grading, curbing, etc., Bay Ridge Ave. $3,248, to J. F. McHugh, East 42nd St. $1,866, to Grimm Contg. Co., 170 McKinley St., East 28th St. $2,315, to G. M. Mandatto, 129 29th St., West 6th St. $4,630, 76th St. $2,923, 66th St. $3,472, 80th St. $2,469, to T. V. Scott, 671 Halsey St., Ave. T. $1,396, 54th St. $1,729, to Carberry-Block Corp., 45 South 9th St., 80th St. $3,162; to Cranford Co., 52 9th St., asphalt paving Bay Ridge Ave. $7,886, 71st St. $7,492, 76th St. $7,418, 82nd St. $8,682, to Cleveland Trinidad Asphalt Paving Co., Flushing, East 28th St. $4,340, East 31st St. $3,780, to M. J. O'Hara, 717 65th St., Ave. T $3,468, 76th St. $7,243, 77th St. $7,503; to Brooklyn Alcatraz Co., 407 Hamilton Ave., recurbing and asphalt paving 6th Ave. $6,995, Bway. $10,476. Noted Apr. 9.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sheet asphalt repaving Fresh Meadow Rd., to W. P. MacDonald Constr. Co., 342 Madison Ave., New York City, $677,775. Old South Rd. from city line to Woodhaven Ave., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $68,460. Noted Apr. 16.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., to C. D. Beckwith, 2875 Bway., sheet asphalt paving Hunt Ave. $14,999; to Interboro Asphalt Co., 2306 Creston Ave., bituminous concrete paving Van Nest Ave. $37,411, to Gaffney Constr. Co., 50 East 42nd St., Mosholu Parkway, $25,992; to J. Gebert, grading, curbing, etc., Fteley Ave., $12,686, to I. F. Cavaluzzo, 1538 Walton Ave., Pelham Parkway, $9,927; to Remo Realty Co., 645 East Tremont Ave., sewers in Benedict and Edison Aves. $5,200 and $3,385 respectively. Noted Apr. 16.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Stuyvesant Pl. and Bway., to J. E. Donovan, Richmond Terrace, Port Richmond, $30,263. Noted Apr. 9.

Pennsylvania—State Dept. Hys., Harrisburg, (**R. means Route and A. Application**) grading and rein.-con. surfacing 49,500 sq.yd. R. 265-4, A. 3332, Enon Valley Boro, Lawrence Co., to Colonial Constr. Co., Arrott Pl., Pittsburgh, $218,426; 36,863 sq.yd. R. 71, Sec. 2, West Franklin Twp., Armstrong Co., to C. Winters Constr. Co., Renfrew, $172,262; 65,800 sq.yd. R. 17, Monroe and Albany Twps., Bradford Co., to Horn & Devling, Athens, $367,994; 23,026 sq.yd. R. 27, Centre Hall Boro-Potter and Spring Twps., Centre Co., to Reitz Bros., Sunbury, $121,659; 126,800 sq.yd. R. 48, Sects. 3 and 4, Cumberland Valley Twp., Bedford Co., to M. Bennett & Sons, Indiana, $658,057; 567 sq.yd. R. 57, Snyder Twp., Blair Co., to A. L. Anderson & Bros., Inc., Altoona Trust Bldg., Altoona, $22,548. Noted Apr. 2.

Pa., Ford City—Paving 2nd St., 5th Ave. extension, 3rd, 4th and 5th Aves., to McCrady Bros., Braddock. Engrs. est. $50,000.

Pa., Pittsburgh — Grading, curbing and paving Middletown Rd., to Booth & Flinn Ltd., Forbes St., $41,053, engrs. est. $45,000; and Norwich Ave., to Dunn & Ryan Constr. Co., Keystone Bldg., $31,335, engrs. est. $32,000.

Md., Baltimore — Bd. Awards, grading and concrete paving alleys in Contr. 114, to Arundel Constr. Co., Knickerbocker Bldg., $23,715. Noted Apr. 2.

Md., Baltimore—Bd. Awards, City Hall, cement paving 15,390 sq.yd. Contr. 274-NA, to Aiello Constr. Co., Gough and 4th Sts., $41,336; sheet asphalt paving 9,900 sq.yd. Contr. 274-OCOA, to P. Flanigan & Son,

Streets and Roads (Continued)

Harford Rd. and Baltimore & Ohio R.R., $55,024. Noted Apr. 9.

W. Va., Huntington—Vitr. brick surfacing Brandon Rd., to Karr & Short, Huntington, $42,055. Noted Apr. 2.

North Carolina — State Hy. Comn., Raleigh, **(S. A. P. means State Aid Project)** grading and concrete paving, etc. 8.35 mi. S. A. P. 915-B, Cherokee Co., to R. H. Wright & Son, Dillsboro, $208,358; 8.62 mi. S. A. P. 915-A, Cherokee Co., to Appalachian Constr. Co., Knoxville, Tenn., $223,-963; 5.99 mi. S. A. P. 297, Wilson Co. and 6.51 mi. S. A. P. 161, Nash Co., to Highway Eng. & Constr. Co., Selbyville, Del., $187,892 and $207,093 respectively; 3.44 mi. S. A. P. 753-C, Stokes Co., to G. R. Martin, Salisbury, $99,137; 10.77 mi. S. A. P. 215, Craven Co., to Virginian Eng. Co., Newport News, Va., $277,520; 12.61 mi. S. A. P. 720-C, Caldwell Co., to Thompson-Caldwell Constr. Co., Cherryville, $318,352; 6.57 mi. S. A. P. 487-A, Wake Co., 6.62 mi. S. A. P. 448, Lee Co., to C. B. Hester, Greensboro, $52,779 and $48,548 respectively; 10.13 mi. S. A. P. 824, Cleveland Co., to Geer & Wilson, Rutherfordton, $60,-871. Noted Apr. 2.

Ala., Decatur—Asphalt surfacing 8 blocks 5th Ave. W., Davis and Vine Sts., 25 and 40 ft., to Independent Paving Co., Amer. Trust Bldg., Birmingham, $27,000. Engrs. est. $27,200. Noted Feb. 26.

Miss., Sardis—Panola Co., gravel surfacing 3.117 mi. Federal Aid Project 55, to Williamson & Wilbourn, Water Valley, Miss., $34,032; grading, etc., 14 mi. Como-Crenshaw Rd., to S. B. Boyd, Columbia, $29,618. Noted Mar. 19.

O., Canton—Bd. Control, improving 15th St. S. W., to R. E. Cash Asphalt Paving Co., Cincinnati, $97,455. Engrs. est. $100,000. Noted Mar. 19.

O., Shadyside—City Council, rein.-con. paving West 40th, 41st and 44th Sts., to H. M. Bates, Steubenville, $48,973. Noted Mar. 19.

Mich., Detroit — To Cleveland Trinidad Paving Co., 402 Hammond Bldg., grading and paving with 3½ in. sheet asphalt on 8 in. concrete 1,106 sq.yd. Waverly Ave. $5,713, 1,165 sq.yd. St. Martins Rd. $5,326, 2,488 sq.yd. Humphrey Ave. $12,886; to Detroit Asphalt Paving Co., 909 Free Press Bldg., 4,750 sq.yd. Wildemere Ave. $22,167, 4,640 sq.yd. Bedford Rd. $22,633, 2,480 sq.yd. Burt Ave. $12,113 7,980 sq.yd. Beaconsfield Ave. $37,018, 2,040 sq.yd. Gladys St. $9,949 2,210 sq.yd. Griggs Ave., Sect. 2 $10,343, 4,650 sq.yd. Keller Ave. $21,761, 4,040 sq.yd. Burnette Ave. Sect. 1, $19,359, 14,590 sq.yd. LaSalle Ave. $63,663, 3,580 sq.yd. Birwood Ave., Sect. 2 $16,853, 2,570 sq.yd. Birwood Ave., Sect. 1 $12,113, 6,100 sq.yd. Lenox Ave. $28,696, 2,790 sq.yd. Monte Vista Ave., Sect. 2 $13,012, 663 sq.yd. Otsego Ave. $3,765, 5,210 sq.yd. Prairie Ave. $26,948; to M. R. Hanna Co., 2700 Six Mile Rd., 2,680 sq.yd. Hawthorne Ave. $13,318, 11,600 sq.yd. Iverness Ave. $53,511, 5,370 sq.yd. Chesterfield Rd. S. $26,047, 5,630 sq.yd. Chesterfield Rd. N. $25,100, 7,100 sq.yd. Petoskey Ave. $30,664, 6,340 sq.yd. Pembroke Ave. $29,231, 1,460 sq.yd. Gardendale Ave. $6,595, 1,930 sq.yd. Sheffield Rd. $8,748, 1,930 sq.yd. Wakefield Ave. $8,799, 4,120 sq.yd. Canterbury Rd. $18,409, 1,225 sq.yd. Roslyn Rd. $5,674, 3,190 sq.yd. Shresbury Rd. $14,420, 7,310 sq.yd. Picadilly Rd. $33,045, 8,210 sq.yd. Gallagher Ave. $37,806, 3,510 sq.yd. Carmel Ave. $16,129, 5,020 sq.yd. Longwood Ave. $22,377. Noted Apr. 2.

Michigan — State Hy. Dept., Lansing, grading and concrete paving 5.2 mi. State Trunk Line Rd. 27-21, B. Sanilac Co., to C. G. Milne, Saginaw, $98,488; 1.602 mi. State Trunk Line Rd. 27-21 A, Sanilac Co., to J. H. Baker & Son, Port Huron, $34,000. Noted Apr. 16.

Michigan — State Hy. Dept. at office Comrs. Eaton Co., Charlotte, grading and concrete paving Federal Aid Project 100 D, to H. A. Crane, Midland, $180,945. Noted Apr. 16.

Michigan — State Hy. Dept., Lansing, concrete paving 3.402 mi. State Trunk Line Rd. 27-15, Sect. B, St. Clair Co., to J. H. Baker & Sons., Port Huron, $100,658.

Mich., Detroit — Dept. Pub. Wks., City Hall, 325,000 granite blocks, f.o.b. Detroit, to Wisconsin Granite Co., 11 South LaSalle St., Chicago, Ill., $35,100.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete surfacing 9.89 mi. Route 36, Sects. 14-A and 15-A, Pike Co., and 6.36 mi. Route 24, Sect. 1, Christian Co., to Stevens Bros., St. Paul, Minn., $69,661 and $133,488 respectively, 7.6 mi. Route 8, Sects. 47-A and 48-A, Peoria, Knox and Fulton Counties, to W. D. Knapp, Peoria, $41,736, 1.64 mi. Route 8, Sect. 9, Iroquois Co., to Divine Constr. Co., Watseka, $35,932, 6.5 mi. Route 1, Sect. 32, Saline Co., to French Constr. Co., Fairfield, $109,979, 12.17 mi. Route 5, Sects. 28 and 29, JoDaviess Co., to Black Hawk Constr. Co., Waterloo, Ia., $276,799, 6.25 mi. Route 5, Sects. 30 and 31, JoDaviess Co., to Western States Paving Co., Davenport, Ia., $106,866, 11.11 mi. Route 9, Sect. 46, Vermilion Co., to Etchison-Patterson Co., Casey, $109,785, 11.18 mi. Route 22, Sect. 20, Lake Co., to Universal Eng. Co., Medford, Wis., $229,922, 2.57 mi. Route 31, Sect. 10, Brown and Schuyler Counties, to McMahon Constr. Co., Rochester, Ind., $58,-730, 15.39 mi. Route 36, Sects. 11, 12 and 13, Adams Co., to Hamilton-Hoffman Constr. Co., Carbondale, $362,445, 1.27 mi. Route 37, Sects. 11-x and 13-x, Franklin and Williamson Counties, to Mitchell Constr. Co., Marion, $35,888, 17.99 mi. Route 9, Sects 37, 38, 40, 41 and 41-D, McDonough and Fulton Counties, to Jansen & Schaefer, 212 North Capitol St., Pekin, $376,874; gravel surfacing 2.14 mi. Route 12, Sect. 9, Clay and Richland Counties, and grading 3.31 mi. Route 38, Sects. 2 and 2-A, Jersey Co., to R. G. Flauger & Co., Urbana, $21,014 and $92,704 respectively; grading 6.1 mi. Route 43, Sect. 1, Menard Co., to Duncan Constr. Co., Champaign, $121,856, 1.94 mi. Route 33, Sect. 7-A, Effingham Co., to W. T. Bland, Murphysboro, $21,132, 4.07 mi. Route 27, Sect. 16-A, Carroll and Ogle Counties, to S. J. Groves & Sons Co., Montreal St. and Cleveland Ave., Minneapolis, Minn., $29,300. Noted Dec. 11 and Apr. 2.

Ill., Elgin — Grading and rein.-con. surfacing Franklin and Ann Sts., to C. E. Giertz & Sons, Elgin, $20,892 and $41,306 respectively.

Ill., Pontiac — State Aid Rd. Comn., Livingston Co., rein.-con. surfacing 1 mi. road, 18 ft., in Reading Twp., to Hartman & Clark, Streator, $30,823.

Wis., Milwaukee — Dept. Pub. Wks., R. Stelting, comr., concrete paving 1 alley each to Milwaukee Genl. Constr. Co., 427 Mitchell St., $6,317, to J. Bluhm & Son, 1298 Achilles Pl., $3,582, to W. F. Hunt, 1036 1st St., $6,567, to Parkinson Constr. Co., 32 227th St., $4,230; 2 alleys each, to C. Slattery, 584 71st Ave., West Allis, $8,393 and to F. Blodgett, 521 Newton Ave., $17,-877; 3 alleys, to Schwerm Bros., 50 Lee St., $14,931. Noted Apr. 9.

Wis., Milwaukee—R. E. Stoelting, comr. Dept. Pub. Wks., vibrolithic concrete paving portions of Arthur Ave., to Czerwinski Constr. Co., 775 National Ave., $3,328, Finn Pl., to A. Retziaff, 868 Island Ave., $2,336, 14th and 15th Sts., to S. and H. Constr. Co., 92 Mason St., $15,169; vibrolithic concrete paving 44th, 45th and Chambers Sts., also one course concrete paving 2nd Ave., to R. Gumz, 831 13th Ave., $18,254 and $5,637 respectively; one course concrete paving 17th St., to G. W. Hirth, 1309 7th St., $2,625; concrete sidewalks on portions of Lisbon Ave., to Tex. Constr. Co., 446 68th Ave., West Allis, $221. Noted Apr. 16.

Wis., Neenah—H. S. Zemlock, city clk., grading, curbing, rein.-con. paving, etc., 10,300 sq.yd. 1st, 2nd, Lincoln and Center Sts., to C. Johnson, Hayes Bldg., Oshkosh, $25,721. Noted Apr. 16.

Wis., Waukesha—C. J. Hahn, highway comr., grading and concrete surfacing, etc., 38,000 sq.yd. Janesville Plank Rd., Waukesha Co., to S. and H. Constr. Co., 92 Mason St., Milwaukee, $77,225. Noted Apr. 2.

Ia., Grundy Center—Grundy Co., grading 40,000 cu.yd. various roads, to W. Dutton, Boone, at $0.275 per cu.yd.; 6 bridges, to Fiefield Constr. Co., Waterloo, $10,700; 3 bridges, to Waugh & Tackman, Clarksville, $5,987, 25 bridges and culverts, to Mamminga Constr. Co., $16,170.

Ia., Indianola—Concrete surfacing 36,000 sq.yd. various streets to Lytle Constr. Co., 625 Trimble Bldg., Sioux City, at $2.14 per sq.yd. and resurfacing over wood block approximately 27,000 sq.yd., to J. MacVicar, Jr., 1338 9th St., Des Moines. Noted Apr. 9.

Minn., Preston—F. J. Ibach, aud. Fillmore Co., grading 6 mi. Job 2503, State Road 3, 40,000 cu.yd. excav., to P. T. Pfeifer Co., St. Charles, $13,480, and 2 beam span bridges on above, 165 cu.yd. concrete and 110 cu.yd. concrete in culverts, to I. A. Vickerman, Preston, $6,597; gravel surfacing 12 mi. Job 2504, State Roads 6 and 8, to H. Miller, Hartley, $10,170, and 6 mi. Job 2505, State Road 5, to R. W. Klemmer, Owatonna, $9,387. Noted Mar. 26.

North Dakota — State Hy. Dept. and Comrs. Pierce Co., at Court House, Rugby, improving 9.078 mi. Federal Aid Project 204 east and north of Balta, 89,969 cu.yd. earth and 3,400 cu.yd. rock excav., 5,541 cu.yd. overhaul, etc., to Schultz Bros., Bowbells, $31,143. Noted Mar. 5.

Mo., Keytesville—Grading, curbing and vibrolithic concrete paving Bway. from Front to 4th Sts., to Reed & Wheelock, Clay Center, Kan., $29,415.

Mo., Salisbury — Concrete paving 8,675 sq.yd. various streets, to Reed & Wheelock, Clay Center, Kan. $28,725.

Mo., Sedalia—N. L. Nelson, city clk., concrete surfacing 5,100 sq.yd. Wilkerson St., to De Jarnett & Schrader, Sedalia, at $2.16 per sq.yd.; 3,100 sq.yd. Vermont St. and 4,500 sq.yd. 7th St., to F. T. Leeming, Sedalia, at $2.17 and $2.13 respectively; 3,500 sq.yd. 6th St. and 4,650 sq.yd. Washington St., to Bertman & Menefee, Sedalia, at $2.14 and $2.22 respectively. Noted Mar. 19.

Tex., Plano—For 2½ in. rock asphalt on 6 in. gravel surfacing various city streets, to D. B. Talliaferro, Sherman, $77,891. Engrs. est. $75,000.

Tex., Wichita Falls—City and Wichita Co., surfacing 12 blocks Holliday St., to L. E. Whitman & Co., Morgan Bldg., $93,573.

Okla., Clinton — Grading, curbing and sheet asphalt surfacing 3,600 sq.yd. 13th St., to Western Paving Co., Tradesmens Bldg., Oklahoma City, $34,643. Engrs. est. $35,000. Noted Feb. 19.

Okla., Durant — Grading, curbing and concrete surfacing 9,800 sq.yd. Beech St., to S. O. Maxey & Co., Durant, $32,319. Engrs. est. $34,400.

Okla., McAlester — Grading, curbing, paving, etc. 5 blocks Seminole St., to J. W. Rooks, McAlester, at $2.30 per sq.yd. Noted Apr. 2.

Okla., Oklahoma City—Grading, curbing and sheet asphalt surfacing 5,850 sq.yd. Harvey St. from 25th to 27th Sts. and East St. from 4th to 7th Sts., to Western Paving Co., Tradesmens Bldg., Oklahoma City, $31,746. Engrs. est. $32,000.

Okla., Wetumka — Grading, curbing and vertical fibre brick surfacing 7,100 sq.yd. East St. Louis Ave., to Park & Moran, Box 622, Okmulgee, $30,718. Engrs. est. $33,345. Noted Apr. 2.

Idaho—W. J. Hall, comr. Pub. Wks., at office Commissioners Shoshone Co., Wallace, constructing 3.89 mi. Federal Aid Project 73-D, between Cataldo and Kingston, Shoshone Co., 8.27 acres clearing and grubbing, 28,550 cu.yd. earth, 7,242 cu.yd. loose and 3,901 cu.yd. solid rock excav., 43,295 sta.yd. overhaul, etc., also 0.22 mi. road between Cataldo and Kootenai, Shoshone Co., 3 acres clearing and grubbing, 7,940 cu.yd. excav., 511 cu.yd. crushed rock surfacing, etc., $39,237 and $4,817 respectively 10.22 mi. Federal Aid Project 84-B, between Moreland and Taber, Bingham Co., 31,807 cu.yd. earth, 1,491 cu.yd. loose and 514 cu.yd. solid rock excav., 5,835 sta.yd. overhaul, etc., to Dayley & Adams, Blackfoot, $12,466.

Colorado—State Hy. Dept., Denver, concrete paving 1.908 mi. Ft. Logan Highway, Federal Aid 904-B, Araphoe Co., to R. L. Hanes, 617 1st Ave., Denver, $37,985. Engs. est. $47,770. Noted Apr. 16.

Nevada—State Hy. Comn., Carson City, constructing 10.24 mi. highway between Westgate and Eastgate, Contr. 122, Churchill Co., 50,500 cu.yd. excav., 1,924 sta.yd. overhaul, 12,200 cu.yd. load and screen gravel, 23,250 yd. mi. haul and 11,-700 sq.yd. spread gravel, etc., to Dodge Bros., Inc., Fallon, $60,852. Noted Mar. 19.

Arizona—State Hy. Comn., Phoenix, improving 9 mi. Prescott-Phoenix Highway, Federal Aid Project No. 72-B, to Schmidt & Hitchcock, Phoenix, $222,828. Noted Mar. 26.

Calif., Inglewood—To G. R. Curtis Co., 2440 East 26th St., Los Angeles, improving Grevillea Ave., 154,445 sq.ft. grading at $0.02 per sq.ft., 95,360 sq.ft. 5 in. Willite paving $0.17, 25,157 sq.ft. sidewalks $0.16, 5,060 ft. 18 in. curb $0.55, etc., total approximately $26,520.

Calif., Isleton — Town Trustees, grading and asphaltic concrete paving, etc. 180,000 sq.ft. various streets, to Valley Paving & Constr. Co., Box 1057, Visalia, $45,172. Noted Apr. 2.

Calif., Los Angeles—Improving Ravenna Ave. and J St. Impvt. Dist., 18,653 cu.yd. cut, 8,970 cu.yd. fill, 357,420 sq.ft. 6 in. concrete paving, 43,534 sq.ft. cement sidewalks, 8,239 lin.ft. cement curbing, 4,351 sq.ft. oiled surface on rock, to Griffith Co., 502 Railway Bldg., $89,345, engrs. est. $117,566; Union Ave., 5,900 cu.yd. cut., 150,067 sq.ft. 8 in. concrete paving, 6,831 sq.ft. cement sidewalks, 1,474 lin.ft. cement curbing, etc., to W. Liddington, 420 East 60th St., $42 556, engrs. est. $46,260.

Ont., Cornwall—United Counties of Stormont, Dundas & Glengarry, grading and 8 mi. macadam roads, etc., in Contrs. 70-77 inclusive, to F. M. Eagleson, Winchester,

Streets and Roads (Continued)

$49,489, to McIntosh & McDougall, Cornwall, $18,392, McCallum Bros. & Lalonde, Apple Hill, $8,946, to O. Major, Williamstown, $7,250.

Ont., Welland—R. Cooper, engr., County Bldg., 4 mi. waterbound macadam highway, for Welland Co., to J. Pirson, Stevensville, $7,775 per mi. and 2.75 per cu.yd. for additional stone. Noted Mar. 31.

Buildings—Industrial

PROPOSED WORK

N. H., Wolfeboro — MILL — Wolfeboro Woolen Mills, H. H. Hart, mgr., plans rebuilding mill recently destroyed by fire. $150,000. Engineer and architect not selected.

Mass., Boston—REPAIR and SERVICE GARAGE—Y D Service Garage, c/o L. S. Joslin, archt., 339 Newbury St., having preliminary plans prepared 3 story, 55 x 115 ft., rein.-con., 345-347 Newbury St. $100,000.

Mass., Springfield — SUB-STATION — United Electric Light Co., L. J. Scott, genl. mgr., 73 State St., plans sub-station, Wilbraham Ave. $150,000. McClintock & Craig, 33 Lyman St., engrs. Noted Mar. 5.

N. J., Camden—PLANT—J. R. Evans Co., 2nd and Erie Sts., plans 1 story, 260 x 480 ft., concrete block and brick. $200,000. Engineer and architect not selected.

Va., Richmond — PLANT — Albermarle Paper Mfg. Co., Tredegar St., plans 4 story addition. $200,000. B. W. Cole, treas.

Ga., Augusta—SUB-STATION—Augusta-Aiken Ry. Co., Lamar Bldg., engaged J. G. White Eng. Corp., 43 Exch. Pl., New York City, to design and construct outside substation at Stevens Creek, alterations and additions to Augusta substation, etc., incl. additions and alterations to crossing towers, poles and telephone system.

Ga., Louisville — LIGHT PLANT — City plans electric light plant. $50,000.

Ga., Macon—PLANT—Dixie Fireproofing Co., Georgia Casualty Bldg., W. P. Stevans, pres., making plans clay making plant. $100,000.

Fla., Miami Beach — LAUNDRY — Sanitary Cleaning Co., 128 North Main St., having plans prepared laundry. $1,000,000. Private plans.

La., Donaldsonville — LIGHT PLANT — See "Waterworks."

Miss., Peabody — PLANT — Woelfel Embossing & Decorating Co., D. E. O'Connor, pres., Pierpont St., plans rebuilding plant recently destroyed by fire. $40,000. Engineer and architect not selected.

Tenn., Chattanooga — PLANT — Burdett Oxygen Co., Alton Park, plans new plant. $100,000.

Tenn., Chattanooga — TEXTILE FACTORY — Natl. Yarn Processing Co., plans two 2 story, rein.-con. buildings, 100,000 sq.ft. floor space.

O., Dover — FOUNDRY — Penn Mold & Mfg. Co. soon takes bids 1 story, 77 x 160 ft., brick, steel and concrete addition, West 3rd St.; steel contract, to Canton Bridge Co., Beldon and 19th St. N. E., Canton. Archts. est. $40,000.

Ind., Columbus — PLANT — Columbus Packing Co. plans three 1 story, 60 x 151 ft., 50 x 150 ft., and 50 x 75 ft., brick and steel plant, plain foundations. $65,000. Private plans.

Mich., Iron Mountain — PLANT — Iron Mountain Gas Co., W. L. Tibbs, pres., 214 West Water St., Milwaukee, Wis., having plans prepared 2 story, brick and steel gas plant, plain foundation and new gas holder, here. $100,000. Gas Mchy. Co., 1900 Euclid Ave. Cleveland, O., engrs.

Ill., Chicago — FACTORY — Kellogg Box Board Co., 2555 West Taylor St., having plans prepared, 1 story, 125 x 350 ft., rein.-con., brick and stone, plain foundation. $150,000. Moore & Neely, 219 East Superior St., engrs.

Ill., Chicago—PRINTING—Cueno Press Co., Inc., 455 West 22nd St., having sketches made by A. L. Alschuler, 28 East Jackson Blvd., 203 x 300 ft. printing plant, Archer St. and south branch Chicago River. $400,000-$500,000.

Wis., Green Bay — FACTORY — Green Bay Awning & Tent Co., 524 Main St., plans 2 story, 30 x 120 ft., brick and timber, plain foundation, Main St. $40,000. Engineer and architect not selected.

Wis., Madison — PLANT — J. Heilprin Fruit Co., West Mifflin St., making plans 1 story, brick, rein.-con. and steel cold storage and fruit plant, Wilson St. $40,000. Private plans.

Wis., Madison—PLANT—State Journal Printing Co., 115 South Carroll St., having plans prepared by J. R. and J. Law, 1st Central Bldg., 2 story and basement, 50 x 88 ft. newspaper plant, rein.-con., brick and steel, plain foundation. $50,000.

Wis., Racine — FOUNDRY — Standard Fdry. Co., 1600 Kewaunee St., having plans prepared by A. Wickland & Co., archts. and engrs., 5 South Wabash Ave., Chicago, Ill., 1 story, 200 x 240 ft., brick and steel, plain foundation, Kewaunee St. $250,000.

Wis., Racine — MANUFACTURING — Racine Malleable & Wrought Iron Co., Lakeside St., plans rebuilding 1 story, 50 x 300 ft., brick and tile manufacturing plant, plain foundation, recently destroyed by fire. Engineer and architect not selected.

Wis., Richland Center—FACTORY—E. B. Prouty, Spring Green, plans 2 story and basement, rein.-con., brick and steel factory, here. $40,000. Engineer and architect not selected.

Wis., Stevens Point—COLD STORAGE—A. Shafton & Co., South 2nd St., plans 2 story, 75 x 80 ft., brick and concrete cold storage plant, plain foundation. $40,000. Engineer and architect not selected.

Minn., St. Paul — FACTORY — Farmer Canning Co., J. L. Farmer, pres., Montpelier, Ia., plans 2 story and basement, brick factory, St. Paul Park. $40,000. Engineer and architect not announced.

Mo., North Kansas City — PLANT — Deckard Steel & Wire Co., Pittsburg, Kan., plans plant, on 2½ acre site north of Armour-Swift-Burlington bridge over Missouri River, here. $250,000.

Tex., El Paso — FACTORY — Hayman Krupp & Co., 119 West Overland St., having plans prepared and soon takes bids 2 story, concrete and brick factory. $150,000. Private plans.

Tex., Wichita Falls—ICE PLANT—D. L. Cross, Linz Bldg., Dallas, and W. P. Lincoln, 5400 Gaston Ave., Dallas, plan ice plant, here. $50,000. Engineer and architect not selected.

Wash., Tacoma—PLANT—Cascade Paper Co., West Tacoma St., plans plant addition. $400,000.

Calif., Meadow Valley—POWER PLANT, etc.—R. B. Muir, (interested), 2765 Steiner St., San Francisco, plans power plant, incl. rein.-con., multiple type storage dam, 92 ft. high, 940 ft. long on top, 50 ft. on bottom, storing 78,000 acre ft., also 10.6 mi. conduit, etc., here.

Calif., San Luis Obispo — LIGHTING PLANT—City plans election $40,000 or more bonds, for lighting plant.

Que., Bromptonville—MILL—Brompton Pulp & Paper Co. Ltd., plans pulp mill. $500,000.

Ont., Guelph—PLANT—City plans central heating plant for general hospital. $45,000. N. S. Nicklin, city engr.

Ont., Kenora — MILL — Backus Brooks Co., 1 and 2 story, rein.-con., brick and steel mill, plain foundation. $1,500,000. J. T. McLennan, Kenora, engr.

Ont., Listowel—FACTORY—City Dairy Ltd., Spadina Crescent, Toronto, having plans prepared by Gore, Nasmith & Storrie, engrs., Confederation Life Bldg., Toronto, 2 story, rein.-con., brick and steel, plain foundation. $100,000.

Ont., Toronto — FACTORY — Canadian SKF Co., 83 King St. W., plans 2 story and basement, rein.-con., brick and steel, plain foundation, Bay St. $50,000. Engineer and architect not selected.

Ont., Toronto—PLANT—A. R. Clarke & Co., Ltd., 633 Eastern Ave., having plans prepared by M. Parker, engr., c/o owner, 2 story and basement, rein.-con., brick and steel addition, plain foundation, Eastern Ave. $160,000.

Ont., Toronto—PLANT—Consumers Gas Co., 55 Adelaide St. E., plans gas plant addition. $500,000. Private plans.

Ont., West Lorne—PLANT—Dominion Canners Ltd., Hamilton, plans rebuilding plant, recently destroyed by fire. $100,000.

BIDS DESIRED

Mass., Lawrence—PLANT—H. P. Hood & Sons, Charlestown, taking bids 1 story, brick addition, here. $40,000. C. T. Main, 200 Devonshire St., Boston, engr.

Mass., Malden—FACTORY—C. Nidener Sons Co., 20 James St., taking bids altering and constructing 3 story, brick and timber additions. $40,000. C. T. Main, 200 Devonshire St., Boston, archt. and engr.

Mass., Worcester — WAREHOUSE — Budish & Kaplan Co., 20 Bridge St., taking bids 2 story and basement, rein.-con., brick and steel, Bridge St. To exceed $40,000. J. P. Kingston & Son, 507 Main St., archts.

Conn., Milldale (Hartford P. O.)—FACTORY—Clark Bros. Bolt Co., taking bids 1 story, 45 x 125 ft., brick addition, Milldale St., $40,000. W. T. Arnold, 34 West Main St., Meriden, archts. Noted Apr. 9.

N. Y., Mt. Pleasant—BOILER PLANT—May 4, at office F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, White Plains, alterations and additions to boiler plant, etc., at Grasslands Hospital, here. J. F. Musselman, 101 Park Ave., New York City, consult, engr.; adv. E. N.-R. Apr. 23.

Pa., Phila.—PLANT—Apr. 20, by C. E. Wunder, archt., 1520 Locust St., 3 story and basement, 83 x 136 ft., rein.-con., brick and stone, plain foundation, 55th & Sansom Sts., for Security Bank Note Co., 22[illegible] Chestnut St. $150,000.

Wis., New London—CANNERY—Hamilton & Sons Canning Co. taking bids 3 story, 50 x 150 ft., brick and timber addition, plain foundation. $45,000. Private plans.

Wis., West Allis — SUB-STATION — F. Luber, archt., c/o Milwaukee Electric Railway & Light Co. (owner) Pub. Serv. Bldg., Milwaukee, taking bids 2 story, 40 x 63 ft., brick and concrete, plain foundation, 77th Ave. $40,000-$50,000.

S. D., Rapid City—PLANT—May 6, by Rapid City Packing Co., E. E. Hill, genl. mgr., 3 story, 60 x 80 ft., rein.-con. and brick. $65,000. J. C. Ewing, Rapid City, archt.

CONTRACTS AWARDED

N. H., Nashua—BAKERY—Nashua Baking Co., 11 Mulberry St., 2 story and basement, 75 x 135 ft., rein.-con. addition, Mulberry St., to S. Belanger & Son, 308 Main St. Archts. est. $75,000.

Mass., Brighton (Boston P. O.) — GARAGE—R. A. Jennings, 12 Everett St., 1 story, 100 x 140 ft., brick, stone and concrete, plain foundation, Harvard and Brighton Aves., to R. J. Gouvreau, 43 Tremont St., Boston. $150,000.

Mass., Cambridge (Boston P. O.) — PLANT—Houghton Mifflin Co., 2 Park St., Boston, 1 story, brick and timber printing plant addition, to Turner Constr. Co., 178 Tremont St., Boston. Archts. est. $40,000.

Mass., Cambridge (Boston P. O.)—FACTORY — Lever Bros., Bway., altering 3 story, brick factory, Bway., to Walsh Bros., Hampshire St. Archts. est. $40,000. Noted Feb. 12.

Mass., Lawrence — BAKERY — White House Baking Co., 2 story, rein.-con. and steel, Florence Rd., to Hutton & Sons, 42 Holly St. Archts. est. $40,000.

Mass., Lawrence — REPAIR and SERVICE GARAGE—L. Guerrern, 87 Bway., will build 1 story, 100 x 140 ft., rein.-con. and steel, plain foundation, Essex St., by day labor. $40,000. H. Petzeld, Bay State Bldg., archt.

Mass., Newtonville (Boston P. O.)—REPAIR and SERVICE GARAGE—Newton Motor Sales Co., West Newton Sq., Newton, 1 and 2 story, 30 x 70 ft., and 60 x 105 ft., rein.-con. and steel, plain foundation, Washington St., here, to J. McDonald Constr. Co., 77 Summer St. Archts. est. $50,000. Noted Apr. 2.

Mass., Worcester — PLANT — Warren Belting Co., 33 Artic St., 3 story, brick and timber addition, to E. J. Cross Co., 82 Foster St. Archts. est. to exceed $40,000.

Conn., Buckland—MILL—E. E. Hilliard Co., Buckland, 3 story and basement, 78 x 227 ft. carding, spinning and finishing unit, brick and steel, to H. Wales Lines Co., 134 State St., Meriden. Archts. est. $200,000. Noted Apr. 16.

Pa., McKeesport—PLANT—McKeesport Journal, general contract 2 story and basement, 30 x 140 ft. plant, 6th Ave. and Walnut St., to P. L. Fleckenstein, 1300 Grandview Ave. Archts. est. $40,000.

Pa., Phila. — BAKERY — Tasty Bakery Co., 5 story and basement, 60 x 80 ft., rein.-con. and brick addition, plain foundation, 2801 Hunting Park Ave., to J. N. Gill Constr. Co., Center City Bldg.

Pa., Phila. — FACTORY — Certenteed Products Co., 1 story, 83 x 113 ft., rein.-con. and brick, 2nd and Erie Sts., to Stoffiet & Tillotson, Wesley Bldg.

Pa., Phila.—PLANT—G. W. Blabon Co., 21st and Hunting Park Aves., 4 story and basement, 30 x 90 ft., rein.-con. and brick, plain foundation, to M. Steele & Sons Co., 219 North Broad St., Phila.

Pa., Pittsburgh — PLANT — Pittsburgh Piping & Equipment Co., 35th and Charlotte Sts., general contract 1 story 120 x 300 ft., 80 x 150 ft. and 50 x 220 ft. plant, 43rd and Charlotte Sts., to McClintic Marshall Co., Oliver Bldg. Noted Apr. 9.

La., New Orleans — WAREHOUSE — Liberty Oil Co., 518 St. Charles St., 1 story, steel and timber, Venus and Rocheblave Sts., to H. W. Bond & Bros., 1019 Constantinople St., $48,482. Noted Jan. 8.

La., Shreveport — PLANT — Louisiana Refrigerated Products Corp., 1109-1121 Spring St., will build 2 story, rein.-con. and brick addition to Plant 2, 2465 Texas Rd., by day labor. $60,000.

O., Dover—FOUNDRY—See "Proposed Work."

Ind., Indianapolis—FACTORY—Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburgh, Pa., general contract 2 story and basement, 160 x 300 ft., Pratt and Senate Sts., to Thompson Binger Co., Inc. Archts. est. $160,000. Noted June 26.

Wis., Milwaukee—FACTORY—A. Weinbrenner Co., 66 Juneau Ave., 3 story, 57 x 164 ft., and 19 x 57 ft. factory, also 20

Buildings—Industrial (Continued)

x 38 ft. boiler house, both brick and timber, plain foundation, Richards St., to P. Riesens Sons., 1018 Humboldt Ave. Engrs. est. $75,000.

Wis., Sturgeon Bay — CANNERY — Reynolds Preserving Co., 2 story, 40 x 100 ft. and 40 x 40 ft. cannery, also 20 x 40 ft. boiler house, both brick and timber, plain foundation, here, to Default & Hirsch, Sturgeon Bay. Archts. est. $50,000.

Wis., Two Rivers — MANUFACTURING —Kahlenberg, Bros. Co., 1 story, 85 x 105 ft., brick and steel addition, plain foundation, to W. W. Oeflein, 86 Michigan St., Milwaukee. Engrs. est. $50,000. Noted Mar. 19.

Ia., Des Moines—FACTORY—Northland Milk & Ice Cream Co., 11 West 28th St., Minneapolis, Minn., 2 story and basement ice cream factory, brick, here, to W. F. Kuchars, 622 Hubbell Bldg. Archts. est. $50,000. Noted Jan. 8.

Minn., Hibbing—PLANT—R. Regan, chn. Power Bd., 40 ft., brick and concrete addition to power house, etc., to Phelps-Drake Co., Hibbing, $289,000. Owner's name withheld. Noted Mar. 5.

Minn., St. Paul—FACTORY and STORE —Griggs, Cooper & Co., Bway. and 3rd St., general contract 4 story and basement, 120 x 280 ft., rein.-con., brick, tile and stone, Fairview and University Aves., to C. Skooglun, 502 Ryan Bldg. Archts. total est. approximately $500,000. Noted Dec. 25.

Mo., Kansas — STEEL MILL — Kansas City Bolt & Nut Co., W. L. Allen, pres., Independence and Winchester Sts., three cast steel rolling mill additions on foundations already constructed, to United Eng. Fdry. Co., Farmers Bldg., Pittsburgh, Pa., $150,000.

Tex., Ft. Worth — OIL REFINERY — Transcontinental Oil Co., A. J. Slagter, genl. supt., Equity Bldg., Muskogee, Okla., will build oil refinery, incl. 14 new filters, extension to barrelling and compounding plant, continuous treating system, new clay burner buildings, etc., here, by day labor.

Tex., Houston—FOUNDRY—Lloyd Metal Co., 1320 Carr St., will build 1 story, 50 x 100 ft. steel foundry, by day labor. A. Delisle, 1908 Drew Ave., archt.

Okla., Bristow—REFINERY—Transcontinental Oil Co., Equity Bldg., Muskogee, A. J. Slagter, supt., will build refinery, incl. treating system, 4 additional 10 x 30 pressure stills, additional rundown and bleacher tanks, etc., here, by day labor.

Ont., Kagawong—MILL—Little Rapids Pulp Co., Kaukauna, Wis., 2 story and basement, stone, concrete and steel pulp mill, on Monitoulin Island, here, to W. E. Ule, Stevens Point, Wis. Archts. est. $200,000.

Ont., Toronto — FACTORY — Dominion Envelope & Carton Co., Ltd., 150 Duchess St., general contract 3 story and basement, rein-con. addition, to Toms Contg. Co., 47 Duggan Ave., reinforcing steel, to Trussed Concrete Steel Co., 34 King St. W. Total est. $150,000.

Buildings—Commercial

PROPOSED WORK

N. H., Concord — DORMITORY — New Hampshire State Hospital having plans prepared by C. R. Whitcher, 814 Elm St., Manchester, 3 story and basement, 40 x 100 ft., rein.-con., brick and steel, plain foundation, hospital grounds. $150,000.

Mass., Boston — APARTMENT — Roosevelt Inc., F. E. Johnson, treas., 209 Washington St., having plans prepared by R. H. Doane, 162 Newbury St., 5 story and basement, 15,000 sq.ft. floor space, rein.-con., brick and steel, plain foundation, Huntington Ave. and Forsyth St., Back Bay Dist. To exceed $150,000.

Mass., Boston—APARTMENT—Eighty-one Beacon St., Inc., c/o J. D. Leland Co., 41 Mt. Vernon St., having plans prepared 7 story and basement, 4,000 sq.ft. floor space, brick and granite, plain foundation. $250,000.

Mass., Boston—STATION—Transit Dept., 1 Beacon St., having sketches made altering subway station, at Scollay Sq. E. R. Springer, 1 Beacon St., engr. $150,000.

Mass., Boston — STORE and OFFICE — A. Carbone, c/o Mowll & Rand, archts., 21 School St., having preliminary plans prepared 6 story and basement, rein.-con. and brick, Province St.

Mass., Braintree — BANK — Braintree Savings Bank, G. H. Sampson, chn., having sketches made by J. B. Beal Sons Co., 185 Devonshire St., Boston, 2 story and basement, brick, Washington and Summer Sts. $150,000.

Mass., Brockton — OFFICE — Brockton Gas Light Co., rejected bids 4 story and basement, brick and limestone plant addition. $150,000. Hutchins & French, 11 Beacon St., Boston, archts. Noted Apr. 2.

Mass., Brookline (Boston P. O.) — APARTMENT—Missell & Sherr, 27 School St., Boston, plans 4 or more story, brick, Park St. $150,000 or more. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.)—BANK and OFFICE—Central Trust Co. plans bank and office building 513 Massachusetts Ave. $750,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.)—ELKS HOME—Cambridge Lodge of Elks, c/o C. R. Greco, archt., 11 Beacon St., Boston, having plans prepared 2 story, brick and stone, Green St., here. To exceed $150,000.

Mass., Cambridge (Boston P. O.)—STATION—Commonwealth of Massachusetts, 1 Beacon St., Boston, and Boston Electric Ry. Co., Park Sq. Bldg., Boston, having sketches made altering tunnel station at Harvard Sq., here. To exceed $150,000. E. R. Springer, 1 Beacon St., Boston, engr.

Mass., Cambridge — STORES and GARAGE—B. Goldfine, 11 Beacon St., plans brick store and garage, 1815 Massachusetts Ave. $150,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.) — STORE and OFFICE—Albiani Lunch Co., 150 High St., Boston, having plans prepared by W. W. Drummey, 80 Boylston St., Boston, 2 story and basement, 76 x 140 ft., brick and stone, plain foundation, 552-560 Massachusetts Ave., here. $170,000.

Mass., Cambridge (Boston P. O.) — STORE and GARAGE—B. Goldfine, 11 Beacon St., Boston, plans 1 and 2 story and basement, rein.-con. and brick, Massachusetts Ave. and Roseland St. $150,000. Engineer and architect not selected. Noted Apr. 16.

Mass., East Boston (Boston P. O.)—HOSPITAL—City of Boston, G. R. White Fund Trustees, City Hall, having preliminary plans prepared by Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., Boston, 2 story and basement, brick and limestone, Paris and Emmons Sts., here. $230,000.

Mass., Lexington—STORE and OFFICE —Owner, c/o Mowll & Rand, archts., 21 School St., Boston, having sketches made 2 story and basement, 60 x 120 ft., brick, Massachusetts Ave. and Waltham St. $150,000.

Mass., Lowell—CLUB—Y. M. C. U., c/o Immaculate Conception Parish, L. J. Tighe pastor, having revised plans prepared by H. L. Rouke, Hildreth Bldg., 3 story and basement, 55 x 110 ft., brick and stone, plain foundation, Brown and Stackpole Sts. $150,000.

Mass, Malden — THEATRE — Ramsdell Bros., Ellenberg & F. Green, Orpheum Theatre, having sketches made by Mowll & Rand, 21 School St., Boston, 1 and 2 story and basement, 130 x 180 ft., rein.-con., brick and steel, plain foundation. Dartmouth and Pleasant Sts. $400,000. Noted Apr. 2.

Mass., Newton (Boston P. O.)—LIBRARY—City, E. C. Childs, mayor, plans 2 story library, Auburndale Sect. $150,000. Engineer and architect not selected.

Mass., Quincy (Boston P. O.) — HOSPITAL — City, C. A. Price, chn. building comn., plans hospital. $150,000. Engineer and architect not selected.

Mass., Roxbury (Boston P. O.)—HOME —Mount Pleasant Home, F. W. Davis, chn. building com., 59 Elm Hill Ave., having preliminary plans prepared by A. H. Bowditch, 44 Bromfield St., Boston, 3 story and basement, brick and limestone, South Huntington Ave., here. To exceed $150,000.

R. I., Providence — HOME — Swedish Workingman's Assn., Pine St., c/o Clark & Howe, archts., Turks Head Bldg., having plans prepared 3 story and basement, rein.-con., and brick, Pine and Chestnut Sts. $150,000.

R. I., Providence — HOSPITAL—Miriam Hospital Corp., c/o Kendall, Taylor & Co., 142 Berkley St., Boston, Mass., having preliminary plans prepared 4 story and basement, brick and stone, plain foundation, Parade St. $200,000.

Conn., Derby — THEATRE — S. Malm, Inc., 220 Bway., New York City, having plans prepared by Starrett & Van Vleck, 8 West 40th St., New York City, 2 story, 65 x 90 ft., and 100 x 120 ft., brick and stone theatre. $225,000.

Conn., New Britain — STORE and OFFICE—P. F. MacDonough, 338 Main St., G. Lewitt, 299 Main St., and W. J. Farley, 36 Allen St., plan 2 story, 48 x 190 ft. store and office building, 283 Main St. $150,000. W. T. Grant Co., 28 West 23rd St., New York City, lessee.

Conn., New Haven — APARTMENT — Irene, John & Edward Cooney, c/o J. A. Julianelle, archt., 59 Asylum St., having preliminary plans prepared, 6 story, 48 x 50 ft., brick and steel, High St. $150,000 or more.

Conn., New Haven—BANK—New Haven Savings Bank, 170 Orange St., having plans prepared by Norton & Townsend, 839 Chapel St., 3 story and basement, brick and steel, Orange and Hope Sts. $150,000 or more.

Conn., New London — HOTEL—Crocker House, B. F. Mahan Estate, F. V. Chapell, trustee, having preliminary plans prepared rebuilding 5 story and basement, brick and steel, State St., recently destroyed by fire. To exceed $150,000. Engineer and architect not selected.

N. Y., Buffalo—TERMINAL—Cleveland —Buffalo Transit Co., lake front and East 9th St., Cleveland, O., made plans constructing terminal, pier, warehouse, waiting rooms, offices, etc., foot of Erie St., here. To exceed $1,000,000. G. A. Bomn, genl. mgr.

N. Y., New York—APARTMENT—S. F. Oppenheim, archt. and engr., 110 East 31st St., preparing plans 5 story, 100 x 100 ft., brick, steel and stone, plain foundation, East 182nd St. $150,000. Owners name withheld.

N. Y., New York—APARTMENT—Phipps Estate, c/o G. F. Pelham, archt. and engr., 200 West 72nd St., having plans prepared 15 story, brick, steel and stone, plain foundation, Madison Ave. and 69th St. $1,000,000.

N. Y., New York—HOME—Amer. Assn. for Blind, 71 East 2nd St., having plans prepared by J. Fisher, 25 ve. A, brick, steel and store, plain foundation. $250,000.

N. Y., New York—NURSES HOME—Mt. Sinai Hospital, 5th Ave. and 100th St., soon takes bids 15 story, brick, steel and stone, plain foundation, 98th St. ne.r Madison Ave. $1,500,000. R. D. Kohn, 56 West 45th St., archt. and engr.

Pa., Pittsburgh — Y. M. C. A., Magee Bldg., having preliminary plans prepared by R. M. Trimble, Ferguson Bldg., 4½ story and basement, 60 x 170 ft., brick and steel, North Ave. and Monterey St. $250,000.

N. C., Durham—THEATRE—City soon takes bids 3 story, 70 x 120 ft., terra cotta and stone theatre. Milburn-Heister Co., Durham, archts.

Fla., Ft. Lauderdale—OFFICE—Broward Co. Realty Bd., H. C. Jelks, chn., having plans prepared by J. M. Peterman, Ft. Lauderdale, 10 story, 50 x 130 ft. office building, North Andrews Ave. $250,000.

Fla., Hollywood—HOTEL—J. W. Young & Associates having plans prepared by E. O. Hunter of Rubuch & Hunter, 430 Amer. Central Life Bldg., Indianapolis, Ind., for hotel.

Fla., Lakeland—OFFICE—E. J. Sparks, Lakeland and Atlanta, Ga., having plans prepared by R. A. Benjamin, Lakeland, "The Marble Arcade," 10 story, 50 x 122 ft., Lemon and Kentucky Sts. $400,000.

Fla., St. Petersburg—HOTEL—N. Dennis, plans 8 story, 50 x 100 ft. hotel, 3268 1st Ave. N. $250,000.

Miss., Biloxi — HOTEL — C. E. Matthes, archt., Biloxi, preparing preliminary plans 3 story, 72 room, etc., steel and stucco addition to Hotel Buena Vista, $150,000 plus.

La., New Orleans — WAREHOUSE — R. DeBuys, archt., Hibernia Bank Bldg., soon takes bids 2 story, 80 x 80 ft. concrete, brick and frame addition to warehouse, with 80 x 80 ft. landing platform, North Rendon and Gravier Sts. for Cumberland Telephone & Telegraph Co.

La., Shreveport—APARTMENT HOTEL —L. P. Florida, E. K. Ligrett, et al, Memphis, Tenn., having plans prepared by Wittenberg, Delaney & Watts, Southern Trust Bldg., Little Rock, Ark., 7 story and basement, rein.-con., brick and terra cotta, Elizabeth St. and Margaret Pl., here. $550,000.

Tenn., Jackson—COURT HOUSE—Madison Co. Court plans court house. State authorized an issue of $250,000 bonds.

O., Akron—AUDITORIUM and THEATRE—Summit Co., c/o J. B. Hannan, pres., 207 Pythian Temple Bldg., having plans prepared by Ridley & Glazier, Federal Oil & Gas Bldg., 3 story, 140 x 350 ft. brick, steel and concrete auditorium and theatre building. $400,000. Noted Jan. 29.

O., Cleveland — APARTMENT — J. Narosny, 13,407 3rd Ave., having plans prepared by L. R. Walker, 1900 Euclid Bldg., 4 story and basement, 80 x 164 ft., brick, 2058 East 83rd St. $250,000.

O., Cleveland—HOTEL—Syndicate, c/o O. D. Eshelman, 930 Williamson Bldg., having preliminary plans prepared by G. A. Ebeling, Hunkin-Conkey Bldg., 10 story, brick, steel and concrete, 3844 Euclid Ave. $750,000.

O., Lima—BANK—Old Natl. Bank, Main and High Sts., plans 12 story, 50 x 87 ft., brick, steel and concrete near site of present structure. $350,000.

O., Youngstown — THEATRE — Warner Bros., 5842 Sunset St., Los Angeles, Calif., plans theatre, Federal St., here. $1,000,000.

Buildings—Commercial (Continued)

Ind., Ft. Wayne—OFFICE—H. Baum, 135 East Columbia St., having plans prepared by A. M. Strauss, Tri-State Bank, 4 story and basement, 20 x 60 x 150 ft., rein.-con. and brick, Wayne St. $200,000.

Ind., Indianapolis — HOTEL — Reily Realty Co., Fletcher Savings & Trust Bldg., having plans prepared by R. F. Daggett, Continental Bank Bldg., 6 story and basement, brick and steel, North Capitol St. $300,000.

Ind., Indianapolis — OFFICE — T. A. Maynohan, Ambassador Apartments, having plans prepared by A. Fleck, Columbia Securities Bldg., 8 story and basement, 67 x 165 ft., brick and steel, Delaware St. $500,000.

Mich., Detroit—HOSPITAL—Pub. Welfare Comn., Clinton and Raynor Sts., having revised plans prepared by Carey & Esselstyn, 2539 Woodward Ave., 9 story, rein.-con., brick, steel and stone, plain foundation, Clinton St. $900,000.

Mich., Iron Mountain — THEATRE, STORES and HOTEL — Iron Mountain Hotel Co., c/o E. B. Bergendahl & Co., archts., 155 North Clark St., Chicago, Ill., having plans prepared 6 story and basement, 125 x 128 ft., concrete and brick, foundation. $650,000.

Ill., Aurora — HOSPITAL — Mercyville Sanitarium, Sister Mary Cornelia, St. Marys Hospital, having plans prepared by G. Morris, Elgin, 2 story and basement, 184 x 225 ft., rein.-con., brick and stone, plain foundation. $250,000.

Ill., Champaign—APARTMENT—R. E. Little having plans prepared by G. A. Ramey, Champaign, 3 story and basement, 42 x 114 ft., rein.-con., brick and stone, plain foundation. $175,000. F. L. Randall, 160 North LaSalle St., Chicago, engr.

Ill., Chicago — APARTMENT — I. Perlman, 6659 Blackstone Ave., plans 3 story and basement, 70 x 125 ft., rein.-con., brick, stone and terra cotta, plain foundation, 6400 Kedzie St. $250,000. Engineer and architect not selected.

Ill., Chicago—APARTMENT—C. Ringer, 7251 Crandon Ave., plans 3 story and basement, 147 x 167 ft. apartment building, 7900 Saginaw St. $300,000. Engineer and architect not selected.

Ill., Chicago—APARTMENT—D. Schetnitz, c/o F. H. Bartlett Co., 69 West Washington St., plans 7 story and basement, 131 x 178 ft. apartment, 61 East Goethe St. $1,000,000. Engineer and architect not selected.

Ill., Chicago—APARTMENTS—Plotke & Grosby, 111 West Washington St., having plans prepared by A. Teisen, 4804 North Kedzie Ave., 3 story and basement, 125 x 132 ft. apartment, 1900 Lawrence Ave., $220,000; and three 3 story and basement apartments, 100 x 125 ft. each, one on Lawrence St. west of Lincoln Ave., one 4800 Lincoln Ave. and other 4815 Lincoln Ave., $150,000 each, all rein.-con., brick and stone, plain foundations.

Ill., Chicago—OFFICE—P. Lesman, 14 South Wells St., having sketches made by A. L. Alschuler, 28 East Jackson Blvd., 3 story and basement, 75 x 125 ft., Lincoln St. $200,000.

Ill., Peoria—APARTMENT—Gray Constr. Co., 116 Fayette St., having plans prepared by B. F. Huisebus, 1232 Jefferson Bldg., 3 story and basement, 92 x 162 ft., brick and stone, plain foundation, 916-20 Hamilton Blvd. $250,000.

Wis., Appleton — THEATRE and BUSINESS — W. Schroeder, 86 Michigan St., Milwaukee, plans brick, terra cotta and concrete theatre, plain foundation, here. $350,000. Engineer and architect not selected.

Wis., Beloit — EXCHANGE — Wisconsin Telephone Co., 418 Bway., Milwaukee, plans 3 story and basement, brick and concrete addition, plain foundation, Grand Ave., here. $150,000. Engineer and architect not selected.

Wis., Madison — GARAGE — Madison Buick Co., 16 East Doty St., plans rebuilding 2 story, 100 x 200 ft., rein.-con., brick and steel, plain foundation, Wilson St., recently destroyed by fire. $150,000. Engineer and architect not selected.

Wis., Madison—GARAGE—J. Peterson, 102 South Orchard St., having plans prepared 2 story and basement, 66 x 132 ft., rein.-con., brick and steel garage and repair shop, Fairchild St. $200,000. Private plans.

Wis., Madison — THEATRE — Beecroft Building Co., W. G. Beecroft, 6 West Mifflin St., pres., plans 1 story, rein.-con., brick and steel theatre, plain foundation. $750,000. Engineer and architect not selected.

Wis., Milwaukee—APARTMENT—G. W. and O. Adams, 114 Grand Ave., having plans prepared by R. Razall, Cass and Martin Sts., 3 story and basement, brick and concrete, plain foundation, Prospect Ave. $275,000.

Wis., Milwaukee—APARTMENT—I. H. Benesch Co., 513 Van Buren St., having plans prepared by C. J. Keller & Son, 432 Bway., 3 story, brick and tile, plain foundation, 15th St. $150,000.

Ia., Ames—HOTEL—P. Sheldon, Story County Trust & Savings Bank, plans 4 story and basement, 100 x 103 ft., rein.-con., steel and stone addition. $150,000. Engineer and architect not selected.

Minn., Minneapolis — STORE — National Tea Co., O. H. Landin, mgr. 1224 Quincy St., having plans prepared by Newstrom-Lindquist Co., 810 Lumber Exch., 2 story and basement, brick and timber, 3rd Ave. S and 29th St. $150,000.

Kan., Leavenworth—HOSPITAL—Cushing Hospital Assn. having preliminary plans prepared by Keene & Simpson, 1005 Land Bank Bldg., Kansas City, Mo., 50 bed hospital. $200,000.

Mo., Kansas City — APARTMENT HOTEL—C. O. Jones, 402 Continental Bldg., having plans prepared by P. T. Drotts, 300 Reliance Bldg., two 7 story and basement, 61 x 70 ft., brick and terra cotta, one on Armour and Campbell Sts., and other adjoining Armour and Campbell corner. $150,000 each.

Mo., Kansas City—APARTMENT—J. H. Wood, 335 North Van Brunt Blvd., having plans prepared by George Fuller Green, 429 Rialto Bldg., 5 story and basement, 50 x 125 ft., rein.-con., plain foundation, 1509 Wyandotte St. $250,000.

Mo., Kansas City — APARTMENT — Kansas City Building Co., 319 Ridge Bldg., having plans prepared by W. A. Beseke, 1704 Baltimore Ave., three 4 story and basement each 50 x 110 ft., rein.-con., plain foundations, one at 909 East 30th St., one at 913 East 30th St., and other 30th and Campbell Sts. $170,000 each.

Mo., Kansas City—HOTELS—G. H. McCanles, Victor Bldg., having plans prepared by E. C. Faris, 3840 Main St., 6 story and basement, 42 x 158 ft. hotel, 39th and Baltimore Sts., $440,000; 4 story and basement, 42 x 158 ft. apartment hotel, 112 West 39th St., $320,000; and 4 story and basement, 42 x 158 ft. apartment hotel, 106 West 39th St., $320,000, all rein.-con., plain foundations.

Mo., Kansas City — HOTEL — Jewell Realty Co., Chambers Bldg., having revised plans prepared by H. A. Drake, 315 Reliance Bldg., 10 story and 2 basements, 52 x 130 ft., concrete, brick, plain foundation, 13th and Wyandotte Sts. $400,000.

Mo., St. Paul—THEATRE and STORE — A. A. Gralnick, 5750 Pershing Ave., having preliminary plans prepared 3 story, 106 x 123 ft., rein.-con., brick and stone, Jefferson and Market Sts.

Tex., Dallas — APARTMENT — E. E. Parkhurst, Adolphus Hotel and 207 Southwestern Life Bldg., having plans prepared by Young & Young, 207 Southwestern Life Bldg., 10 story and basement, 40 x 350 ft., L shaped, brick, stone and rein.-con., between Maple Ave. and Fairmount St. $1,250,000.

Tex., Dallas — APARTMENT — R. A. Nelson Co., 805 South Western Life Bldg., having plans prepared by H. C. Knight & A. E. Thomas, 330 Wilson Bldg., 14 story and basement, 80 x 170 ft. with light court in front, 45 x 100 ft., rein.-con., brick and stone, Oak Lawn Ave. and Hall St. $1,500,000.

Tex., El Paso — BUSINESS — Electric Railway Co. having plans prepared by Lehnmann & Wuehrmann, Two Republics Bldg., and soon takes bids 3 story and basement, brick and concrete, plain foundation. $200,000.

Tex., Laredo — OFFICE — A. M. Bruni, takes bids after May 15, 6 story and basement, rein.-con., brick and stone, plain foundation, Lincoln-Flores. $150,000. Private plans. Noted Jan. 15.

Tex., San Antonio—APARTMENT—J. L. Hart, Gunter Bldg., T. E. Altgelt, Frost Natl. Bank Bldg., and A. Seeligson, 115 East Ashby St., et al., purchased site and plan 4 or more stories and part basement, rein.-con., brick and stone, plain foundation, Lexington and Oakland Sts. $150,000.

Okla., Clinton—HOTEL—J. C. Iback, Ponca City, having preliminary plans prepared by C. Woodruff, Reynolds Bldg., Ft. Worth, Tex., 4 story and basement, 50 x 150 ft., rein.-con. and brick, plain foundation, Modelle St., here. $160,000. B. M. Hart, City Hall, engr.

Okla., Eufaula — COURT HOUSE — McIntosh Co. having preliminary plans prepared by Tonini & Bramlett, Terminal Bldg., Oklahoma City, 2 story and basement, 80 x 145 ft., rein.-con. and brick, plain foundation, Main St. $160,000.

Okla., Oklahoma City—OFFICE—Oklahoma Savings & Loan Assn., Amer. Natl. Bank Bldg., having preliminary plans prepared by Hawk & Parr, 720 North Bway., 8 story and basement, rein.-con., brick, stone and steel office building. $300,000.

Okla., Ponca City—HOSPITAL—Chamber of Commerce, J. S. Alcorn, chn., having plans prepared by Schmidt, Garden & Martin, 104 South Michigan Ave., Chicago, for hospital building. $250,000.

Colo., Denver—BANK and OFFICE—Midland Savings & Loan Co., 17th and California Sts., having plans prepared by Fisher & Fisher, U. S. Natl. Bank Bldg., 10 story, 50 x 125 ft. bank and office building, 17th and Glenarm Sts. $750,000.

Colo., Denver—CLUB—Denver Athletic Club, 1325 Glenarm St., had plans prepared by R. Weiger, Chamber of Commerce Bldg., remodeling and constructing 5 story, 57 x 100 ft., brick, stone and steel addition, Glenarm St. Between 13th and 14th Sts., $300,000. Noted July 31.

Ore., Portland — STORE — A. E. Doyle, archt., Worcester Bldg., preparing plans and takes bids about May 9, 3 story, 100 x 100 ft., concrete and steel top addition, 6th and Alder Sts., for Meier & Frank Co., 6th and Alder Sts. $500,000. T. Ronneberg, Crocker Bldg., San Francisco, Calif., engr.

Calif., Los Angeles—CLUB—Screen Arts Club, 6107 Franklin Ave., plans Class A club-house, North Commonwealth Ave. To exceed $300,000.

Calif., Los Angeles — STORE and OFFICE — Interests represented by J. A. Walt, Lane-Mortgage Bldg., plans approximately 6 story and basement, 185 x 217 ft., Class A, Loomis and 6th Sts. To exceed $350,000.

Calif., Modesto—STORE and OFFICE—Hubbert & Weiland Bros., archts., Russ Bldg., San Francisco, prepared plans 3 story and basement, brick 11th and J Sts. $155,000. Owner's name withheld.

Calif., Oakland — APARTMENT and STORE — B. G. McDougall, archt., 393 Sacramento St., San Francisco, preparing plans 2 story, timber and stucco apartment and store in Borax Smith Tract. $150,000. Owner's name withheld.

Calif., Richmond — HOTEL — J. W. Plachek, archt., Mercantile Bank Bldg., Berkeley, preparing preliminary plans Class "A" hotel, Nevin and 10th Sts. $150,000 or more. Owners name withheld.

Calif., San Diego—CLUB—San Diego Athletic Club having preliminary plans prepared by Walker & Eisen, Great Republic Life Bldg., Los Angeles, 8 story and basement, rein.-con., A and 6th Sts. To exceed $350,000.

Calif., San Francisco — GARAGE — H. Lesser, et al, 58 2nd St., having plans prepared by Ashley & Evers, 58 Sutter St., 4 story and basement, 4th St. near Market St. $250,000.

Calif., Stockton—OFFICE and STORE—Group of San Francisco capitalists had preliminary plans prepared by F. T. Mayo, 21 South San Joaquin St., approximately 12 story and basement, brick and steel or rein.-con. office and store building, here. $650,000.

Ont., Haileybury—HOTEL—G. A. Bagshaw soon takes bids new hotel, Ferguson Ave. $150,000.

Ont., Kingston — HOSPITAL — Kingston General Hospital plans alterations and additions to hospital. $175,000. Engineer and architect not selected.

Ont., Toronto — CLUBHOUSE — University Club of Toronto, 82 King St. W., plans rein.-con., brick and steel, plain foundation. $175,000. Engineer and architect not selected.

Ont., Walkerville—WAREHOUSE—Berry Bros., Inc., plans rebuilding concrete and brick warehouse, recently destroyed by fire. $150,000. F. L. Colby, pres. Private plans.

BIDS DESIRED

Mass., Boston—CLUB HOUSE—F. H. Lahey et al., c/o E. M. Parsons & Co., archts., 1 Beacon St., taking bids 3 story and basement, brick and stone, plain foundation, Commonwealth Ave. and Sherborn St. $150,000.

Mass., Brookline (Boston P. O.) — APARTMENT—A. W. Blake, c/o Richardson, Barrett & Richardson, archts., 8 Beacon St., Boston, taking bids 4 story and

Buildings—Commercial (Continued)

basement, brick and stone, plain foundation, Cypress St. $150,000.

Conn., East Hartford (Hartford P. O.)—FACTORY, OFFICE and STORAGE—Williams & Carleton, 206 State St., taking bids 3 story and basement, 50 x 150 ft., brick and steel, plain foundation, East Hartford Blvd. $150,000. Greenwood & Noerr, 847 Main St., Hartford, engrs. and archts.

Conn., Hartford — TEMPLE — Labor Assn., c/o J. F. Rutledge, archt., 70 Harold St., taking bids 3 story, 50 x 200 ft., brick and steel, Park St. $200,000.

N. Y., Thiells — ADMINISTRATION, ETC.—May 14, by Supt. Purchase, Room 106, Capitol, Albany, constructing administration building, officers cottages, A and B, dining room and kitchen, Letchworth Village, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. Apr. 23.

N. J., Asyla (mail Grenloch)—HOSPITAL—May 11, by Bd. Freeholders Camden Co., Court House, Camden, 3½ story, 35 x 338 ft. insane building, 2½ story, 34 x 133 ft., and 26 x 62 ft. infirmary, 1 story, 30 x 40 ft. kitchen, three 6 x 50 ft. connecting corridors, 2½ story and basement, 35 x 136 ft. isolation building, and 2½ story and basement, 34 x 151 ft. nurses' home, all rein.-con. and brick. W. W. Sharpley, 225 Washington Sq., Phila., Pa., archt. Noted Feb. 5.

N. J., Clinton—COTTAGES—May 1, by Bd. Institutions and Agencies, Trenton, 2 story, maternity cottage, and 2 cottages for inmates at State Reformatory for Women, here. $150,000. A. B. Mills, State Office Bldg., Trenton, archt.

Pa., Phila.—FIRE HEADQUARTERS—Apr. 24, Dept. Pub. Safety, City Hall, 3 story and basement, 108 x 138 ft., rein.-con., brick and steel, plain foundation, 1328 Race St. $275,000. J. Molitor, Bankers Trust Bldg., city archt. Noted Apr. 26.

Pa., Phila.—HOTEL—W. E. Adams, c/o Stuckert Co., archts., Crozer Bldg., will build 12 story and basement, 33 x 130 ft., rein.-con. and granite, plain foundation, 219 South Broad St. $400,000. Work will be done by separate contracts.

Pa., Scranton—GARAGE—Apr. 27, by L. M. Davis, archt., 616 Spruce St., 4 story and basement, 120 x 160 ft., rein.-con. and brick, plain foundation, Lackawanna Ave., for P. J. Casey, Hotel Casey. $225,000.

Pa., York—Apr. 24, by Y. M. C. A., P. A. Elesessor, chn. Building Com., 5 story and basement, concrete and brick, plain foundation. $175,000. E. Leber, Hay Bldg., archt. Thomas. Martin & Kirkpatrick, Cunard Bldg., Phila., associated archts.

Md., Baltimore—HOSPITAL—Apr. 27, by J. E. Sperry, archt., Calvert Bldg., 7 story and basement, 155 x 176 ft., brick and steel, plain foundation, Monument and Rutland Aves., for Hebrew Hospital & Asylum Assn., Monument and Rutland Aves. $800,000. H. F. Doeleman, 507 North Charles St., engr.

N. C., Hickory — HOTEL — May 6, by Hickory Hotel Co., 8 story and basement, fireproof hotel. $300,000.

O., Columbus — OFFICE — Apr. 29, by Snyder, Babbitt & Matthews, archts., 16 East Broad St., 12 story and basement, 75 x 100 ft., rein.-con. and brick addition, 21 South High St., for Huntington Natl. Bank. $400,000.

O., Dayton—OFFICE—May 5, by Schenk & Williams, archts., Mutual Home Bldg., 12 story, 60 x 100 ft., rein.-con. and brick top addition, Main St., for 3rd Natl. Bank, Main St. $1,000,000.

Ill., Chicago—APARTMENT—Ersenteen & Trushinsky, 3541 West 12th Pl., taking bids 3 story and basement, 85 x 95 ft., rein.-con., brick and stone, plain foundation, 1217 Independence Blvd. $200,000. Dubin & Eisenberg, 14 West Washington St., archts.

Ill., Chicago—APARTMENT—J. Jensen, archt., 1105 Lawrence Ave., taking bids 3 story and basement, 112 x 125 ft., rein.-con., brick and stone, plain foundation, 4000 Melrose St., for J. L. Guyon, 124 North Crawford Ave. $150,000.

Ill., Chicago — APARTMENT — C. F. Henry, 7455 Greenview Ave., taking bids 5 story and basement, 116 x 120 ft., rein.-con., brick, steel and stone, caisson foundation, at Lake on Ainslie St. $650,000. R. France, 155 North Clark St., archt.

Ill., Chicago—APARTMENT—Silverman & Smith, 74 West Washington St., taking bids 3 story and basement, 106 x 132 ft., rein.-con., brick and stone, plain foundation, 7900 Aberdeen St. $200,000. Dubin & Eisenberg, 14 West Washington St., archts.

Ill., Peoria—HOSPITAL—Methodist Hospital of Central Illinois, 221 North Glen Oak St., taking bids 6 story and basement, 80 x 130 ft., rein.-con., brick and stone hospital $350,000. B. L. Hulsebus, 1232 Jefferson Bldg., archt. Noted Jan. 8.

Ill., Rockford — BANK and OFFICE — Peterson & Johnson, archts., Swedish-Amer. Bank Bldg., taking bids 8 story and basement, 46 x 116 ft., rein.-con., brick, steel and stone, plain foundation, for Manufacturers Natl. Bank, 327 East State St. $500,000. Structural steel for above awarded to J. C. Theilacker, 5924 Washington Blvd., Milwaukee, Wis.

Wis., Milwaukee—HOTEL—M. Tullgren & Sons, archts., 425 East Water St., taking bids 8 story and basement, 120 x 124 ft., brick and concrete addition, plain foundation, Juneau Ave., for Hotel Astor Co., Juneau and Marshall St. $750,000. Noted Apr. 2.

Wis., Milwaukee—STORAGE—Apr. 27, by G. S. Kingsley, archt., 109 North Dearborn St., Chicago, Ill., 6 story and basement, 119 x 150 x 223 ft., brick and concrete, plain foundation, Prospect Ave., for Coakley Bros., 41 2nd St. $225,000.

Mo., St. Louis—THEATRE and OFFICE—Apr. 27, by Skouras Bros. Enterprises, c/o Grand Central Bldg., 22 story and basement, 127 x 165 ft., rein.-con., brick, stone, steel and terra cotta, 7th and Locust Sts. $2,300,000. C. W. and G. L. Rapp, 190 North State St., Chicago, Ill., archts.

Okla., Walters—COURT HOUSE—June 2, by R. E. Montgomery, clk. Cotton Co., 2 story and basement, 86 x 146 ft., concrete and brick, plain foundation. $160,000. Tonini & Bramlett, Terminal Bldg., Oklahoma City, engrs. Noted Feb. 19.

Calif., Los Angeles—HOTEL—Ritz Hotel taking bids 4 story, 50 x 180 ft., rein.-con. addition, 817-821 South Flower St. $175,000. L. A. Smith, 3rd St. and Western Ave., archt.

BIDS RECEIVED

Mass., Boston — HOSPITAL — Hospital Dept., J. Manning, pres., 9 story and basement, brick, limestone and granite, plain foundation, Albany and East Concord Sts., from J. Bowen Co., 184 Dudley St., Roxbury, $584,187. Noted Mar. 26.

N. Y., Long Island City — STATION HOUSE and GARAGE—Police Dept., Apr. 14, constructing 116th Precinct Police Station and garage, Catalpa Ave. and Chaffee St., from Eastern Constr. Co., 110 West 40th St., New York City, $140,140.

CONTRACTS AWARDED

Me., Rumford—HOSPITAL—Community Hospital Assn., 2 story and basement, 35 x 156 ft., brick and stone hospital, to F. A. Rumery, 537 Congress St., Portland. Archts. est. $150,000. Noted Apr. 9.

Mass., Attleboro—BANK and OFFICE—Attleboro Savings & Loan Assn., 3 story and basement, brick, stone and steel additioin, to W. Coulson, 1 Hayward St., Cambridge. Archts. est. $150,000.

Mass., Boston — BANK and OFFICE — National City Co., 10 State St., altering 5 story and basement, rein.-con. and stone, 30 Congress St., to G. W. Smith, 67 Hewlett St., Rosindale. Archts. est. $150,000.

Mass., Boston—STORE and OFFICE—A. F. Goodman, c/o Little & Russell, archts., 45 Bromfield St., 6 story and basement, brick and stone, 154-156 Boylston St., to W. H. Whitcomb Constr. Co., 6 Beacon St. Archts. est. $150,000. Noted Mar. 5.

Mass., Boston—STORE and OFFICE—Owner, c/o Strickland, Blodgett & Law, archts., 26 Pemberton Sq., altering and constructing 5 story and basement, brick and stone addition, 20-24 Newbury St., to Chase & Gilbert, 220 Devonshire St. Archts. est. $150,000. Noted Mar. 5.

Mass., Boston—STUDIO—M. A. Cohen, 20 Pemberton Sq., 4 story and basement, brick and stone, plain foundation, 80 Charles St., to P. H. Rose, 33 Crest Ave., Winthrop. Archts. est. $150,000.

Mass., Cambridge (Boston P. O.) — APARTMENT—Brison & Barish, 14 Lorne St., Dorchester, will build 5 story and basement, 16,000 ft. floor space, steel, stone and brick, plain foundation, Massachusetts Ave., by day labor. $450,000. Silverman, Brown & Heenan, 15 Cornhill St., Boston, archts.

Mass., Forest Hills (Boston P. O.) — HOSPITAL—Forest Hills Hospital, 29 Morton St., 4 story, 45 x 150 ft., brick, Morton St., to N. Hurwitz, 294 Washington St., Boston. Archts. est. $175,000. Noted Apr. 9.

Mass., Springfield — STORE and GARAGE—Locust Hill Associates, c/o H. J. Perkins, 435 Dwight St., 2 story, 115 x 125 ft., rein.-con., brick, steel and cast stone, plain foundation, Willow and Southbridge Sts., to F. T. Lay & Co., Inc., 230 Boylston St., Boston. Archts. est. $150,000.

Conn., New Britain — STORE and OFFICE—L. Rafhael, 77 Grove Hill St., 3 story and basement, 85 x 90 ft., rein.-con., brick and stone, plain foundation, to Hayes Constr. Co., 9 Court St., New Britain. Archts. est. $150,000. Noted Mar. 12.

N. Y., Brooklyn—BANK—Brooklyn Trust Co., 177 Montague St., 4 story, brick, steel and stone, plain foundation, Ocean Ave., to W. Kidde Co., 140 Cedar St., New York City. Archts. est. $300,000. Noted Mar. 5.

N. Y., New York—LOFT and STORE—Thirty-Five West 47th St. Corp., c/o W. M. Mason, archt. and engr., 25 West 43rd St., 20 story, 68 x 100 ft., brick, steel and stone, plain foundation, 35 West 47th St., to H. D. Best Co., 949 Bway.

N. J., Vineland—INSTITUTION—State Bd. Institution & Agencies, 135 West Hanover St., Trenton, constructing group of buildings, here, for Vineland Home for Feeble Minded, to Wills Bill Co., 1708 Sansom St., Phila., Pa., $237,700. Noted Apr. 2.

Md., Baltimore—NURSES' HOME—J. E. Sperry, archt., Calvert Bldg., 10 story, 107 x 142 ft., brick and steel, plain foundation, Bway. between Monument and McElderry Sts., to Consolidated Eng. Co., 20 East Franklin St., for Johns Hopkins Hospital, Bway. and Monument Sts. $650,000. Noted Mar. 5.

Ill., Chicago — HOTEL — E. J. Stevens, pres. Hotel LaSalle Co., LaSalle St. and West Madison Ave., Hotel Stevens, on Michigan Blvd., to George A. Fuller Co., 949 Bway., New York City, about $18,000,000. Noted Mar. 13.

Ill., Rockford—BANK and OFFICE—See "Bids Desired."

Wis., Madison — GARAGE, etc. — Fox Motor Sales Co., 105 East Doty St., will build 2 story, 122 x 133 ft., brick, rein.-con. and steel gar.ge and repair shop, plain foundation, Broom St., by day labor. $150,000. A. L. Seidenschwartz, 290 3rd St., Milwaukee, archt. Noted Feb. 19.

Minn., Minneapolis — LODGE — Cataract Lodge A. F. & A. M., A. Jensen, secy. Building Comn., 4907 Colfax Ave., S., general contract 5 story and basement, 98 x 155 ft., rein.-con. and terra cotta, Central Ave. and 4th St. S. E., to R. Billingsley & Co., 742 Plymouth Bldg. archts. total est. $275,000. Noted Mar. 26.

Kan., Newton—BANK—Railroad Building & Loan Assn., 2 story and basement, 50 x 150 ft., rein.-con. and brick, to Ellis & Singleton, Brosins Bldg., Wichita. Archts. est. $150,000.

Mo., Kansas City — BANK — First Natl. Bank, remodeling and constructing concrete, brick and steel addition, to Swenson Bros., Schubert Bldg. Archts. est. $450,000.

Mo., Kansas City — HOTEL — Kelley Realty Co., Lathrop Bldg., will build 7 story and basement, 80 x 175 ft., rein.-con. and stucco hotel, by day labor. To exceed $150,000. E. C. Farris, 3836 Main St., archt.

Mo., St. Louis—APARTMENT, etc.—J. F. McDermott, Central Natl. Bank Bldg., 3 story and basement, 80 x 190 ft., rein.-con., brick and stone, Hodiamont St. at Gambleton Pl., to A. DeBenedetty, Lucas and Hunt Rd., Wellston.

Mo., St. Louis—APARTMENT, STORE and OFFICE—W. J. Heckman, 801 Chestnut St., 3 story and basement, 41 x 116 ft. and 32 x 95 ft. brick, concrete and stone, West Florissant St. and Pope Ave., to V. A. Chinberg, 808 Chestnut St.

Wash., Seattle—APARTMENT—Colonial Investment Co. will build 5 story and basement, 100 x 128 ft., 1018 Seneca St., by day labor, under supervision of H. S. Hudson, archt., Amer. Bank Bldg. $350,000.

Ore., Portland — APARTMENT — Lotus Holding Co., Lotus Apartments, 3 story, 100 x 100 ft., rein.-con. and timber, plain foundation, 22nd and Irving Sts., to C. O. Westland, Portland, $200,000.

Calif., Los Angeles — GARAGE — Pub. Serv. Comn., general contract altering and constructing 4 story, 20 x 60 ft., rein.-con. annex, 220 South Hill St., to North Pacific Co., 723 Detwiler Bldg., $192,593. Noted Apr. 9.

Calif., Oakland — APARTMENT — J. Iverson, 1915 Bush St., will build 2 story and basement, 100 x 100 ft., rein.-con. apartment with separate garage, 20th and Bush Sts., by day labor.

Calif., Pasadena — APARTMENT — Stanley Apartments of Pasadena, c/o M. Hunt, archt., Hibernian Bldg., Los Angeles, 3 story and basement, brick, South Los Robles Ave., to J. H. Woodworth & Son, 200 East Colorado St., $155,450.

Buildings—Commercial (Continued)

Calif., San Francisco — APARTMENT—Acme Investment Co., Humboldt Bank Bldg., 6 story and basement, steel and concrete, Gough and Clay Sts., to Monson Bros., 251 Kearny St., $165,350.

Ont., Toronto—EXCHANGE—Bell Telephone Co., Ltd., 76 Adelaide St. W., 3 story and basement, 60 x 150 ft. exchange, general contract to Anglin-Norcross Ltd., Temple Bldg. Archts. total est. $160,000.

Buildings—Educational, Religious

PROPOSED WORK

Mass., Belmont (Boston P. O.)—HIGH SCHOOL — School Building Com. plans Junior High School. $200,000. Engineer and architect not selected.

Mass., Boston—SCHOOLS—Schoolhouse Dept., T. P. Glynn, chn., plans five 2 story, brick and stone schools, one in Francis Parkman Dist., Forest Hills, $150,000; Phinas Bates School, Longfellow Dist. in Rosindale, $160,000; practical arts high school in Roxbury, $417,000; one in Prince Dist., Back Bay, $267,000; and high school in Hyde Park Dist., $1,560,000. Engineer and architect not selected.

Mass., Haverhill—SCHOOL—City Council plans brick addition to J. C. Tilton School, Grove St. $200,000. Engineer and architect not selected.

Mass., Ludlow—HIGH SCHOOL—School Building Comn. having preliminary plans prepared by M. W. Maloney, 23 Pearl St., Springfield, 2 story and basement, brick high school. $150,000 or more.

Mass., Rockland — SCHOOL — School Com., A. Toothaker, supt. Schools, rejected bids 2 story and basement, rein.-con. and brick school. $150,000. Brainard & Leeds, 89 Franklin St., Boston, archts. Project in abeyance for 1 year. Noted Jan. 29.

Mass., South Boston (Boston P. O.) — HIGH SCHOOL—City of Boston, Schoolhouse Dept., T. P. Glynn, chn., plans 2 story, brick and limestone addition, here. $400,000. Engineer and architect not selected.

R. I., Providence—SCHOOL—Brown University, Prospect St., having plans prepared by Wells Bosworth, 527 5th Ave., New York City, 2 story and basement, brick school for modern languages, Manning St. $175,000.

R. I., Providence—HIGH SCHOOL—Pub. Building Dept., W. E. Hartwell, comr., plans Junior High School, 2 story, Elmgrove and Taber Aves. To exceed $150,000. Engineer and architect not selected.

R. I., Providence—SCHOOL—Pub. Buildings Com., City Hall, plans school, Veazie St. $150,000. W. E. Hartwell in charge. Engineer and architect not selected.

N. J., Princeton — CHAPEL — Princeton University having preliminary plans prepared by Cram & Ferguson, 248 Boylston St., Boston, Mass., chapel. $1,500,000.

N. J., Jersey City—CHURCH—Simpson and Grace Methodist Episcopal Church, c/o C. G. Jones, archt. and engr., 280 Bway., New York City, having plans prepared brick, steel and stone, plain foundation, Blvd. and Tonnelle Ave. $300,000.

N. J., Pitman—SCHOOLS—Bd. Educ. plans two 8 room schools. $220,000. G. L. Swyler, 207 West Holly St., pres. Engineer and architect not selected.

Va., Danville — SCHOOLS, COURT HOUSE, etc. — Election May 5, $950,000 bonds for schools, court house, streets and sewer projects.

La., Gretna—SCHOOLS—Jefferson Parish election June 9; $600,000 bonds, for school improvements.

La., New Orleans — CHURCH — St. Charles Ave. Baptist Church, St. Charles Ave. and Audubon St., soon takes bids constructing new church and remodeling parsonage. $150,000. Favrot & Livaudais, Hibernia Bank Bldg., archts. Noted Jan. 29.

Tenn., Memphis—MEDICAL SCHOOL—State Legislature appropriated $315,000 for new buildings and improvements to University of Tennessee Medical School.

O., Canton—SCHOOL—Bd. Educ. having plans prepared by Bulford & Co., Columbus, and soon takes bids 2 story addition, Gibbs Ave. N. E. $156,000.

Ind., Wabash — SCHOOL — School Bd., having plans prepared by Kopf & Wooling, K. of P. Bldg., Indianapolis, 2 story and basement, 140 x 220 ft., rein.-con., brick and steel school. $307,000.

Mich., Detroit — CHURCH — Redeemer Presbyterian Church, c/o G. D. Mason & Co., archts., 80 Griswold St., having plans prepared and soon take bids 2 story and basement, 100 x 120 ft., rein.-con., brick and steel, plain foundation, West Grand Blvd. $150,000.

Mich., Kingsford Heights (Iron Mountain P. O.) — SCHOOL — Bd. Educ. Breitung Twp., having plans prepared by F. E. Parmelee, Iron Mountain, 2 story and basement, brick and tile school, plain foundation. $150,000.

Mich., Pontiac—CHURCH—First Congregation Church had plans prepared by W. E. N. Hunter, 1010 Donovan Bldg., Detroit, 2 story and basement, 64 x 218 ft., brick, steel and stone, plain foundation, Mill St. $200,000.

Mich. River Rouge—SCHOOL—Ann Visger School having plans prepared by Van Leyen, Schilling & Keough, 3440 Cass Ave., Detroit, 2 story and basement, 120 x 150 ft., rein.-con., brick and steel addition, plain foundation. $180,000.

Mich., Roseville — CONVENT — Felician Sisters, 4232 St. Aubin Ave., Detroit, having plans prepared by Garstecki & Waler, 403 Hoffman Bldg., Detroit, 3 story and basement, brick, steel, tile and stone, plain foundation, Gratiot Ave. $800,000.

Ill., Chicago—SCHOOLS—Bd. Educ., c/o J. E. Byrnes, bus. mgr., 650 South Clark St., having plans prepared by J. C. Christensen, 650 South Clark St., eight 2 story and basement, 100 x 125 ft., rein.-con., brick and stone schools, plain foundations, 1 on Philips, Yates and 84th Sts., 1 on Le Moyne and Le Claire Sts., 1 on Chappel and 80th Sts., 1 on 114th and Menart Aves., 1 on Keeler and Henderson Sts., 1 on 62nd and Linder Aves., 1 on Byron and New England Sts., and 1 on Garfield and Glenlake Aves. $400,000 each.

Ill., Hinsdale—COLLEGE—Franciscan Fathers of Illincis, c/o M. Strub, pastor, 3140 Meramec Ave., St. Louis, Mo., having plans prepared by O'Meara & Hills, Arcade Bldg., St. Louis, Mo., 3 story and basement, 280 x 350 ft., rein.-con., brick and stone college, plain foundation, here. $850,000.

Ill., Murphysboro — HIGH SCHOOL — Township Bd. Educ., S. McNeel, pres., plans 2 story and basement high school. $150,000. Engineer and architect not selected.

Kan., Lyons—SCHOOL—Defeated $150,000 bonds for schools. Noted Mar. 26.

Neb., Falls City—HIGH SCHOOL—Voted $250,000 bonds, for brick and concrete Senior High School. Engineer and architect not selected. Noted Mar. 19.

Mo., Kansas City — SYNAGOGUE and SUNDAY SCHOOL—Keneseth Israel-Beth Sholom, c/o President, Title Bldg., having plans prepared by Greenebaum, Hardy & Schumacher, 216 Scarritt Bldg., part 3 and part 2 story and basement, 75 x 115 ft. and 61 x 82 ft., rein.-con. and brick, plain foundation, 34th and Paseo Sts. $275,000.

Mo., Springfield — SCHOOL — Central Bible Institute, c/o J. W. Welch, pres., having preliminary plans prepared 2 and 3 story and basement, rein.-con., brick and stone. $200,000.

Ark., Fayetteville—UNIVERSITY—University of Arkansas, J. C. Futrell, pres., plans two 3 story, 200 ft. long addition to University. Noted Nov. 27.

Texas — COLLEGE — Catholic Church, c/o Sisters of Incarnate Word, Brownsville, plans 3 and 4 story and basement, rein.-con., brick and stone, plain foundation, in Texas. Site not selected. $250,000. Private plans.

Tex., San Antonio—SCHOOL and DORMITORY—Westmoreland College, (Methodist Church), 726 West Waco St., having sketches made 3 story and part basement, rein.-con., tile and stone, plain foundation, West side. $250,000. E. R. Sanford, pres. Engineer and architect not selected.

Tex., San Antonio — TEMPLE — Temple Beth El, Travis and Jefferson Sts., M. Stern, chm. Building Co., takes bids about June 1, 2 story and basement, rein.-con., steel and hollow tile, plain foundation, West Ashby and Belknap Sts. $250,000. Seutter & Simons, Moore Bldg., archts. and engrs. Noted Jan. 8.

Okla., Norman — DORMITORY — Sisters of Divine Providence, San Antonio, Tex., having preliminary plans prepared by Monott & Reid, Empire Bldg., Oklahoma City, 3 story and basement, 90 x 155 ft., rein.-con. and brick, plain foundation, Boyd and Chautauqua Sts., here, for University of Oklahoma. $150,000.

Okla., Norman — DORMITORY — State Bd. Affairs, Capitol Bldg., Oklahoma City, plans Girls Dormitory 3 story and basement, 100 x 160 ft., rein.-con, and brick, plain foundation, on campus. $175,000 appropriated. Noted Jan. 8.

Colo., Denver—EDUCATIONAL UNIT—Montview Blvd. Presbyterian Church, Montview Blvd. and Dahlia St., had plans prepared by Hoyt & Hoyt, Colorado Natl. Bank Bldg., 2 story and basement, brick, stone and rein.-con. educational unit, also remodeling church. $175,000.

Calif., Berkeley—LIBRARY—City plans election $300,000 bonds for library annex.

Calif., Los Angeles—LIBRARIES—Plans election $1,000,000 bonds, approximately 25 branch libraries.

Calif., San Francisco — CHURCH — Trinity Methodist Episcopal Church, 16th and Noe Sts., having plans prepared by Wythe, Blaine & Olson, 1800 Telegraph Ave., Oakland, concrete, brick and timber, 16th, Noe and Market Sts. $150,000.

Ont., Merritton—HIGH SCHOOL—Towns of Merritton and Port Dalhousie, Grantham and South Twps., plan 15 to 20 room concrete, brick and steel high school, here. $200,000. Engineer and architect not selected.

Ont., Toronto—CHURCH—Holy Rosary Parish, St. Clair and Kendal Aves., plans 1 story and basement, rein.-con., brick and steel, plain foundation, St. Clair and Kendal Aves. $160,000. Engineer and architect not selected.

Ont., Toronto—CHURCH and SUNDAY SCHOOL—First Ave. Baptist Church, W. T. Graham, rector, 63 Simpson Ave., having plans prepared by J. G. Morton, 61 Dixon Ave., 1 and 2 story and basement, rein.-con., brick and steel, plain foundation. $175,000.

Ont., Toronto — DORMITORY — Victoria College, Queens Park, plans 3 story and basement, rein.-con., brick and steel, plain foundation. $250,000. Engineer and architect not selected.

Ont., Bracebridge — SCHOOL — High School Bd. having plans prepared by Burden & Guinlock, 101 King St. W., Toronto, 2 story and basement, 8 or 10 room, rein.-con., brick and steel, plain foundation. $150,000.

Que., Monk—CHURCH—Roman Catholic Congregation, A. Letourneau, curate, having plans prepared by H. Laberge, Quebec, 55 x 150 ft. church. $150,000.

Que., Quebec — CHURCH — Roman Catholic Congregation, St. Joseph Parish, having plans prepared by H. Laberge, Quebec, 62 x 200 ft. church. $150,000.

BIDS DESIRED

Mass., Harwich—SCHOOL—School Com. taking bids 2 story and basement, 95 x 116 ft., brick and stone high and elementary school, plain foundation. $175,000. W. T. Littlefield, 3 Hamilton Pl., Boston, archts.

Mass., Watertown (Boston P. O.) — SCHOOL—C. M. Abbott, chn. com., taking bids 2 story and basement, brick and stone addition to Coolidge School, plain foundation, Arlington and Mt. Auburn Sts. $200,000. C. P. Hoyt, 8 Beacon St., Boston, archt.

R. I., Cranston—SCHOOL—May 1, by A. M. Colvin, city property comn., 2 story and basement, brick, Pontiac Ave. and Mersick St., Eden Park Sect. To exceed $150,000. W. R. Walker & Son, 49 Waybossett St., Providence, archts.

N. J., Hillside — SCHOOL — May 14, by Bd. Educ., Central Grammar and High School, Coe Ave., additions and alterations to schools in Hillside Twp. C. G. Poggi, 275 Morris Ave., Elizabeth, archt.; adv. E. N.-R. Apr. 23.

Pa., McKeesport—CHURCH, etc.—First Methodist Episcopal Church, Germantown and High Sts., taking bids 1 and 1½ story and basement, 60 x 125 ft., 33 x 110 ft. and 50 x 60 ft. church and sunday school, Cornell and Versailles Sts. $300,000. C. W. Bolton & Son, 1505 Race St., Phila., archts. Noted Dec. 4.

O., South Charleston—HIGH SCHOOL—May 15, by Bd. Educ., F. Barmann, clk., 2 story and basement, rein.-con. and brick high school. $170,000. Walker & Norwick, 1301 American St., Dayton, archts.

Ill., Evanston—FRATERNITY HOUSES—June 10, by Granger, Lowe & Bollenbacher, archts., 332 South LaSalle St., Chicago, fourteen 2 story and basement, 42 x 100 ft., rein.-con., brick and stone fraternity houses, on campus, for Various Fraternities c/o Northwestern University, W. A. Dycke, Evanston, bus. mgr. $75,000 each. Noted Jan. 1.

Mo., Hannibal — HIGH SCHOOL — Apr. 28, by E. F. Mangles, secy. Bd. Educ., Central High School, 2 story and basement, 110 x 195 ft., rein.-con., brick and stone. Former contract rescinded. W. B. Ittner, 911 Locust St., St. Louis, archt. Noted Apr. 12.

Buildings—Educational, Religious (Cont.)

Mo., Tarkio—SCHOOL—Apr. 27, by E. M. Hackett, secy. Bd. Educ., in Directors Room, Farmers Bank, 2 story and part basement, 96 x 186 ft., brick and concrete school. H. I. Goddard, 612 Interstate Bldg., archt. Noted Mar. 2.

Calif., Los Angeles—COLLEGE—University of California taking bids general construction 3 story and basement, 120 x 120 ft., brick and timber college. $150,000. J. and D. B. Parkinson, 420 Title Insurance Bldg., archts.

Ont., Toronto—CHURCH—May 4, by St. Peters Roman Catholic Church, Bathurst St., 1 story and basement, 85 x 160 ft., rein.-con., brick, steel and stone, plain foundation. $175,000. J. P. Hynes, 73 King St. W., archt.

BIDS RECEIVED

Pa., Uniontown—HIGH SCHOOL—E. R. Johnson, archt., Fayette Title & Trust Bldg., Lafayette Junior High School, 2 story and basement, 142 x 254 ft., from Gilpatrick Dawson Co., Empire Bldg., Pittsburgh, for Bd. Educ. $191,300. Noted Mar. 26.

Pa., Uniontown—HIGH SCHOOL—Bd. Educ., Ben Franklin Junior High School, 2 story and basement, 130 x 185 ft., from Gilpatrick Dawson Co., Empire Bldg., Pittsburgh, $219,815. Noted Mar. 26.

Md., Cumberland—HIGH SCHOOL—Bd. Educ. Allegany Co., 3 story, 169 x 200 ft., rein.-con. and brick high school, plain foundation, from King Lumber Co., Charlottesville, Va., $287,700.

O., Bowling Green — LIBRARY and RECITATION—State Building Comn., Columbus, H. L. Johnston, secy., Bowling Green, State Normal School, 1 story and basement, brick, steel and concrete, here, from Yeager & Son, Danville, Ill., $225,000. Noted Mar. 19.

Ia., Des Moines—SCHOOLS—Bd. Educ., G. L. Garton, secy., Mar. 31, general contract McKinley School addition, from J. A. Benson Constr. Co., 416 Valley Natl. Bank Bldg., $47,000; Howe School addition, from W. Knutson & Sons, Flynn Bldg., $60,451; Rice School addition, from Garmer-Stiles Co., 519 West 14th St., $79,875; Hubbell School addition, from Des Moines Constr. Co., Des Moines, $61,465; Cassady School addition, from A. H. Neuman & Co., 519 Hubbell Bldg., $64,291. Noted Mar. 26.

CONTRACTS AWARDED

Vt., Proctor — CHURCH — St. Dominics Parish, 2 story and basement, 70 x 115 ft., rein.-con., brick and marble, plain foundation, to C. G. Noyes, 155 Adams St., Rutland. Archts. est. $150,000. Noted Apr. 2.

Mass., Attleboro — HIGH SCHOOL — School Com., 2 story and basement, brick addition, to J. Munroe, North Attleboro. Archts. est. $200,000. Noted Apr. 9.

Mass., North Attleboro—HIGH SCHOOL —Town, T. M. Morris, supt. Schools, 2 story and basement, brick and stone, Barrows St., to J. A. Munroe, 150 Washington St. Archts. est. $150,000. Noted Dec. 25.

R. I., Central Falls—PARISH HOUSE—Church of Holy Trinity, 3 story and basement, 70 x 75 ft., brick, Adams Ave., to Mahoney & Tucker, 72 Weybosset St., Providence. Archts. est. $150,000.

R. I., Providence — HOME — La Salle Academy, Fountain St., 3 story and basement, 45 x 100 ft., brick, Academy Ave., to E. Turgeon, 86 Weybosset St. Archts. est. $150,000.

Conn., New London — SCHOOL — School Bd., City Hall, 2 story and basement, brick and steel, Mercer St., to Pieretti Bros., Centerbrook. Archts. est. $150,000. Noted Mar. 26.

Conn., Wallingford — CHURCH — Sts. Peter & Paul Parish, S. A. Iciek, pastor, 1 story and basement, 45 x 110 ft., brick and stucco, to P. J. Zima, 8 Akron St., Meriden. Archts. est. $150,000.

N. Y., Buffalo — SCHOOL — Bd. Educ., Genesee Bldg., constructing P. S. 74, Donaldson Rd., to Shane Constr. Co., Herald Bldg., Syracuse, $325,234.

Pa., Phila.—HIGH SCHOOL—Diocese of Phila., c/o D. Cardinal Dougherty, 18th and Race Sts., 3 story and basement, 70 x 345 ft. and 75 x 82 ft., rein.-con. and brick, plain foundation, Towersdale, Hunting Park Ave., Jasker and Pipe Sts., to B. J. McKenna, 1713 Moravian Ave.

Pa., Uniontown—HIGH SCHOOLS—Bd. Educ., general contract Lafayette Junior High School, 2 story and basement, 142 x 254 ft., and Ben Franklin Junior High School, 2 story and basement, 130 x 185 ft., to Gilpatrick Dawson Co., Empire Bldg., Pittsburgh, $191,300 and $219,815 respectively.

O., Bowling Green — LIBRARY and RECITATION—Dept. Pub. Welfare, 3 story and basement, 75 x 150 ft., rein.-con. and brick, to Watts & Suhrbier, 1235 Miami St., Toledo, about $225,000. Noted May 19.

O., Galion—HIGH SCHOOL—Bd. Educ., Old West Hgih School, 2 story and basement, rein.-con. and brick, to A. Shurer, Sandusky, $178,088. Noted Apr. 16.

Ill., Cicero—HIGH SCHOOL—Bd. Educ., Sterling Morton High School, 3 story and basement, concrete, brick and stone, to Fitzgerald Constr. Co., 105 South Monroe St., Chicago. Archts. est. $300,000. Noted Feb. 12.

Ill., Freeport — HIGH SCHOOL — E. Graham, secy. Bd. Educ. Dist. 145, 3 story and basement, 150 x 300 ft., concrete, brick and stone, to Bartleson & Ness, Green Bay, Wis. Archts. est. $450,000. Noted Mar. 19.

Kan., Kansas City — CHURCH — St. Peters Catholic Congregation, 3 story and basement, 60 x 144 ft. church, to F. H. Pavlick, 5601 Harrison St., Kansas City, Mo. Archts. est. $150,000 Noted Apr. 16.

Mo., Carthage—COLLEGE—Ozark Wesleyan College, 3 story and basement, concrete, stone and steel, general contract, to George Fuller Green Constr. Co., 429 Rialto Bldg., Kansas City, $215,679. Noted Mar. 12.

Mo., Kansas City—CHURCH—J. H. Felt & Co., archts., Grand Ave. Temple Bldg., general contract remodeling and constructing 3 story and basement, 100 x 125 ft., stone, plain foundation, Linwood Blvd., for First Baptist Church, to J. T. Neil & Sons, Walnut and 7th Sts., $297,368. Noted Mar. 26.

Calif., San Francisco—SCHOOL—Roman Catholic Archbishop, 1100 Franklin St., 2 story and basement, rein.-con., 18th St., to J. G. Liebert Co., 185 Stevenson St., $165,000.

Ont., Ottawa — COLLEGE — Oblate Fathers, East Ottawa, college, Main St., here, to Gascon & Parent, Montreal. Archts. est. about $150,000.

Ont., Toronto—ART GALLERY—Art Gallery of Toronto, Grange Rd., general contract 1 story, 250 x 300 ft., concrete, brick, steel and stone art gallery addition, to Witchall & Son, 156 St. Helens Ave. Archts. total est. $250,000.

Ont., Toronto — CHURCH — Holy Name Parish, Danforth and Moscow Aves., 1 story and basement, 80 x 150 ft., rein.-con., brick and steel, plain fuondation, Danforth Ave., to Witchall & Son, 156 St. Helens Ave. Archts. est. $150,000.

N. B., St. John—HIGH SCHOOL—Bd. School Trustees, 3 story, 165 x 270 ft., rein.-con., brick, steel and stone, plain foundation, Douglas Ave., to J. A. Grant & Co., Market Sq., $381,830. Archts. est. $350,000. Noted Apr. 2.

Federal Government Work

PROPOSED WORK

N. Y., New York — Water Tank — Spec. 5090—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans 50,000 gal. steel water tank with tower and automatic sprinkler system, here.

Wisconsin—Breakwaters—U. S. Engineer Office, Federal Bldg., Milwaukee, plans cutting down and placing new concrete tops on breakwaters in harbors at Manitowoc, Kenosha, Racine and Sheboygan, also rebuilding concrete dam at Little Rapids, Brown Co., etc.

BIDS DESIRED

Conn., Mystic—Post Office—May 11, by Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here.

N. Y., Brooklyn—Chimney—Spec. 5077—May 6, by Bureau Yards & Docks, Navy Dept., Wash., D. C., radial brick chimney at Navy Yard, here; adv. E. N.-R. Apr. 23. Noted Mar. 26.

N. Y., Fort Wright (Fishers Island P. O.) —Improvements—Apr. 29, by Quartermaster, improving Natl. guard camp, here; adv. E. N.-R. Apr. 23.

D. C., Wash. — Cement — Apr. 23, at office General Purch. Officer of Panama Canal, Portland cement.

Ala., Mobile—Hospital—May 5, by Treas. Dept. at office Supervising Archt., Wash., D. C., marine hospital, here.

Tenn., Memphis — Rip Rap Stone — May 11, by Mississippi River Comn., 1006 McCall Bldg., 12,000 cu.yd. rip rap stone.

Ill., Rock Island — Hull for Towboat — May 16, by U. S. Engineer Office, one steel hull for towboat Ellen; adv. E. N.-R. Apr. 23.

Minn., Duluth—Breakwater—May 15, by U. S. Engineer Office removing timber superstructure, furnishing and placing stone rip rap along and on breakwater upper entrance, Keweenaw Waterway, Mich.; adv. E. N.-R. Apr. 23.

Mo., Fayette—Post Office—May 20, by Treas. Dept. at office Supervising Archt. Wash., D. C., post office building, here; adv. E. N.-R. Apr. 23.

Mo., St. Louis — Towboat — May 27, by U. S. Engineer Office, War Dept., Wash., D. C., 100 ft. steel hull Diesel electric towboat, here.

Oklahoma—Roads—Apr. 27, by G. E. Goodwin, ch. engr. Dept. Interior, Natl. Park Service, improving, widening and surfacing roads of Platt Natl. Park.

BIDS RECEIVED

Mass., Amherst — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office building, here, from A. M. Lundberg, Federal Reserve Bank Bldg., St. Louis, Mo., $65,600. Noted Mar. 26.

Cuba, Guantanamo—Water Tank—Spec. 5006—Bureau Yards & Docks, Navy Dept., Wash., D. C., 500,000 gal. water tank, here, from Lancaster Iron Wks., Inc., South Prince and Hager Sts., Lancaster, Pa., $5,050. Noted Mar. 12.

CONTRACTS AWARDED

S. C., Charleston—Dredging—U. S. Engineer Office, dredging in Sampit River, Winyah Bay, to Sanford & Brooks Co., Charleston, $68,900. Noted Feb. 26.

La., New Orleans—Levee Work—Fourth Mississippi River Dist., 140 Decatur St., 6,000,000 cu.yd. levee work, in Upper and Lower St. Francis, Reelfoot and White River Levee Dists., Items 1, 2 and 7, to Sternberg Dredging Co., Arcade Bldg., St. Louis, Mo., $131,100; Items 3, 5, 9, 17 and 19, to Lawrence Bros., Memphis, Tenn., $388,560; Item 8, to S. K. Jones Constr. Co., Rand Bldg., Memphis, Tenn., $39,490; Items 22 to 24 (inclusive), to W. H. Denison, Cushman, Ark., $111,000; Items 25 to 27 and 31 to 35 (inclusive), to Hercules Co., Ltd., Cotton Exch. Bldg., $308,424. Noted Mar. 26.

Ky., Louisville—Sheet Piling—U. S. Engineer Office, P. O. Box 72, steel sheet piling for Locks and Dams 45, 46 and 53, to Carnegie Steel Co., Carnegie Bldg., Pittsburgh, $143,288. Noted Mar. 5.

Ill., Great Lakes—Buildings, etc.—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., constructing hospital, here, general contract, to Murch Bros. Constr. Co., Ry. Exch. Bldg., St. Louis, Mo., $623,184; plumbing and heating to C. A. Hooper, 453 West Gilman St., Madison, Wis., $142,730; electrical work, to Domestic Utilities & Supply Co., Oshkosh, Wis., $25,135. Noted Mar. 26.

Wash., Puget Sound — Roofing — Spec. 5100—Bureau Yards & Docks, Navy Dept., Wash., D. C., reroofing portion of Building 84, here, to Johns-Mansville, Inc., 124 West Massachusetts Ave., Seattle, $2,485 (60 days). Noted Apr. 16.

Calif., San Diego — Surfacing — Spec. 5089—Bureau Yards & Docks, Navy Dept., Wash., D. C., surfacing warming up platform, here, to R. E. Burgund, Heegaard Bldg., Veverly Hills, $2,390 (60 days). Noted Apr. 16.

H. T., Pearl Harbor — Hangars — Spec. 5046—Bureau Yards & Docks, Navy Dept., Wash., D. C., hangars, here, etc. to Austin Eng. Co., 121 West 42nd St., New York City, $221,272 (270 days) at Pearl Harbor, and 400 days at Coco Solo. Noted Apr. 16.

Unclassified

PROPOSED WORK

Golf Course — Pittsfield, Mass. — Pittsfield Golf Club, developing 85 acres at Poutoosuc Lake for golf course etc. $30,000 or more. Engineer not selected.

Land Development—Providence, R. I.— City Council plans developing land on Douglas Ave. and Stanbury St., for school purposes. $25,000.

Coal Burning Apparatus—Trenton, N. J. — State Bd. Educ. having specifications made coal burning apparatus to take place of oil burning apparatus in State Normal School. $16,000. Guilbert & Bettelle, Chamber Commerce Bldg., Newark, archts.

Fill—Phila., Pa.—G. W. Biles, dir. Dept. Pub. Wks., rejected bids Apr. 14, fill for municipal stadium. Will readvertise. Noted Apr. 9.

Transmission Line—Mississippi—Mississippi Power Co., Gulfport, making preliminary plans 50 mi. 44,000 volt transmission line from Starkville to state line. Work

Unclassified (Continued)

will probably be done by day labor. Private plans.

Dock—Detroit, Mich.—Dept. Pub. Wks., City Hall, making plans rein.-con. and timber dock and pier. $80,000. G. Jerome, city engr.

Street Lighting System — Alliance, Neb. —See "Waterworks."

Swimming Pool—Fredericksburg, Tex.—City takes bids after Apr. 25, rein.-con. swimming pool. $25,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., engrs.

Transmission Line—Orlando, Okla.—Defeated $12,000 bonds for 18 mi. transmission line to Perry. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs. Noted Apr. 2.

Gas Holder, etc.—Winslow, Ariz. — City making plans 50,000 cu.ft. gas holder; oil and gas generator with scrubbers 10,000 cu.ft. per hr. capacity; one 40 x 54 ft., brick or concrete building with steel trusses, etc.; gas booster, 6,000 cu.ft. per hr. capacity, 2 suitable lamp black filters, 2,000 lin.ft. 6 in. c.i. gas mains, etc. $50,000. H. R. Lendecke, city engr.

Oil Tanks—Levis, Que.—British Amer. Oil Co., Limollou, plans 3 oil tanks, 12,000 gal. each. $25,000.

Power Development—Brockville, Ont.—Hydro Electric Power Comn., 190 University Ave., Toronto, making surveys hydro-electric development on Gananoque River, in Leeds Co. $750,000. F. A. Gaby, ch. engr.

Wharf and Warehouse — Blind River, Ont.—Dept. Pub. Wks., Parliament Bldgs., Ottawa, plans wood pile crib, stone and concrete wharf $47,000, also warehouse $2,100. K. M. Cameron, Hunter Bldg, Ottawa, ch. engr.

Harbor Improvements—Kincardine, Ont. —Dept. Pub. Wks., Parliament Bldgs., Ottawa, plans wharf repairs, improvements, dredging, etc., here. $150,000. K. M. Cameron, Hunter Bldg., Ottawa, ch. engr.

Dock — St. Johns, Nfld. — Government making plans 600 ft. dock, 70 ft. wide. $1,000,000. W. I. Bishop & Co. Ltd., New Birks Bldg., Montreal, Que., engrs.

BIDS DESIRED

Mechanical Equipment — Long Island City, N. Y.—Apr. 27, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, mechanical equipment, heating and ventilating apparatus for Jamaica High School, Grand and Chapin Aves.

Subway—New York, N. Y.—May 7, by Bd. Transportation, 49 Lafayette St., constructing Sect. 6B, of Route 78.

Gas Mains—Iron Mountain, Mich.—Iron Mountain Gas Co., W. Tibbs, pres., 215 West Water St., Milwaukee, Wis., taking bids 5 to 6 mi. gas mains in various streets. $27,000.

Stadium—Milwaukee, Wis.—Apr. 30, by F. Harbach, secy. School Bd., 10th and Prairie Sts., 50 x 360 ft., rein.-con. stadium, Windlake Ave. $100,000. Van Ryn & DeGelleke, 10th and Prairie Sts., engrs. Noted Apr. 16.

Fireboat—Houston, Tex.—H. L. Washburn, aud. Harris Co., Court House, and J. A. Schiller, engr., Houston, taking bids and open same about Apr. 30, fireboat with steel hull, 125 ft. 10 in. long 27 ft. beam, twin screw, Diesel electric engines, two 35,000 g.p.m. pumps, etc. $300,000.

Transmission Line—Oklahoma—Apr. 27, by G. C. Mitchell, city clk., Carter, 18 mi. 13,200 volt electric transmission line from Elk City to Carter, also one 50 kw. step down station and electric distribution system, in Carter. $25,000. Noted Feb. 19.

Grain Elevators—Regina, Sask.—May 1, by Saskatchewan Pool Elevators Ltd., Union Bank Bldg., thirty 32,000 bu. grain elevators.

BIDS RECEIVED

Athletic Field and Field House—Brooklyn, N. Y.—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Apr. 14, athletic field and field house, for Thomas Jefferson High School, Pennsylvania and New Jersey Aves., from Hayson Constr. Co., Arverne, for Bd. Educ., 500 Park Ave., New York City. $139,247. Noted Apr. 9.

CONTRACTS AWARDED

Swimming Pool, etc.—Holyoke, Mass.—Bd. Pub. Wks., City Hall, 40 x 75 ft. pool, and 20 x 60 ft. shelter house, concrete and stucco, to P. J. Kennedy & Co., Inc., 46 Park St., $21,000. Engrs. est. $30,000. Noted Apr. 16.

Coal Storage Yard, etc.—Manchester, Conn.—G. E. Willis & Son, Inc., 2 Main St., 40 x 150 ft. anthracite storage shed, 22 ft. high at center, 100 ft. trestle and towers, etc., to Manchester Constr. Co., Main St., Springfield, Mass.; spur track to yard, to Fred T. Ley Co., 495 Main St., Springfield, Mass.; track hopper, bucket elevator and tower hopper, to Gifford-Wood Co., 24 Milk St., Boston, Mass. This corrects report in Apr. 16 issue.

Subway—New York, N. Y.—Bd. Transportation, 49 Lafayette St., constructing section of Central Park West-Washington Heights subway line along Central Park West from 68th to 77th Sts., to J. F. Cogan Co., Grand Central Bldg., $4,190,000. Noted Apr. 9.

Prison Wall—Ossining, N. Y.—J. L. Long, supt. State Prisons, Albany, rein.-con. and steel prison wall, here, to M. Delfino, Ossining. $200,000.

Swimming Pool—Sioux City, Ia.—City, 140 x 240 ft. swimming pool, 800,000 gal. capacity, and 36 x 80 ft. bath house, at Riverside Park, to Coomer & Small, U. B. Bldg., Sioux City, $25,735.

Storage Tanks—Topeka, Kan.—Homer & Wyatt, engrs., 300 Bd. Trade Bldg., Kansas City, Mo., 8 rein.-con. storage tanks, 90 ft. high and 18 ft. diam., 180,000 bu. capacity, to Industrial Eng. & Constr. Co., 520 Kansas City Life Bldg., Kansas City, Mo., for Topeka Flour Mills Co., 126 North Jefferson St. Noted Mar. 12.

Heating and Plumbing, etc.—Dallas, Tex. —OFFICE — See "Buildings — Commercial under Bids Desired."

Underpass — Winnemucca, Nev. — State Hy. Comn., Carson City, 685 ft. underpass under Central Pacific R.R. tracks, Humboldt Co., here, 7,750 cu.yd. excav., 370 cu.yd. excav. for 15 in. concrete pipe and furnish 450 ft. 15 in. concrete pipe, 640 cu.yd. concrete, to A. D. Drumm, Jr., Fallon, $18,305. Noted Mar. 19 under "Nevada."

Tug — Sorel, Que. — Dept. Marine & Fisheries, Ottawa, Ont., will build 24 x 100 ft. tug, here, by day labor. $30,000. M. Johnston, Sorel, engr.

Harbor Improvements—Port Stanley, Ont. —S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, deepening and widening harbor and extending stone and cement breakwater, to Birmingham & Son, Kingston. Engrs. est. $160,000. Noted Mar. 5.

Gas Mains — Toronto, Ont. — Consumers Gas Co., 55 Adelaide St. E., will lay new c.i. and steel gas mains in various streets, by day labor. $500,000. Private plans.

Material and Equipment

PROPOSED WORK

Traffic Control Signals—Springfield, Ill.—City plans to purchase 10 synchronizer automatic traffic control signals. S. A. Bullard, mayor. $2,500.

Crusher Rolls — Inspiration, Ariz. — Inspiration Consolidated Copper Co., plans to purchase four 72 in. crusher rolls for leaching plant. $140,000. G. H. Booth, Inspiration, engr.

BIDS DESIRED

Steam Cinders—Brooklyn, N. Y.—Apr. 29, by J. A. Guider, boro pres. Boro Hall, 10,000 cu.yd. steam cinders.

Trucks—Long Island City, N. Y.—Apr. 29, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., twenty 3½ ton motor trucks to Bureau Street Cleaning as directed.

Cranes — Baltimore, Md. — Baltimore & Ohio R.R. in market for three 25 ton locomotive cranes.

Crane—Richmond, Va.—J. G. Skelton Co. Inc., Virginia Railway & Power Bldg., J. G. Skelton, mgr., in market for 30 to 50 ft. span motor driven traveling crane, 5 to 7 ton capacity. Second-hand machine might be decided upon.

Accumulator, etc.—Chicago, Ill.—International Harvester Co., 606 South Michigan Ave., A. McDonald, purch. agt., in market for 1 accumulator, 750 cu.in. displacement for 1,500 lb. hydraulic working pressure.

Ford Tractors and Chassis—Chicago, Ill. —Apr. 28, by J. J. McComb, West Chicago Park Comr., 2 Fordson tractors or equal equipped with Weaver cab W and K, 10 x 40 single solid tire wheels, W and K bumper and radiator shield, brakes and spring seat, Weir muffler and pintle hooks in rear for trailers, also 2 Ford chassis equipped with tractor attachments and dump bodies for cutting grass on golf course, also 2 gangs of 5 each Fairway mowers without rollers.

Loading Unit, etc.—Chicago, Ill.—A. H. Driscoll, purch. agt. Fullerton Fuel & Supply Co., 4000 Fullerton Ave., Chicago, in market for heavy loading and unloading unit, also conveyors for new retail yard at 2426 West Crawford Ave. Fullerton.

Pump, Heater, etc.—Chicago, Ill.—Apr. 27, by Commissioner Pub. Wks., 406 City Hall, 1 steam turbine driven centrifugal boiler feed pump complete, delivered to Roseland Pumping Station, 104th St. and Stewart Ave., $1,500; 2 open feed water heaters, induction type, and 1 atmospheric relief valve, $5,500.

Road Oil—Green Bay, Wis.—W. L. Kerr, city clk., taking bids 30,000 gal. road oil having 50 to 60 per cent asphaltic content.

Crushed Limestone, etc. — Minneapolis, Minn.—Apr. 29, by F. S. Gram, city purch. agt., 10,000 cu.yd. 3 x 3 crushed limestone, and 3,000 cu.yd. screenings. N. W. Elsberg, city engr.

Road Maintainers, etc.—Madison, S. D. — Apr. 27, by J. J. Mackay, aud. Lake Co., 3 road maintainers, 2 slips, 2 fresnos and 6 road drags.

Grader — Lubbock, Tex. — C. Nordyke, judge Lubbock Co. taking bids 1 elevating grader. $1,000.

Pipe—Port Arthur, Tex.—May 5, by J. F. Logan, mayor, 1,790 ft. 18 in. 4,425 ft. 15 in., 1,800 ft. 12 in., 8,953 ft. 10 in., and 38,485 ft. 8 in. pipe. $25,000. Engineer not announced.

Stone Crusher—Birch Cliff, Ont.—Scarborough Twp. in market for stone crusher. C. E. Fraser, 301 Kingston Rd., Toronto, engr.

Cement, Crushed Stone, etc. — Toronto, Ont.—R. Miller & Son Ltd., Harbor Bldg., wants prices on 1,191 bbl. super cement, 1,320 bbl. Portland cement, 1,757 tons crushed stone, 2,370 tons rubble stone, and 1,098 tons sand. $20,000-$25,000.

CONTRACTS AWARDED

Gravel and Sand—Boston, Mass.—Furnishing (a) bank gravel (b) sand to various districts in (1) South Boston (2) East Boston (3) Charlestown (4) Brighton (5) West Roxbury (6) Dorchester and Ashmont (7) Roxbury (8) Hyde Park (9) Dist. 8 (10) Dist. 10, to M. Doyle & Co., Inc., Weld Ave., Roxbury., (a1) $1 (b1) $1 (a3) $1.15 (b3) $1.15; to P. O'Rioden (a2) $1 (b2) $1; to G. H. Noone, 353 Gardner St., West Roxbury, (a4) $0.85 (b4) $0.94 (a5) $0.85 (b5) $0.92 (a6) $1.14 (b6) $1.14 (a7) $0.97 (b7) $0.97 (a8) $0.98 (b8) $0.98 (a9) $0.98 (b9) $0.98; to Massachusetts Sand & Gravel Co., 454 O. S. Bldg., Newton Upper Falls, (a10) $1.10 (b10) $1.25. Noted Mar. 12.

Sewer Brick, etc.—Boston, Mass.—Supply Dept., 260,000 sewer brick to various depts., and Portland cement delivered as required, to J. P. O'Connell & Co., 11 Beacon St., $22,000 per M, and $3 per bbl. respectively; 500 tons road asphalt for construction OA-2, also 50 bbl. heavy engine and machine oil, and 100 bbl. cylinder oil, to Standard Oil Co. of New York, Park Sq. Bldg., $27.61 per ton, $0.213 per gal., and $0.295 per gal. respectively; 50,000 wood blocks to Pub. Wks. Dept., and 50,000 wood blocks to Paving Serv., delivered at Albany St., to C. and R. Constr. Co., 67 Harrison St. E., Roxbury, $66 per M. each; 350,000 gal. 45% asphalt road oil to Pub. Wks. Dept., to Alden Speare's Sons Co., 156 6th St., Cambridge, $0.077 per gal.; beach gravel delivered as required until Dec. 31, to W. R. Farrell, 63 Long Wharf, $1.43 per ton; crushed stone, screenings, etc., in East Boston, to Rowe Contg. Co., North Revere, $1.95 per ton, in South Boston, Dist. 8 and Dist. 10, to J. C. Coleman & Sons Co., 1620 Tremont St., Roxbury, $2.20, $1.90 and $2.25 per ton respectively, in Charleston to Coleman Bros., Inc., 245 State St., $2.25 per ton, in Brighton, to Beatty Constr. Co., 66 Warren St., $2.45 per ton, in West Roxbury, to New England Crushed Stone Co., 4959 Washington St., West Roxbury, $2.25 per ton, in Dorchester and Ashmont, to W. J. Barry, Roslindale, $2.19 per ton, in Roxbury and Hyde Park, to Standard Contg. Co., 1251 Center St., $2.10 each. Noted Apr. 2.

Cement—Milwaukee, Wis.—J. H. Fowles, secy. Sewerage Comn., 508 Market St., 20,000 bbls. Portland cement delivered on Jones Island, to Western Lime & Cement Co., 68 Wisconsin St., at $3 per bbl.

Flusher and Sprinkler—Milwaukee, Wis. —Central Bd. Purchases, City Hall, 2 street flusher and sprinkler units, to Municipal Supply Co., South Bend, Ind., $2,583 each.

Paving Blocks—Milwaukee, Wis.—D. W. Hoan, chn. Central Bd. Purchases, 14 cars more or less 3.5 in. creosoted wood paving blocks, to E. J. Stocking, 111 West Washington St., Chicago, Ill., at $2.07 per sq.yd. Noted Mar. 26.

Asphalt, etc.—Ottawa, Ont.—Bd. Control, City Hall, to Imperial Oil Ltd., Catherine St., asphalt $27.45 in packages, $23.40 in tanks, 150,000 gal. bituminous material; to E. Brule, Ottawa, broken stone $1.64 for 2½ to ¾ in. and $2.10 for ⅝ in. and pea; to H. Dupuis & Sons, 273 Laurier Ave. Hill, asphalt sand $1.19 per cu.yd.; to Barrett Bros., Catherine St., 1,200 bbl. cement. Noted Feb. 19.

Road Material, etc.—Ottawa, Ont.—Ottawa Suburban Rds. Comn., Thistle Bldg., 150,000 gal. bituminous road material and asphalt, to Imperial Oil Co., Imperial Oil Bldg., Toronto; 1,200 bbl. cement, to Barrett Bros., Catherine St.; broken stone, to E. Brule, Ottawa, $1.64 to $2.10 per cu.yd.

CONSTRUCTION NEWS

Engineering News-Record, April 30, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded are the following big jobs.

Proposed Work

Organization building, San Francisco, Calif., F. and A. M., $8,000,000 to $10,000,000.

Schools, Knoxville, Tenn., bond election, May 15, $2,225,000.

Loft, New York, N. Y., for S. Barkin, $2,000,000.

Apartment, New York, N. Y., preparing plans, $1,500,000.

Theater and office building, preparing plans, $1,500,000.

School, Roxbury, Mass., preparing sketches, $1,480,000.

State building (offices) Los Angeles, Calif., bond election planned, $1,250,000.

Hotel, New York, N. Y., preparing plans, $1,250,000.

Capitol building, Sacramento, Calif., bond election planned, $1,250,000.

Power plant, Rocky Creek, S. C., plans prepared, $1,250,000.

High school, San Francisco, Calif., preparing plans, $1,200,000.

Railroad, Alberta, Canada, 25-mi., C. P. Ry., $1,000,000.

Bids Wanted On Big Jobs

Bridge sub-structure, Montreal, Que., bids opened Apr. 28, total cost, $8,000,000.

Warehouse, Houston, Tex., soon takes bids, $3,100,000.

Apartment, Jersey City, N. J., soon takes bids, $1,000,000.

Superstructure of filtration plant, Washington, D. C., bids opened about May 1, $1,000,000.

Large Contracts Let During Week

Subway, Philadelphia, Pa., awarded to Keystone State Constr. Co., $16,863,437.

Paper mill, Three Rivers, Que., awarded to Foundation Co., Ltd., Montreal, $3,000,000.

Subway, Rochester, N. Y., awarded to I. M. Ludington's Sons, $1,937,811.

High school, Cleveland, O., awarded to Schirmer-O'Hara Co., Cleveland, $1,035,252.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
May 1	Reading, Mass.	Apr. 30
May 4	Stillwater, Minn.	Apr. 16
May 4	Winthrop Harbor, Ill.	Apr. 30
May 4	Long Island City, N. Y.	Apr. 30
May 4	Brooklyn, N. Y.	Apr. 30
May 4	Milwaukee, Wis.	Apr. 30
May 4	Parshall, N. D.	Apr. 30
May 5	Waseca, Minn.	Apr. 16
May 5	Wisconsin Rapids, Wis.	Apr. 23
May 5	Drummondville, Que.	Apr. 23
May 5	Bayville, N. Y.	Apr. 23
May 5	Wewoka, Okla.	Apr. 30
May 5	Brooklyn, N. Y.	Apr. 30
May 6	Vancouver, B. C.	Apr. 23
May 6	Baltimore, Md.	Apr. 30
May 7	High Point, N. C.	Apr. 9
May 7	Narrowsburg, N. Y.	Apr. 23
	Adv. Apr. 23 and 30.	
May 7	De Pere, Wis.	Apr. 30
May 8	Bossier City, La.	Apr. 30
May 9	Columbus, O.	Apr. 30
May 11	Tallahassee, Fla.	Apr. 9
May 12	Jaffrey, N. H.	Apr. 30
	Adv. Apr. 30.	
May 13	Donaldsonville, La.	Apr. 30
May 19	Ridgewood, N. J.	Apr. 30
	Adv. Apr. 30.	
May 28	Quincy, Ill.	Apr. 30
	SEWERS	
May 4	Gary, Ind.	Apr. 23
May 4	Adrian, Mich.	Apr. 23
May 5	Summit, N. J.	Apr. 23
	Adv. Apr. 23 and 30.	
May 5	Wewoka, Okla.	Apr. 30
May 5	Ft. Smith, Ark.	Apr. 30
May 5	Phila., Pa.	Apr. 30
May 6	Peterboro, Ont.	Apr. 23
May 7	Claremont, Calif.	Apr. 30
May 7	Long Island City, N. Y.	Apr. 30
May 8	Louisville, Ky.	Apr. 16
	Adv. Apr. 16 to 30.	
May 8	Bossier City, La.	Apr. 30
May 8	Milwaukee, Wis.	Apr. 30
May 9	Columbus, O.	Apr. 30
May 9	Lackawanna, N. Y.	Apr. 30
	Adv. Apr. 30.	
May 9	Elmira, Ont.	Apr. 30
May 12	Magnolia, Ark.	Apr. 30
May 12	Isanti, Minn.	Apr. 30
May 14	Buffalo, N. Y.	Apr. 23
May 14	Ardmore, Pa.	Apr. 30
	Adv. Apr. 30.	
May 15	Springfield, Ill.	Apr. 16
May 15	Lake Forest, Ill.	Apr. 30
May 25	Ojai, Calif.	Apr. 30
June 1	River Grove, Ill.	Apr. 23
June 1	Deerfield, Ill.	Apr. 23
	WASTE DISPOSAL	
May 18	Saratoga Springs, N. Y.	Apr. 30
	Adv Apr. 30.	

Bids Close		See Eng. News-Record
	BRIDGES	
May 1	Epsom, N. H.	Apr. 30
May 4	Lewistown, Pa.	Apr. 23
May 4	Greensburg, Pa.	Apr. 30
May 5	Sweetwater, Tex.	Apr. 16
May 5	North Carolina	Apr. 30
May 8	Dayton, O.	Apr. 23
	Adv. Apr. 23 and 30.	
May 8	Sweetwater, Tex.	Apr. 30
May 11	New Jersey	Apr. 30
	Adv. Apr. 23 and 30.	
May 11	Los Angeles, Calif.	Apr. 30
May 5	Oklahoma	Apr. 30
May 13	Alabama	Apr. 16
May 26	Portland, Ore.	Apr. 30
June 2	Alagadsden	Apr. 30
June 3	Minnesota	Apr. 30
	Adv. Apr. 30.	
	RAILWAYS	
May 7	New Jersey	Apr. 2
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
May 5	British Columbia	Apr. 30
May 6	Columbus, Neb.	Apr. 30
May 10	Hartford, Conn.	Apr. 30
	STREETS AND ROADS	
May 1	Pennsylvania	Apr. 16
	Adv. Apr. 16 to 30.	
May 1	Forest Park, Ill.	Apr. 23
May 1	New Hampshire	Apr. 30
May 1	Steubenville, O.	Apr. 30
May 1	Kingston, Ont.	Apr. 30
May 2	Franklin, Tex.	Apr. 16
May 2	Pennsylvania	Apr. 16
	Adv. Apr. 16 to 30.	
May 2	Tuscumcari, N. M.	Apr. 23
May 2	New Toronto, Ont.	Apr. 30
May 4	North Dakota	Apr. 16
May 4	New York	Apr. 23
May 4	California	Apr. 23
May 4	Los Angeles, Calif.	Apr. 23
May 4	Martinez, Calif.	Apr. 23
May 4	North Dakota	Apr. 23
May 4	Brooklyn Heights (mail Independence), O.	Apr. 23
May 4	New Jersey	Apr. 23
	Adv. Apr. 23 and 30.	
May 4	Lake Placid, N. Y.	Apr. 23
	Adv. Apr. 23 and 30.	
May 4	Arizona	Apr. 23
May 4	Adams, Mass.	Apr. 23
	Adv. Apr. 23 and 30.	
May 4	Rensselaer, Ind	Apr. 23
May 4	Scarsdale, N. Y.	Apr. 23
	Adv. Apr. 16 to 30.	
May 4	Westfield, N. Y.	Apr. 23
May 4	Garfield Heights (Cleveland P. O.), O.	Apr. 30
May 4	St. Paul, Minn.	Apr. 30
May 4	St. Johns, Mich.	Apr. 30
May 4	Long Island City, N. Y.	Apr. 30
May 4	Providence, R. I.	Apr. 30
May 4	Akron, O.	Apr. 30
May 4	South Milwaukee, Wis.	Apr. 30
May 4	Two Harbors, Minn.	Apr. 30

Bids Close		See Eng. News-Record
May 4	Dunbar, W. Va.	Apr. 30
May 4	Riverside, Ill.	Apr. 30
May 4	Moorehead, Minn.	Apr. 30
May 4	Phila., Pa.	Apr. 30
May 5	St. Louis, Mo.	Apr. 16
May 5	Sweetwater, Tex.	Apr. 16
May 5	New York, N. Y.	Apr. 16
	Adv. Apr. 16 to 30.	
May 5	Tecumseh, Neb.	Apr. 23
May 5	North Carolina	Apr. 23
May 5	Plymouth, Ind.	Apr. 23
May 5	Warsaw, Ind.	Apr. 23
May 5	Ft. Wayne, Ind.	Apr. 23
May 5	Columbia, Ind.	Apr. 23
May 5	Maryland	Apr. 23
	Adv. Apr. 23 and 30.	
May 5	North Dakota	Apr. 23
May 5	Hartford, Wis.	Apr. 23
May 5	Winona, Miss.	Apr. 23
May 5	Primghar, Ia.	Apr. 23
May 5	Baton Rouge, La.	Apr. 30
May 5	Tulsa, Okla.	Apr. 30
May 5	Colusa, Calif.	Apr. 30
May 5	Duluth, Minn.	Apr. 30
May 5	Elkins, W. Va.	Apr. 30
May 5	Winona, Miss.	Apr. 30
May 5	Wewoka, Okla.	Apr. 30
May 5	Boston, Mass.	Apr. 30
May 5	Indiana	Apr. 30
May 5	Valparaiso, Ind.	Apr. 30
May 5	Compton, Calif.	Apr. 30
May 5	Oklahoma	Apr. 30
May 5	Jefferson, Ia.	Apr. 30
May 6	San Francisco, Calif.	Apr. 16
May 6	Williamstown, Ont.	Apr. 23
May 6	North Dakota	Apr. 23
May 6	New York, N. Y.	Apr. 30
May 6	Long Island City, N. Y.	Apr. 30
May 6	Ackley, Ia.	Apr. 30
May 6	Franklin Park, Ill.	Apr. 30
May 6	Illinois	Apr. 30
May 7	Louisiana	Apr. 23
May 7	North Dakota	Apr. 23
May 7	Broken Bow, Neb.	Apr. 23
May 7	East Providence (Providence P. O.), R. I.	Apr. 30
	Adv. Apr. 30.	
May 7	St. George, N. Y.	Apr. 30
May 7	Des Moines, Ia.	Apr. 30
May 7	Gulfport, Miss.	Apr. 30
May 8	Hebron, Neb.	Apr. 23
May 8	Worthington Minn.	Apr. 30
May 8	Idaho	Apr. 30
May 8	Huntington, W. Va.	Apr. 30
May 8	Sweetwater, Tex.	Apr. 30
May 8	Alpine, Tex.	Apr. 30
May 9	Sweetwater, Tex.	Apr. 30
May 11	New Jersey	Apr. 23
	Adv. Apr. 23 and 30.	
Mya 11	California	Apr. 30
May 11	Illinois	Apr. 30
May 11	San Diego, Calif.	Apr. 30
May 11	Huntington, Ind.	Apr. 30
	Adv. Apr. 30.	
May 12	Liberty, Tex.	Apr. 30
May 12	El Paso, Tex.	Apr. 30
May 12	Maryland	Apr. 30
	Adv. Apr. 30.	
May 12	Louisiana	Apr. 30
May 12	Washington	Apr. 30

Bids Close		See Eng. News-Record
May 12	Auburn, N. Y. Adv. Apr. 30.	Apr. 30
May 12	Oklahoma	Apr. 30
May 12	Bridgeton, N. J. Adv. Apr. 30.	Apr. 30
May 13	Alabama	Apr. 9
May 13	North Dakota	Apr. 23
May 13	Homer, La.	Apr. 23
May 13	Ithaca, N. Y. Adv. Apr. 23 and 30.	Apr. 23
May 13	Baltimore, Md.	Apr. 30
May 14	Louisiana	Apr. 30
May 15	Duluth, Minn.	Apr. 9
May 15	Fayette, W. Va.	Apr. 23
May 15	Lake Forest, Ill.	Apr. 23
May 15	Canton, O.	Apr. 30
May 18	St. Petersburg, Fla. Adv. Apr. 30.	Apr. 30
May 20	Cape May, N. J. Adv. Apr. 23 and 30.	Apr. 23
May 20	Delaware Adv. Apr. 30.	Apr. 30
May 21	Poughkeepsie, N. Y. Adv. Apr. 30.	Apr. 30
May 30	Bucoda, Wash.	Apr. 30
June 1	Duluth, Minn.	Mar. 12
June 10	Duluth, Minn.	Apr. 9

BUILDINGS—INDUSTRIAL

May 4	White Plains, N. Y. Adv. Apr. 23 and 30.	Apr. 23
May 6	Rapid City, S. D.	Apr. 23
May 8	Neopit, Wis.	Apr. 16
May 8	Watertown, Wis.	Apr. 30
May 11	Los Angeles, Calif.	Apr. 30
May 15	Terra Haute, Ind.	Apr. 30

BUILDINGS—COMMERCIAL

May 1	Johnstown, Pa.	Mar. 19
May 1	Clinton, N. J.	Apr. 23
May 1	Providence, R. I.	Apr. 30
May 1	Chicago, Ill.	Apr. 30
May 4	Concord, N. H.	Apr. 30
May 5	Dayton, O.	Apr. 23
May 5	Tampa, Fla.	Apr. 30
May 5	Pitman, N. J.	Apr. 30
May 5	Hanover, Pa.	Apr. 30
May 6	Pickering, N. C.	Apr. 23
May 6	Hickory, N. C.	Apr. 23
May 6	Cape May, N. J. Adv. Apr. 23 and 30.	Apr. 30
May 7	San Antonio, Tex.	Mar. 26
May 7	Bethlehem, Pa.	Apr. 30
May 7	Alliance, O.	Apr. 30
May 11	Asyla (mail Grenlock), N. J.	Apr. 23
May 12	York, Pa.	Apr. 30
May 14	Thiells, N. Y. Adv. Apr. 23 and 30.	Apr. 23
May 23	New Orleans, La. Adv. Apr. 30.	Apr. 16
June 2	Walters, Okla.	Apr. 23
July 14	Phila., Pa.	Feb. 19

BUILDINGS—EDUCATIONAL, RELIGIOUS

May 1	Cranston, R. I.	Apr. 23
May 2	Ridgefield, Conn.	Apr. 30
May 4	Great Neck, N. Y.	Apr. 16
May 4	Toronto, Ont.	Apr. 23
May 4	Glen Ellyn, Ill.	Apr. 30
May 5	Chicago, Ill.	Apr. 30
May 5	Newago, Mich.	Apr. 30
May 5	Muskegon, Mich.	Apr. 30
May 7	West Chester, Pa.	Apr. 30
May 8	Minneapolis, Minn.	Apr. 30
May 9	Jackson, Miss.	Apr. 30
May 14	Hillside, N. J.	Apr. 23
May 15	South Charleston, D.	Apr. 23
May 19	Austin, Tex.	Apr. 30
May 20	Dayton, O.	Apr. 30
June 10	Evanston, Ill.	Apr. 23

FEDERAL GOVERNMENT WORK

May 1	Dredging — Providence, R. I.	Apr. 2
May 4	Breakwater—Duluth, Minn. Adv. Apr. 9 to 30.	Apr. 9
May 4	Transmission Line—Florence, Ala.	Apr. 30
May 4	Dredging—Charleston, S. C.	Apr. 30
May 5	Rip Rap Stone—Vicksburg, Miss.	Apr. 16
May 5	Hospital—Mobile, Ala.	Apr. 23
May 6	Chimney—Brooklyn, N. Y. Adv. Apr. 23 and 30.	Apr. 23
May 6	Post Office—Houghton, Mich.	Apr. 16
May 6	Wall—San Juan, P. R.	Apr. 16
May 6	Road—Colorado	Apr. 30
May 7	Dam-Newburg, Ind. Adv. Apr. 9 to 30.	Apr. 9
May 7	Post Office—Thomasville, N. C.	Apr. 16
May 11	Metal Works—Louisville, Ky. Adv. Apr. 16 to 30.	Apr. 16
May 11	Post Office—Mystic, Conn.	Apr. 23
May 11	Rip Rap Stone—Memphis, Tenn.	Apr. 23
May 11	Dredge—Wash., D. C.	Apr. 23
May 13	Chimney—Melville, R. I.	Apr. 30
May 15	Breakwater—Duluth, Minn. Adv. Apr. 23 and 30.	Apr. 23
May 15	Steel Castings—Louisville, Ky. Adv. Apr. 30.	Apr. 30
May 16	Hull for Towboat—Rock Island, Ill. Adv. Apr. 23 and 30.	Apr. 23
May 19	Post Office — Aberdeen, Wash.	Apr. 30
May 20	Post Office—Fayette, Mo. Adv. Apr. 23 and 30.	Apr. 23
May 20	Brush and Poles—Memphis, Tenn.	Apr. 30
May 21	Quarters — Oceanport, N. J. Adv. Apr. 23 and 30.	Apr. 30
May 22	Dike—Detroit, Mich. Adv. Apr. 23 and 30.	Apr. 30
May 26	Hospital—Lake City, Fla. Adv. Apr. 23 and 30.	Apr. 30
May 27	Tow-boat—St. Louis, Mo.	Apr. 23
July 8	Hospital—Canacao, P. I.	Apr. 16

UNCLASSIFIED

May 4	Transmission Line—Minnesota	Apr. 30
May 5	Street Lighting System — Brainard, Minn.	Apr. 30
May 7	Subway—New York, N. Y.	Apr. 23
May 8	Tunnel—New York, N. Y.	Mar. 5
May 8	Borings—New York	Apr. 30
May 11	Steam Heating Plant — Doylestown, Pa. Adv. Apr. 23 and 30.	Apr. 30
May 12	Wharf, etc.—Goderich, Ont.	Apr. 30
May 14	Street Lighting System—Watertown, N. Y.	Apr. 30
May 27	Fire Alarm System—Ogdensburg, N. Y. Adv. Apr. 30.	Apr. 30

MATERIALS

May 1	Road Oil—Saulte Ste. Marie, Ont.	Apr. 30
May 4	Iron and Steel Castings—New York, N. Y.	Apr. 30
May 4	Road Materials—Greensburg, Pa.	Apr. 30
May 5	Road Oil—Hartford, Conn. Adv. Apr. 30.	Apr. 30
May 5	Road Materials—St. Paul, Minn.	Apr. 30

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Lackawanna—Plans water plant, to exceed $50,000.

Ind., Marion—Soon takes bids 8,000 ft. rein.-con. mains in various streets. C. Hamilton, city clk.

Mich., Clawson—Made plans 100,000 gal. flat bottom steel tank, 500 gal. per minute centrifugal pump, 21 x 36 x 36 ft. and 8 x 24 x 30 ft. timber buildings for tank and pumps respectively. N. H. Huntley, Clawson, engr.

Ill., Jerseyville — Making preliminary plans 7 to 8 mi. 4 and 6 in. c.i. mains, etc., in various streets. $75,723. A. H. Beard Co., 616 Title Guaranty Bldg., St. Louis, Mo., engrs.

Ill., Morton—Making plans extending 4- to 8-in. c.i. mains in various streets. $25,000. Holbrook, Warren & Van Praag, 416 Millikin Bldg., Decatur, consult. engrs.

Ill., South Pekin—Making plans waterworks improvements, incl. new pumping station, elevated steel tank and distribution system. $60,000. Holbrook, Warren & Van Praag, 416 Millikin Bldg., Decatur, consult. engrs.

Ill., Whitehall—Voted $58,000 bonds, extending waterworks.

Wis., Cobb — Voted $15,000 bonds for waterworks. W. W. Kolb, village clk.

Wis., Waupaca — Soon takes bids 900 g.p.m. water pump. F. A. Houseman, city clk.

Ia., Diagonal — Soon takes bids new waterworks, incl. pumping equipment, mains, etc. $24,000. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, Mo., engr. Noted Jan. 15.

Ia., New Albin—Voted $23,000 bonds for waterworks pumping equipment, distribution mains, etc. H. R. Green Eng. Co., Bever Bldg., Cedar Rapids, engr.

Kan., Arkansas City — Voted $65,000 bonds, for 24 in. c.i. flow line from city wells along Arkansas River to city pumping station and reservoir. Noted Mar. 19.

Kan., Aurora—Defeated $27,000 bonds for waterworks and distribution system. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, Mo., engrs. Noted Apr. 2.

Kan., Norcatur—See "Contracts Awarded."

Tex., Flatonia—Voted $30,000 bonds for waterworks. Noted Mar. 12.

Tex., Lamesa—Plans 4.5 mi. water mains and 3.5 mi. sewers in various streets. $15,000 and $17,000 respectively. Hawley & Roberts, Ft. Worth, engrs. Noted Feb. 5 and 12.

Tex., Temple — Voted $50,000 bonds, waterworks improvements, incl. mains, new pumping equipment, etc. Engineer not selected. Noted Mar. 19.

Okla., Altus—City Council retained Barham Eng. Co., consult. engrs., Gumbel Bldg., Kansas City, Mo., to make surveys and investigations for permanent water supply. $400,000-$800,000. Noted Apr. 16.

Okla., Marland—Voted $20,000 bonds, for waterworks, incl. well, deep well pump, tank on tower, mains, etc. Noted Oct. 9.

Okla., Tulsa—Voted $500,000 bonds, completing Spavinaw water system and also provide $150,000 for main extensions within city. Holway Eng. Co., Wright Bldg., engrs. Noted Apr. 2.

Calif., Brentwood—Plans water system $20,000.

Calif., Burlingame—Making surveys improving and extending water system for fire protection. $175,500. C. A. Torello, city engr.

Calif., Byron—See "Unclassified."

Calif., Chowchilla—Plans election $25,000 bonds to purchase, improve and extend privately owned waterworks.

Calif., South Gate—Plans election $181,000 bonds of which $125,000 is to purchase privately owned waterworks, and balance for extensions.

Ont., Hamilton — Plans increasing capacity of pumping station at Burlington and Gage Aves. from 20 m.g. to 68 m.g. per day. $100,000. W. L. McFaul, city engr.

Ont., North Bay—Plans 12,000 ft. 4 and 6 in. c.i. mains in various streets. $30,000. F. G. Mackie, city engr.

Ont., Welland — Made plans concrete, brick and steel filtration plant, electric pumps, four 1,500,000 gal. filters, 1,500,000 gal. rein.-con. reservoir. $300,000. W. Chipman, Mail Bldg., Toronto, engr.

BIDS DESIRED

N. H., Jaffrey—May 12, by Com. Additional Water Supply, Selectmen's office, East Jaffrey, masonry dam on Mead Brook. Contr. A. and c.i. pipe line connecting existing mains at Jaffrey Center. Contr. B. Sanborn & Bogert, 30 Church St., New York City, consult. engrs.; adv. E. N.-R. Apr. 30.

Mass., Reading — May 1, by Bd. Pub. Wks., Municipal Bldg., storm water drainage works. $15,000. Barbour & Dixon, Tremont Bldg., Boston, engrs.

N. Y., Brooklyn—May 4, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Ave. I, 9th and Hegeman Aves., 53rd and East 98th Sts., here.

N. Y., Brooklyn—May 5, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Autumn, Bedford and Belmont Aves., etc., here.

N. Y., Long Island City—May 4, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Arrandale Pl., Parsons Blvd., 78th Rd., 160th, 162nd, Juno and Nansen Sts., Congress, Herrick, Pleasant View, Stafford and Townsend Aves., here.

N. J., Ridgewood — May 19, by Village Comrs., Town Hall, deep well and pumping system. E. J. Fort, village engr.; adv. E. N.-R. Apr. 30.

Md., Baltimore—May 6, by Bd. Awards, 3 Venturi meter tubes and special registers to Water Dept., f.o.b. Baltimore. V. B. Siems, City Hall, water engr.

La., Bossier City — May 8, by Town Council, 100 ft. 10 in., 6,470 ft. 8 in., 6,570 ft. 6 in., 18,256 ft. 4 in. and 4,700 ft. 2 in. c.i. pipe, 15,717 lb. c.i. specials, 30 x 56 ft. pumphouse, 150,000 gal. reservoir, 100,000 gal. tank on 125 ft. tower. E. T. Archer & Co., Shreveport, and New England Bldg., Kansas City, Mo., engrs.

La., Donaldsonville—May 13, by Bd. City Comrs., filtration plant, tower and settling tank, reservoir, pumps, etc. $50,000. J. W. Billingsley, Interstate Trust Bldg., New Orleans, consult. engr. Noted Apr. 23.

O., Columbus — May 9, by Bd. Comrs. Franklin Co., 8,900 ft. 6 in. and 3,500 ft. 8 in. mains in Impvt. 5, Sewer Dist. Truro 1, Contr. 45.

Ill., Quincy — May 28, by Waterworks Comn., 314 Main St., concrete roof and concrete or gun lining, etc., for high service reservoir. W. R. Gelston, Mgr.; adv. E. N.-R. Apr. 30.

Waterworks (Continued)

Ill., Winthrop Harbor—May 4, by Bd. Local Impvts., mains in 11th St. and College Ave. $7,975 and $2,750 respectively. J. P. Anen, pres.; adv. E. N.-R. Apr. 30.

Wis., De Pere—May 7, by M. J. Maes, secy. Bd. Water Comrs., pumping station, 100 g.p.m. motor driven centrifugal pump with automatic starter and switchboard, etc. W. G. Kirchoffer, 22 North Carroll St., Madison, engr.

Wis., Milwaukee—May 5, by Central Bd. Purchases, D. W. Hoan, chn., approximately 195,978 tons plain and lugged c.i. pipe, etc.

N. D., Parshall—May 4 (extended date), by City, one Gould centrifugal pump and 40 hp. motor for 110 volt D.C. A. O. Fugile, city aud. Noted Apr. 23.

Ark., Magnolia—Taking bids 41,754 ft. 4- to 6-in. c.i. and 10,550 ft. 2 in. galvanized pipe, 21,620 lb. c.i. specials, 14 c.i. wet connections, etc. E. T. Archer & Co., 612 New England Bldg., Kansas City, Mo., engrs. Noted Dec. 4.

Okla., Wewoka—May 5, by D. R. Fraser, city clk., waterworks extensions and small concrete dam across Wewoka Creek, 37,910 ft. 4- to 8-in. c.i. pipe, etc. $50,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 16.

BIDS RECEIVED

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, 7,380 lin.ft. 56 in. Mammerweld or lock bar steel pipe or 60 in. riveted steel pipe, etc., in Arlington and Somerville, from C. & R. Constr. Co., 67 Harrison St. E., West Roxbury, $205,775. Noted Apr. 16.

O., Cleveland—Cuyahoga Co., 6,800 ft. 12 in. c.i. mains in Impvt. 81, from Gantone Constr. Co., Columbia Bldg., $33,778; 6,759 ft. 6 and 8 in. c.i. mains in Impvt. 354, from A. Marra Constr. Co., Ulmer Bldg., $16,852. Noted Apr. 9.

CONTRACTS AWARDED

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc. in Amsterdam, 3rd and 11th Aves., to Knight & DeMicco, 448 East Tremont Ave., $62,526. Noted Apr. 23.

La., Lafayette—See "Streets and Roads."

O., Garfield Heights (Cleveland P. O.)—Village, c.i. mains in 2 streets to D. N. Zullo, 706 The Arcade, Cleveland, $14,451; 1 street, to McMahon Constr. Co., 12717 Arlington Ave., Cleveland, $4,308. Work involves 6,000 ft. 6 in. c.i. pipe. Noted Apr. 9.

O., Girard—Filtration plant and installing most equipment, to Burnip Constr. Co., Girard, $42,700; pumps to Buffalo Pump Co., 490 Bway., Buffalo, N. Y., $1,650. Engrs. est. $50,000.

Mich., Iron Mountain—Bd. Water Comrs., 90 tons 6 in. c.i. pipe, to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., $49.75 per ton.

Wis., Cambria—City, c/o H. C. Davis, city clk., laying water and sewers in various streets, to Rebbens Bros., Mayville, $22,919; 2 disposal plants, pumping station, reservoir, tank, etc., to C. H. Phillips, Keyes Ave., Madison, $8,400; pumps to Amer. Well Works, Aurora, Ill., $2,195; tank and tower to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago, Ill., $56,275; meters, to Neptune Meter Co., 565 Washington Bldg., Chicago, Ill., $1,260. Noted Jan. 8.

Wis., New Holstein—L. W. Hipke, village clerk, to P. Becker, New Holstein, constructing reservoir, excav. at $1.95 per cu. yd., reinforcing steel at $0.03 per lb., concrete at $17.50 per cu.yd.; to Indiana Air Pump Co., 812 Indiana Pythian St., Indianapolis, Ind., centrifugal pump and motor also air lift equipment and motor, $4,437. Noted Mar. 19.

Kan., Norcatur — Tank on tower, distribution mains, etc., to G. B. Morrish, Oberlin, $30,875. Wells and pumps to be let separately. Noted Apr. 2.

Tex., Houston—City, c/o O. F. Holcombe, mayor, 30,000 gal. rein.-con. collecting tank, to A. M. Arnold, 601 Keystone Bldg., $15,-424. Engrs. est. $20,000. Noted Jan. 29.

Colo., Salida—For reservoir repairs, 4- to 8-in. c.i. main extensions, etc., in various streets, to Bateman Hardware Co., Salida, $87,000.

Calif., Corona—Parkridge Country Club, combination reservoir, approximately 9 mi. 1.5- to 8-in. mains and 100,000 gal. swimming pool, to S. Smith, 2025 Bay St., Los Angeles, approximately $40,000.

Calif., Glendale — City will install c.i. mains in Verdugo Canyon Rd., Hillside Dr., portions of Palmer, Magnolia and Acacia Sts., etc., by day labor. $35,850.

Calif., Nuevo—Nuevo Gardens Co., one 1,000 bbl. tank, pump with motor and 3.5 mi. 3.5- to 6-in. diam. pipe line, to S. Smith, 2025 Bay St., Los Angeles, approximately $17,500.

Calif., South Pasadena — City Trustees reconstructing Garfield Ave. reservoir, approximately 1,100 cu.yd. rein.-con. walls, etc., to J. S. E. Houk, Washington Hotel, Culver City, $53,178. Noted Apr. 16.

Ont., Toronto—York Twp., 40 Jarvis St., 6- to 12-in. c.i. pipe, to Natl. Iron Corp., foot Cherry St., $27,200; lead pipe to Canada Metal Co., 39 Fraser St., $16,364; hydrants to Bowden Machine Co. Ltd., Sterling Rd., $4,550; check and stop valves, to Drummond McCall & Co. Ltd., 373 Front St. E., $1,312.

Sewers

PROPOSED WORK

Mich., Detroit — Dept. Pub. Wks. made plans 2,748 ft. 12- to 18-in. vitr. pipe in Lateral 4329; 8,060 ft. 12- to 30-in. vitr. and 126 ft. 3 in. brick cylinder in Lateral 4334; 349 ft. 12- to 15-in. Lateral 4337; 3,649 ft. 12- to 24-in. Lateral 4338; 1,415 ft. 12- to 18-in. Lateral 4350; and 7,568 ft. 12- to 24-in. Lateral 4351. G. Jerome, city engr.

Mich., Detroit—Dept. Pub. Wks. making plans 3,273 ft. Livernois-Curtis Arm, Sect. 1, of Six Mile Rd. Sewer, 2,663 ft. 6 ft. 3 in. and 589 ft. 3 ft. 6 in. cylinder in Livernois and Curtis Aves.; 5,743 ft. Livernois-Curtis Arm Sect. 2, of Six Mile Rd. Sewer, 1,452 ft. 4 ft. 6 in., 1,332 ft. 4 ft. and 2,464 ft. 3 ft. 6 in. cylinder in Curtis Ave.; 1,970 ft. 14th Ave. Arm sewer, 2,820 ft. Waveney Ave. Arm of Ashland Ave. Sewer in Waveney Ave., 900 ft. 5 ft., 1,084 ft. 4 ft., and 616 ft. 3 ft. cylinder, also 155 ft. 8 in. and 65 ft. 15 in. crock connections; 3,353 ft. Waveney Ave. Arm of Bedford Rd. Sewer, 300 ft. 5 ft. 6 in., 1,226 ft. 4 ft. 9 in., 1,633 ft. 3 ft. 9 in. cylinder. G. Jerome, city engr.

Ill., Vandalia—Made plans 36,000 ft. 8 and 12 in. vitr. clay sewers, etc., in various streets. $54,487. A. H. Beard Co., 616 Title Guaranty Bldg., St. Louis, Mo., engrs.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., made plans brick and concrete booster stations, with centrifugal pumps or sewage ejectors, one at 41st St. and Park Hill Ave., and one at Lake Dr. and Fairmount Ave. $20,000 each. T. C. Hatton, c/o owner, engr.

Tex., Flatonia—Voted $40,000 bonds for sewerage system. Noted Mar. 12 under "Waterworks."

Tex., Lamesa—See "Waterworks."

Tex., San Angelo—Voted $275,000 bonds, sewage disposal plant. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Mar. 26.

Okla., Muskogee—Making surveys 25,000 ft. 8- to 15-in. vitr. clay sewers, etc., in Dists. 88, 89 and 90. $27,000. J. R. March, Muskogee, engr.

Okla., Westville—Election in May $25,-000 bonds for 11,000 ft. 6- to 12-in. vitr. clay sewers in all streets. Noted Jan. 8.

Calif., Long Beach — Made plans 55,839 ft. 8- to 12-in. cement sewers, etc., Pump Dist. 9. To exceed $80,000. C. F. Smith, 504 City Hall, San Francisco, engr.

Calif., North Sacramento — Made plans 62,700 lin.ft. 6- to 15-in. vitr. sewers, etc. in various streets. C. C. Kennedy, Call Bldg., San Francisco, engr.

Calif., Oakland—City Council soon takes bids Elmhurst Storm sewer and extensions, approximately 2 mi. 21- to 48-in. rein.-con. pipe, etc. $380,000-$400,000. W. W. Harmon, city engr.

Calif., Petaluma—Plans sewage treatment plant. Will probably vote bonds to exceed $50,000 to finance same.

Calif., San Leandro—Making plans 1,495 ft. 8- to 18-in. vitr. sewer in East 14th St. between Oakes Blvd. and San Leandro Creek. F. A. Nikirk, city engr.

Calif., Ventura—Making plans extending sewers in various streets. $125,000-$150,-000. C. W. Pierce, city engr.

Ont., London — Making plans rein.-con. sewage disposal plant, High St. $60,000. W. P. Near, city engr.

Ont., Mt. Dennis—York Twp., 40 Jarvis St., Toronto, made plans 15 mi. 8- to 30-in. concrete, rein.-con. and vitr. clay sewers in Mt. Dennis Dists. $470,835. F. B. Goedike, 40 Jarvis St., Toronto, twp. engr.

Ont., Ottawa—Plans 6,090 ft. 18 in. vitr. tile sewers in Harmer Ave., et al. $28,000. A. F. Macallum, city engr.

Ont., Toronto—East York Twp., Sammon Ave. Municipal Yard, plans 1,065 ft. 24 and 27 in. rein.-con. sewer in Mortimer Ave. $41,085. G. R. Jack, twp. engr.

Ont., Toronto—York Twp., 40 Jarvis St., plans 4,400 ft. 43- to 54-in. rein.-con. trunk sewer in Fairbank Dist. $125,000. F. B. Goedike, twp. engr.

Ont., Toronto—York Twp., 40 Jarvis St., making plans 11,460 ft. vitr. tile and concrete sewers in Gloucester Grove, Raglan Rd., Lauder, Heathdale, Cloveley, Bude, Belvidere, Lanark and Schrader Aves. $80,-000. F. B. Goedike, twp. engr.

BIDS DESIRED

N. Y., Lackawanna—May 9, by City, at Chamber of Commerce, City Hall, sewage disposal plant and pump station. F. K. Wing Co., 1314 Prudential Bldg., Buffalo, engrs.; adv. E. N.-R. Apr. 30.

N. Y., Long Island City—May 7, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sanitary sewers in 132nd St. (Atfield Ave.), Horstman and Baker Aves., 150th St. (Stanley Ave.) from 133rd St. (Nebraska Ave.) to 132nd St. (Atfield Ave.), and 150th St. (Stanley Ave.) from 133rd St. (Nebraska Ave.) to 134th St. (Baker Ave.).

Pa., Ardmore — May 14, at Commissioners Office, Lower Merion Twp., sewage pump and motor and removing existing gas engine, pump, etc., at Mill Creek Sewage Pumping station. Albright & Mebus, 1502 Locust St., Phila., civil engrs.; adv. E. N.-R. Apr. 30.

Pa., Phila.—May 5, by Dept. Pub. Wks., Bureau Engineering, main sewer in Castor, Magee, Summerdale, Comly and Loretto Aves.; branch sewer in Mermaid Lane, Frankford, Cedar Park, Cheltenham, Erie, Hunting Park, Summerdale, Ryan, Sedgley, Torresdale and Wayne Aves., Jackson, Balfour, Bleigh, Cadwallader, Coleman, Cottage, Crittenden, "N." 20th, Princeton, Rutland and Wakeling Sts.

La., Bossier City—May 8, by Town Council, 25,304 ft. 8 in., 7,224 ft. 10 in., 1,090 ft. 15 in., 84 ft. 8 in., and 310 ft. 10 in. vitr. sewers, etc., in various streets. E. T. Archer & Co., Shreveport, and New England Bldg., Kansas City, Mo., engrs.

O., Columbus — May 9, by Bd. Comrs. Franklin Co., 14,330 ft. 8 in. vitr. sewers, etc., in Impvt. 60, Sewer Dist. Clinton 2. Contr. 60.

Ill., Lake Forest—May 15, by City Clerk, 6,020 ft. 6- to 12-in. tile sewers in Hield-Lake Forest Ravine Park. $25,000. N. N. Campbell, 4 Market Sq., engr.

Wis., Milwaukee—May 8, by Sewerage Comn., 4,021 ft. 21 in. and 281 ft. 18 in. terra cotta pipe, etc., for Menomonee Low Level sewer.

Minn., Isanti — May 12, by G. H. Chalmers, city clk., sanitary sewers in various streets, Schedule 1, 1,010 ft. 8 in., 620 ft. 10 in., 5,150 ft. 12 in. pipe, 9 standard and 13 special manholes, etc.; Schedule 2, 9,350 ft. 8 in., 2,400 ft. 10 in., 5,150 ft. 12 in. pipe, 37 standard and 9 special manholes, etc. $25,000-$30,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Ark., Ft. Smith—May 5, by T. A. Norris, judge Sebastian Co., new sewage pumping station at County hospital, incl. 3,660 ft. 6 in. c.i. and 375 ft. 8 in. vitr. clay pipe, one 250 g.p.m. pump, driven by 15 hp. motor, etc. $28,000. W. L. Winters, 311 Merchants Natl. Bank Bldg., engr.

Ark., Magnolia — May 12, by Bd. City Comrs., sewers in Impvt. Dist. 1, 36,435 ft. 0 to 6 in. trenching and back fill, 19,055 ft. 6- to 18-in. cut, 41,345 ft. vitr. clay, and 14,085 ft. 8- to 10-in. c.i. pipe, 2 disposal plants, Imhoff tanks, etc. E. T. Archer, New England Bldg., Kansas City, Mo., engrs. Noted Aug. 7.

Tex., Dallas—A. Blaylock, mayor, and A. E. Kingsley, city engr., taking bids pumping station, Birmingham St. $70,000.

Okla., Wewoka—May 5, by D. R. Fraser, city clk., disposal plant extending sanitary sewerage system, and new outfall sewers, etc., in various streets, incl. 11,600 ft. 8- to 15-in. vitr. clay pipe, Imhoff tank and sludge bed. $54,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 5.

Calif., Claremont—May 7, by City Trustees 46,410 ft. 6- to 10-in. cement sewers in various streets. O. A. Gierlich, First Natl. Bank Bldg., Monrovia, engr.

Calif., Ojai—May 25, by L. D. Conklin, city clk., Imhoff tank and sprinkling filter complete except filtering rock; secondary tank and sludge beds with connecting drains; 1,300 ft. 10 in. vitr. pipe, one 90 ft. wooden trestle, for sewage treatment plant, etc.

Calif., Palo Alto — City Council taking bids sewers in Oregon Ave. and Seale D. D., 19,347 ft. 12- to 27-in. concrete pipe, 54 catchbasins, etc.; also in South Palo Alto Dist., 20,000 ft. 6 and 8 in. vitr. pipe, etc. J. F. Bxybee, Jr., city engr.

Calif., Santa Barbara—City Council taking bids rein.-con. storm drain and concrete box culverts, etc., in portions of Laguna St., etc. (East Side Drainage Project). To exceed $100,000. G. D. Morrison, city engr.

Ont., Elmira—May 9, by J. H. Ruppel, town clk., sewage disposal plant, rein.-con. septic tanks. $35,000. H. Johnston, 62 Frederick St., Kitchener, engr.

BIDS RECEIVED

Mass., Boston — Dept. Pub. Wks., City Hall, sewerage works in Cambridge and Court Sts., from C. & R. Constr. Co., 67

Sewers (Continued)

Harrison St. E., West Roxbury, $81,200. Noted Apr. 16.

Mass., Needham—Sewers in Sect. 1 from General Constr. Co., 115 Kittredge St., Rosindale, $53,000; Sect. 2, from L. Balboni, 419 Belgrade Ave., Rosindale, $34,000. Noted Apr. 16.

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, Apr. 22 (**e. e. means engineer's estimate**), sewers in Elmwood Ave., from A. W. Matarazzo, 74.23% e. e. $11,518; 8th St., from Standard Constr. Co., 705 Park Ave., 68% e. e. $8,125; in Maple St., from R. Iovino, 81.25% e. e. $4,060. Noted Apr. 16.

CONTRACTS AWARDED

Massachusetts—Metropolitan Dist. Co., 1 Ashburton Pl., Boston, in Mill Brook Valley Sewer, Sect. 78 North Metropolitan System in Arlington and Medford, 3,325 ft. pipe, to A. Barriffaldi, 52 Powder House Blvd., Somerville, $110,235. Noted Apr. 9.

O., Cincinnati—City, 960 ft. 12 and 24 in. vitr. clay, and 1,230 ft. brick sewer in Davis Lane between Robb St. and point 1,230 ft. south, to T. Maloney, 1858 Taft Rd. $20,063. Engrs. est. $26,900. Noted Apr. 23.

O., Cleveland—Cuyahoga Co., 12,200 ft. 8- to 12-in. tile sewer in Impvt. 304, to Hadded-Mall Co., Schofield Bldg., Cleveland, $26,384. Noted Apr. 23.

Mich., Grand Rapids—Sewers in Michigan St. and Fuller Ave., to J. Brogan & Son, Green Bay, Wis., $49,763.

Wis., Cambria—See "Waterworks."

Mo., Kansas City — Sanitary sewer in Div. 6, to T. P. Thompson, 3908 Forest Ave., $27,400.

Wash., Yakima — Sewerage system northwest section of city, incl. modern addition, to McHugh & Colucclo, $86,716. Engrs. est. $90,000.

Calif., Oakland—For vitr. and concrete outfall sewer in 7th St., to J. Currie, 1100 Peninsula Ave., Burlingame, $198,634. Noted Apr. 23.

Calif., Oakland—For 8 in. vitr. sewer in portions of Laurel and Maple Aves., etc., to W. J. Tobin, 527 Santa Ray Ave., $41,560.

Calif., San Diego—A. H. Wright, city clk., 18,155 ft. 6 and 8 in. concrete sewers in South LaJolla St., to J. N. Chandler, 4067 Van Dyke St., $27,417. Noted Apr. 16.

Calif., San Fernando—City Trustees, concrete main outfall sewer, complete Imhoff tank and sprinkler filter sewage disposal work, to M. Matich, 1436 West 15th St., Los Angeles, $39,181. Noted Apr. 9.

Ont., Toronto—For 3,000 lin.ft. 8 in. vitr. tile to 30 in. rein.-con. sanitary and trunk sewers in Strachan Ave. to T. C. Agnew, 350 Concord Ave., $17,270; sewer pumping main in South Parkdale System, also Burnside Dr., to W. E. Taylor, 22 Falcon St., $6,485 and $4,290 respectively; Glen Stewart drainage system, to A. E. Jupp Constr. Co., 170 Berkeley St., $1,358. Engrs. est. $30,000.

Ont., Toronto—York Twp., 3,300 ft. 33- to 42-in. rein.-con. sewer in Oakwood Ave. to Arlington Ave., to W. E. Taylor, 22 Falcon Ave., $45,967. Engrs. est. $50,000. Noted Apr. 16.

Waste Disposal

PROPOSED WORK

Ont., Kingston—Plans garbage disposal plant, concrete and brick. $30,000-$50,000. H. S. Dick, city engr.

BIDS DESIRED

N. Y., Saratoga Springs—May 18, by J. B. White, comr. Accounts, City Hall, garbage incinerator plant. S. J. Mott, 377 Bway., city engr.; adv. E. N.-R. Apr. 30.

Bridges

PROPOSED WORK

Massachusetts — Commonwealth of Massachusetts, State House, Boston, plans new bridge across Charles River between Larz Anderson and Western Ave. Bridges in Boston and Cambridge. $300,000. J. R. Rablin, 1 Ashburton Pl., Boston, engr.

Ala., Decatur—State Hy. Dept., Montgomery, takes bids in May, steel and concrete bridge, Limestone and Morgan Counties, here. $500,000. W. S. Keller, highway engr. Noted Feb. 19 under "Alabama."

Miss., Gulfport—See "Streets and Roads."

Tenn., Nashville — Davidson Co. plans election $1,000,000 bonds for bridge over Cumberland River near Old Hickory Powder plant. L. Hickman, co. judge.

Wis., North Milwaukee — Voted $35,000 bonds, for 3 new bridges. H. C. Webster, 216 West Water St., Milwaukee, engr. Noted Feb. 19.

Wis., South Milwaukee—Voted $25,000 bonds repairing existing bridge and constructing new bridge over Oak Creek. R. J. Schauer, city clk. Engineer not selected.

Kan., Council Groves—See "Streets and Roads."

Kan., Ottawa—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., San Angelo—City and Tom Green Co. voted $20,000 bonds each for steel and concrete bridge. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., San Antonio — Takes bids about June 1, 90 ft. rein.-con. and steel bridge, 4th St. $30,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., engrs.

Okla., Kenton — State Hy. Dept., Oklahoma City, making preliminary plans 14 span 200 ft. pile trestle bridge over Carrizos Creek, Cimarron Co. $45,000. J. M. Page, highway engr.

Okla., Pawhuska—Made plans 3 span 210 ft. steel truss bridge on concrete piers and abutments, at Osage St., 11,400 lb. reinforcing steel, etc. $25,000. W. M. Clark, Pawhuska, engr.

Okla., Tulsa — Park Hill & Park Pl. Impvt. Assn., c/o Hughes Eng. Co., Cole Bldg., making preliminary plans 96 ft. steel bridge on concrete abutments, over Missouri, Kansas & Texas Ry. tracks, at Frisco Ave. $75,000.

Calif., Red Rock—Western Pacific R.R. Co., Mills Bldg., San Francisco, making plans replacing present wooden trestle with 375 ft. steel bridge, here, Lassen Co. H. M. Smitten, bridge engr. for owner.

Calif., San Jose—Made plans rein.-con. girder type bridge over Guadalupe Creek at Julian Ave., 4,880 cu.yd. excav., ninety-two 25 ft. wooden and forty-five 20 ft. concrete piles, 67 tons reinforcing steel, etc. W. Popp, city engr.

Calif., Santa Barbara — Supervs. Santa Barbara Co. take bids about May 4, bridge over Santa Ynez River. $95,000 or more. O. H. O'Neill, Santa Barbara, co. surv.

BIDS DESIRED

N. H., Epsom—May 1, by F. E. Everett, engr. State Hy. Dept., State House, Concord, 80 ft. thru plate girder bridge, here. $25,000.

New Jersey—May 11, by State Hy. Dept., Trenton, 2 rein.-con. bridges over middle and north branches of Forked River, on State Highway Route 4, at M. P. 37.9 and M. P. 38.5, Ocean Co. A. L. Grover, secy.; adv. E. N.-R. Apr. 30.

Pa., Greensburg — May 4, by Comrs. Westmoreland Co., reconstructing bridge over Big Sewickley Creek, at Station of Waltz. W. A. Arter, co. controller.

North Carolina — May 5, by State Hy. Comn., Raleigh, rein.-con. bridges and culverts on State Project 609, Anson Co. $25,000; State Project 105-E, Beaufort Co. $35,100; State Project 128, Edgecombe Co. $25,000; State Project 235, Johnston Co. $45,900; and State Project 283, Wayne Co. $50,250. C. M. Upham, Raleigh, engr.

Ala., Gadsden — June 2, by State Hy. Dept., Montgomery, 12 span 1,325 ft. bridge over Coosa River, here. $350,000. Noted Feb. 19.

Illinois—May 11, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, three 34.5 ft. span rein.-con. girder bridges, Route 1, Sect. 38-V, Johnson Co.; two 30 ft. span rein.-con. slab bridges, Route 3, Sect. 20-B, Stephenson Co.; two 30 ft. girder spans and one substructure for two 160 ft. and one 50 ft. and two 40 ft. girder approach spans, Route 13, Sect. 13-B, Jackson Co.; 3 substructures for three 150 ft. steel spans, and 10 rein.-con. girder approach spans for eight 50 ft. and two 35 ft., Route 31, Sect. 18-B, Fulton Co.; seven 40 ft. span rein.-con. girder bridge, Route 32, Sect. 4-B, Moultrie Co.; one 28 ft. and three 26 ft. span rein.-con. slab bridges, also one 30 ft. and two 40 ft. spans, Route 33, Sect. 6-B, Jasper and Effingham Counties; two 40 ft. span rein.-con. girder bridges, Route 33, Sect. 7-D, Effingham Co.; one 30 ft. rein.-con. girder bridge, Route 39, Sect. 1-B, McLean Co.; one 14 ft. span rein.-con. slab bridge, and one rein.-con. culvert, also substructure for 100 ft. steel span, Route 39, Sect. 2-B, McLean Co.; steel superstructure for 100 ft. span, Route 39, Sect. 2-C, McLean Co.; 2 substructures for two 50 ft. steel and two rein.-con. girder spans, Route 39, Sect. 12-B, Champaign Co.; substructure for 106 ft. steel span, Route 2, Sect. 3-V, Jackson Co.; steel superstructure for two 160 ft. steel span Route 13, Sect. 13-C, Jackson Co.; superstructure for three 150 ft. steel spans, Route 31, Sect. 18-C, Fulton Co., F. T. Sheets, ch. engr.

Minnesota — June 3, by Joint Bridge Com., 1246 University Ave., St. Paul, constructing bridge over Mississippi River, connecting Ford Ave., St. Paul and 46th Ave., Minneapolis. C. M. Babcock, chn.; adv. E. N.-R. Apr. 30.

Tex., Alpine—See "Streets and Roads."

SUBWAY—NEW YORK, N. Y.

Following are lowest three bids opened by Bd. Transportation, 49 Lafayette St., April 3, for part of rapid transit railroad, Sect. 1, Route 78, along and under Central Park West from 68th to 77th Sts., (A) J. F. Cogan Co., Grand Central Terminal (awarded contract); (B) Rodgers & Hagerty, Inc., 70 East 45th St.; (C) G. J. Atwell Co., Inc., 347 Madison Ave. The unit bids are as follows:

	A	B	C
125,500 cu.yd. earth excavation above mean high water	$9.00	$7.50	$9.75
4,600 cu.yd. earth excavation for sewers, ducts and pipes	9.00	7.50	9.75
80,300 cu.yd. rock excavation	12.00	14.70	12.80
150 cu.yd. rock excavation for sewers, ducts and pipes	12.00	14.70	12.80
25 furnishing and setting trees	5.00	100.00	30.00
1,220 lin.ft. removal and restoration of C. P. stone wall fence	5.00	24.50	12.00
31,300 cu.yd. concrete masonry	20.00	22.00	20.00
97,100 sq.ft. rubbing to smooth finish the surface of concrete	.12	.12	.10
3,780 cu.yd. protective concrete masonry	20.00	22.00	20.00
500 cu.yd. rubble stone masonry	10.00	12.00	11.00
25 cu.yd. dry rubble masonry	10.00	10.00	9.00
230 cu.yd. brick masonry	40.00	30.00	40.00
200 sq.yd. vitrified brick lining for sewers	5.00	3.50	7.00
25 cu.yd. hollow terra cotta brick or tile	48.00	35.00	40.00
100 bbl. grout of portland cement	8.00	6.00	6.00
750 sq.yd. plastering on hollow tile	1.00	1.20	1.50
25 cu.yd. broken stone or gravel	4.75	6.00	4.00
15,650 sq.yd. waterproofing one ply	1.00	1.25	.85
19,520 sq.yd. waterproofing, three ply	3.00	2.50	2.20
100 sq.yd. waterproofing, six ply	6.00	4.00	4.00
100 sq.yd. waterproofing, dry ply	1.00	1.00	.55
300 cu.yd. waterproofing, brick in asphalt mastic 1 layer	40.00	45.00	48.00
1,700 cu.yd. waterproofing, brick in asphalt mastic 2 layer	35.00	40.00	48.00
575 lin.ft. 3-in. cast iron pipe and fittings	1.20	1.50	1.25
300 lin.ft. 4-in. cast iron pipe and fittings	1.65	1.75	1.75
1,350 lin.ft. 6-in. cast iron pipe and fittings	2.25	2.00	2.50
2,750 lin.ft. 8-in. cast iron pipe and fittings	4.00	3.00	3.60
20 lin.ft. 10-in. cast iron pipe and fittings	4.50	3.50	5.00
200 lin.ft. 4-in. standard galvanized steel pipe	1.70	1.75	1.70
100 lin.ft. 6-in. standard galvanized steel pipe	3.00	2.50	2.70
45 lin.ft. 8-in. standard galvanized steel pipe	4.00	3.00	4.50
50 lin.ft. 10-in. standard galvanized steel pipe	5.00	3.50	6.50
187,540 duct ft. tunnel ducts	.25	.30	.25
1,185 duct ft. 3-in. fibre conduits	.40	.50	.25
1,970 ton riveted steel	116.00	132.00	120.00
15 W. I. tree guards and gratings	10.00	30.00	70.00
4 ton architectural iron and steel (stairs, ladders, checkered plates, pipe railing, etc.)	400.00	300.00	330.00
450 sq.ft. sliding doors with steel panels	6.00	7.00	5.50
1 counterbalanced emergency exit covers	425.00	500.00	300.00
2,620 ton steel beams and shapes	116.00	132.00	120.00
310 ton steel rods and bars	120.00	110.00	100.00
17 ton miscellaneous iron castings	230.00	150.00	200.00

	A	B	C
1,730 lb. special wire forms	.20	.20	20
9,950 lin.ft. 1½-in. oak or ash hand rail	.75	1.25	40
2,000 sq.ft. horizontal steel grating for ventilation	5.00	3.00	5.00
4,000 sq.ft. vertical steel grating for ventilation	5.00	2.50	5.00
50 sq.ft. vault lights	3.50	4.00	8.50
7,050 sq.yd. sidewalk restored	3.00	2.75	2.00
9,460 sq.yd. roadways restored—asphalt	5.50	4.50	5.50
5,980 sq.yd. roadways restored—Belgian block	5.50	7.00	3.30
3,290 lin.ft. new 6-in. bluestone curb	3.00	2.00	1.70
100 lin.ft. new 8-in. granite curb	5.00	3.50	4.50
10 sq.yd. new sidewalk finish 3-in. thick	3.00	2.00	1.50
1,300 sq.yd. park surface restored	3.00	1.50	2.50
5,000 lin.ft. ¾-in. steel electric conduits	.50	.50	.30
50 lin.ft. 1½-in. steel electric conduits	.60	1.00	.50
4,600 lin.ft. 1-in. steel electric conduits	.50	.75	.40
450 cast iron outlet boxes	2.00	2.00	1.50
10 cast iron pull boxes	6.00	4.00	6.00
135 lin.ft. 6-in. cast iron pipes and fittings "extra heavy"	3.00	2.50	4.20
90 lin.ft. 3-in. cast iron pipes and fittings "extra heavy"	2.00	1.50	2.10
100 lin.ft. 8-in. cast iron pipes and fittings "extra heavy"	4.00	4.00	6.50
100 lin.ft. 12-in. vitrified pipe sewer	5.25	3.00	5.75
400 lin.ft. 20-in. vitrified pipe sewer	10.00	4.50	9.00
30 ton cast iron sewer pipe (straight pipe)	120.00	100.00	90.00
12 ton cast iron sewer pipe (special casting)	225.00	200.00	180.00
5,850 lin.ft. electric (underground trolley) railroad (single track)	10.00	15.00	20.00
100 lin.ft. water pipe 6-in.	1.50	2.00	1.00
1,700 lin.ft. water pipe 12-in.	4.00	3.00	2.20
2,000 lin.ft. water pipe, 30-in.	15.00	6.00	7.50
300 lin.ft. water pipe, 48-in.	20.00	10.00	15.00
5 service connection for water pipe	50.00	15.00	30.00
100 lin.ft. gas pipe, 6-in.	1.50	1.50	1.00
100 lin.ft. gas pipe, 8-in.	2.00	2.00	1.50
200 lin.ft. gas pipe, 10-in.	3.00	2.50	1.90
1,200 lin.ft. gas pipe, 20-in.	10.00	5.00	4.60
3,500 lin.ft. by-passing pipe, 10-in. steel	15.00	9.00	11.00
20 lin.ft. by-passing pipe, 16-in. steel	20.00	15.00	14.00
3,000 lin.ft. by-passing pipe, 20-in. steel	30.00	15.00	18.00
300 lin.ft. by-passing pipe, 16-in. steel on trestle or cable	20.00	15.00	16.00
200 lin.ft. cable suspension to support by-passing pipe 16-in. or under in dia.	15.00	10.00	11.00
5 service connection for gas pipes	50.00	20.00	30.00
350 ton new cast iron hub and spigot pipe, straight	100.00	70.00	65.00
150 ton new cast iron hub and spigot pipe, special castings	200.00	150.00	140.00
28,000 duct ft. electric ducts and conduits	.40	.50	.25
100 lin.ft. steel pipe electric ducts and conduits, 2½-in.	1.50	1.00	.70
500 lin.ft. steel pipe electric ducts and conduits, 3-in.	2.00	1.25	.90
2,000 lin.ft. steel pipe electric ducts and conduits, 3½-in.	3.00	1.50	1.20
100 lin.ft. steel pipe electric ducts and conduits, 4-in.	3.50	1.75	1.50
5 service connections for electric ducts	50.00	50.00	50.00
10 service boxes on relocated duct lines	200.00	50.00	125.00
10 junction boxes on relocated duct lines	250.00	250.00	250.00
10 additional junction boxes on relocated duct lines	600.00	400.00	350.00
Extended totals	$4,199,876	$4,286,445	$4,302,423

Bridges (Continued)

Tex., Anson—See "Streets and Roads."

Tex., Sweetwater — See "Streets and Roads."

Tex., Sweetwater — May 8, by A. S. Mauzey, judge Nolan Co., concrete and pile trestle bridges and culverts on State Highway 70. $30,000. Former bids rejected. J. A. Focht, Sweetwater, co. engr. Noted Apr. 30.

Oklahoma—May 5, by State Hy. Dept., Oklahoma City, 3 span 140 ft. concrete bridge at Kingfisher, Kingfisher Co. $32,000, and 2 span 100 ft. concrete bridge at Weleetka, Okfuskee Co., $26,000. J. M. Page, highway engr.

Ore., Portland — May 26, by Comrs. Multnomah Co., Court House, constructing Ross Island Bridge, over Williamette River, G. Lindenthal, 250½ 3rd St., consult.-engr.; adv. E. N.-R. Apr. 30.

Calif., Los Angeles—May 11, by Bd. Pub. Wks., 24 span, 1,274 ft. concrete bridge at Macy St., 13,600 cu.yd. concrete, 1,450,000 lbs. reinforcing, etc. $500,000. M. Butler, City Hall, engr. Noted Oct. 16.

BIDS RECEIVED

O., Dayton — Dept. Pub. Serv., Island Park Bridge over The Great Miami River, at Helena St., from G. Wiley, Arcade Bldg., Dayton. $171,192. Engrs. est. $200,000. Noted Mar. 26.

Tex., Karnes City — See "Streets and Roads."

Tex., Palestine—See "Streets and Roads."

California—State Hy. Comn., Sacramento, for eight 54 ft. span bridge on concrete piers, 40 ft. roadway, two 6 ft. sidewalks, etc., over San Gabriel River, Los Angeles Co., from C. Steffgen, Spreckles Bldg., San Diego, $92,575. Noted Apr. 2.

CONTRACTS AWARDED

Pa., Phila.—Delaware River Bridge Joint Comn., 806 Widener Bldg., 720,000 lin.ft. steel reinforcing trusses, Contr. 21A, to Rivet Grip Steel Co., c/o Amer. Steel Eng. Co., 10 South 18th St., $144,000. Noted Apr. 23.

Pa., Phila. — Dept. Pub. Wks., Water Bureau, Contr. 746, to A. P. Smith Mfg. Co., Norman St., East Orange, N. J., $16,119; Contr. 749, to M. and J. B. McHugh, 892 North Markoe St., $5,625; Contr. 451, to Acme Machine Co., 316 North 17th St., $6,700. Noted Apr. 23.

Alabama—See "Streets and Roads."

Alabama—State Hy. Dept., Montgomery, several concrete and steel bridges on Montgomery-Birmingham Ry., Autauga and Montgomery Counties, to J. A. Pigford, Russel, Miss., $68,497. Engrs. est. $70,000.

Ia., Des Moines—See "Streets and Roads."

Ia., Nevada—Story Co., one 3 span plate girder and one 60 ft. pony truss bridges, also 6 box culverts, to H. T. Stillman, Ames, $37,940; grading 16,500 ft. Richland-Sherman Rd., to Allison & McNace, Boone, at $0.277 per cu.yd.

Ia., Primghar—O'Brien Co., 5 I-beam and 3 Pony Truss bridges, to H. Enterline, Rock Rapids, $23,305; 3,960 ft. 12- to 18-in. culvert pipe, to Sibley Cement Co., Sibley, $2,622; 41,772 cu.yd. excav., to C. W. McNamara, Sioux Falls, S. D., $9,733; 4,080 ft. 6 in. and 1,800 ft. 8 in. tile drain, to N. H. Nelson, Sanborn, $808; 16 box culverts and extensions, to Jensen Bros., Thompson, $3,106; 21 box culverts, to Borgie & Groth, Sioux Center, $15,650.

Kan., Eldorado—Butler Co., 7 concrete culverts on Rice Hill Rd., to A. M. Fisher, Douglas, $3,865, 8 culverts on DeGraff-Potwin Rd., to Lewis & Schide, Eldorado, $3,953, 22 culverts, to F. Grundeman & Sons, Netawaka, $7,705, 10 culverts on Latham Rd., to I. F. Sawyer, Leon, $3,911, 8 culverts on Leon-Atlanta Rd., to J. S. Kiser & Sons, Leon, $1,958; 1 bridge, to T. E. Luttgerding, Eldorado, $932.

Kan., Newton—A. Martin, city clk., five 40 ft. deck girder arches over Sand Creek, at Bway. Ave., 75,692 lb. reinforcing, etc., to Yancey Constr. Co., Abilene, for City and Harvey Co. $24,964. Noted Apr. 9.

Wyo., Big Piney — State Hy. Comn., Cheyenne, several 23 to 69 ft. span bridges, here, to Swenson-Willard Lumber Co., Laramie, $15,580. Engrs. est. $25,000. State to furnish treated timber. Noted Apr. 9.

Tex., Albany—See "Streets and Roads."

Tex., Henrietta — See "Streets and Roads."

Tex., Houston—See "Streets and Roads."

Tex., Rockport — See "Streets and Roads."

Tex., Sonora—See "Streets and Roads."

Tex., Sweetwater — See "Streets and Roads."

Tex., Sweetwater — Nolan Co., A. S. Mauzey, judge, 4 large concrete girder bridges on concrete pile trestle foundations, 172,359 lb. reinforcing, 2,764 ft. piling, etc., on State Highway 1, Federal Aid Project 444-D, to Hannah Constr. Co., Box 994, Waco, $43,379. Engrs. est. $51,466.

California — State Hy. Comn., Sacramento, 180 ft. rein.-con. bridge, 30 ft. over San Juan Creek, Orange Co., to Stevens Bros. & Haas, Lomita, $25,577. Noted Apr. 2.

Railways

PROPOSED WORK

Ohio—Cleveland Ry. Co., G. L. Radcliffe, genl. mgr., Hanna Bldg., Cleveland, plans renewing street car tracks, new rails, wood ties, concrete foundation and granite block surface, incl. 54,283 ft. single track on Detroit, Euclid, Lorain, Mayfield, Prospect and Woodland Aves., in Cleveland. $635,129. D. Clark, c/o owner, engr.

BIDS RECEIVED

California — Bd. Pub. Wks., San Francisco, track work and paving Ocean View line extension to municipal railway in San Francisco, for City and San Francisco Co., from Eaton & Smith, 715 Ocean Ave., San Francisco, $101,854.

CONTRACTS AWARDED

Ontario—Ontario Hydro Comn., A. Beck, chn., London, will double track sections of Windsor Electric Ry., in Windsor, by day labor under supervision of T. U. Fairlie, engr., 190 University Ave., Toronto. $50,000.

Ontario—Toronto Transportation Comn., Yonge and Front Sts., Toronto, will build 800 ft. double track electric street railway loop at Christie and Dupont Sts., in Toronto, by day labor. $40,000. D. W. Harvey, ch. engr.

Alberta—Canadian Pacific Ry., Windsor Sta., Montreal, Que., will build 25 mi. railroad between Kipp and Turin, here, by day labor. $1,000,000. J. M. R. Fairbairn, ch. engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

La., Plaquemine — Atchafalaya Basin Levee Dist. plans levee work from Manchac Point to Medora, Iberville Parish, 100,000 cu.yd. excav.

Calif., Ravendale—Red Rock Irrigation Dist. plans election $442,000 bonds for irrigation works, incl. storage dam, conduit canal system, etc. T. H. Means, 369 Pine St., San Francisco, engr.

Calif., Richmond—Making plans dredging inner harbor No. 2, 120,000 cu.yd. excav. E. A. Hoffman, city engr.

Ont., Toronto — Harbor Comrs. plan to expend $329,000, dredging work in harbor. J. R. Wainwright, Harbor Bldg., engr.

BIDS DESIRED

Conn., Hartford—May 10, by C. M. Dahill, secy. Bd. Contr. & Supply, 950 ft. rein.-con. conduit 7 x 7 ft., to form confined channel for Gully Brook. $30,000. R. N. Clark, city engr. Noted Apr. 23.

Neb., Columbus—May 6, by Oconee D. D., approximately 3 mi. drainage work, 122,388 cu.yd. excav., in Lost Creek. $31,000. F. Gottschalk, Columbus, engr. Noted Jan. 1.

British Columbia — May 5, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., dredging in Courtenay River, here.

CONTRACTS AWARDED

Miss., Cleveland — Clear Creek D. D., Bolivar Co., rejected bids Apr. 10, 210,025 cu.yd. excav., etc., in Ditch A, and will complete same with floating dredge already built on jobs; 11,600 cu.yd. excav., etc., in Ditch C, to G. S. Funk, Shelby, at $0.225 per cu.yd. Noted Mar. 26.

Calif., Los Angeles—Pacific Natl. Bank, excavation for 8 story and basement, 95 x 166 ft., brick and steel bank, 9th and Hill Sts., to Harvey Bros., 1631 South Soto St., at $0.72 per yd. Noted Apr. 16 under "Buildings—Commercial."

Streets and Roads

PROPOSED WORK

New Hampshire—State Hy. Dept., Concord, plans asphalt paving 19,982 sq.yd. Daniel Webster Highway, Federal Aid Project 219A, in Boscawen, Merrimack Co. $44,000. E. E. Everett, state engr., and F. W. Brown, div. engr., both c/o owner.

Mass., Beverly (Boston P. O.)—Bd. Aldermen plans improving Schier Rd. and Herrick St.; also widening Cabot St. $25,000. Engineer not selected.

Pa., Sayre—Sayre Boro takes bids in May, curbing, guttering and brick, rein.-con.

Streets and Roads (Continued)

or asphalt paving 29,000 sq.yd. various streets. H. C. Child, boro engr.

W. Va., Fayetteville—Fayette Co. election May 16, $91,000 bonds improving roads in Sewell Mountain Dist. G. H. Siems, Fayetteville, co. engr.

W. Va., Huntington — Cabell Co. plans election $300,000 bonds, improving 10 mi. roads Guyandotte Dist. J. M. Oliver, Huntington co. engr.

W. Va., Pineville — Wyoming Co. voted $121,000 bonds, hard-surfacing Pineville-McDowell Co. line Rd. I. E. Basham, Pineville, engr. Noted Mar. 19.

W. Va., Welch — Plans election $125,000 bonds, for street work and sewers in various streets. L. A. Osborn, Welch, engr.

N. C., Brevard—Plans grading, concrete or asphaltic concrete paving various streets. $90,000. T. M. Mitchell, Brevard, mayor.

N. C., Halifax—Bd. Comrs. Halifax Co., plans to issue $200,000 constructing hard-surface road from Tarboro to Halifax Co. line. H. P. Foxhall, Tarboro, secy. Co. Highway Comn. Noted Apr. 2.

Fla., Palm Beach — Election May 12, $444,000 bonds constructing Rd. 1; $223,000 bonds, Rd. 2, Pahokee to Belleglade; $80,000 bonds Rd. 6, Military Trail and Lake Worth; $150,000 bonds Rd. 3, Canal to Bacoms Pts., $93,000 Rd. 4, Belleglade to Hillsboro Canal Lock, and Rd. 5, Okeelanta to South Bay, all above in Special Road and Bridge Dist. 11. F. C. Fenno, clk.

Fla., Sanford—Seminole Co. plans election $30,000 bonds, constructing 1.85 mi. Leinhart, Bay and Lake Jessup Rd., $60,000 bonds 3 mi. Palm Springs Rd., $35,000 bonds 1.85 mi. Forest City South St. and Melonville Ave., $60,000 bonds 5 mi. Titusville St., $60,000 bonds 5 mi. Oviedo St., $72,000 bonds 6 mi. St. Gertrude Ave., $47,000 bonds 3.8 mi. Longwood-Wagner Sts., $58,000 bonds 4.7 mi. Howell Lake St., $37,000 bonds 3 mi. Brumley St., $27,000 bonds 2.3 mi. Monroe School, Old Monroe and Rand Sidney Sts., $33,000 bonds 2.75 mi. Cameron City St., $45,000 bonds 3.75 mi. Silver Lake-Lehman Sts., $120,000 bonds 10 mi. Longwood-Markham St., $72,000 bonds 5.9 mi. Chulnota-Geneva Sts., $42,000 bonds 3.5 mi. road through Geneva, $62,500 bonds 5 mi. portion of Oveido St., $38,000 bonds 3.1 mi. Sanford and Golf Course Sts., $31,500 bonds 2.5 mi. Orange Blvd., $38,000 bonds 3.2 mi. Sanford, Cemetery and Cameron Aves., $97,000 bonds 4.35 mi. Lake Mary Rd., $140,000 bonds 6.25 mi. Geneva St., $148,000 bonds 6.6 mi. Celery and Forest Sts., $81,000 bonds 3.6 mi. Goldenrod-Maitland Sts., $30,000 bonds 6.48 mi. Brevier-Paola Junction Sts., $30,000 bonds 1.35 mi. Paola and Markham Sts., $40,000 bonds 1.8 mi. Lake Geneva Rd., $105,000 bonds 4.2 mi. Osceola and Lake Mills Rds., $25,500 bonds 1.25 mi. Deep Pocket Rd., $40,500 bonds 1.88 mi. Longwood-Markham and Sanford Cemetery Sts., etc., $38,000 bonds 1.65 mi. Sanford Shore Dr. and Lake Monroe St., and $25,000 bonds 1 mi. Lake Charm Rd. V. E. Douglass, co. clk.

Fla., Wauchula—Hardee Co. election May 11, $255,000 bonds, roads and bridges on Rds. 15 and 16 and $35,000 bonds on 2 mi. Rd. 6-B.

Miss., Meridian—Plans extending pavement 4th St., $30,000; also paving various other streets, $50,000.

Miss., Ripley—Tippah Co. election May 12, $255,000 bonds for North and South Rds.

Miss., Water Valley—Yalobusha Co. election May 2, $365,000 bonds for roads in Dists. 2 and 3.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans improving 4 mi. Knoxville-Georgia Co. line Rd., Knox Co. J. G. Creveling, highway comr.

Tenn., Chattanooga—City and Hamilton Co. plan concrete surfacing highway from Chattanooga to Lookout Mountain. $100,000. E. G. Munell, Court House, co. engr. Noted Dec. 18.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids in spring grading, curbing, sidewalks and vitr. brick paving, etc. 3,870 sq.yd. Ecton Rd., $35,500. E. A. Kemmler, Delaware Bldg., engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections and paving 2,662 ft. Hilltonia Ave. and Gault St., 26 ft., brick $53,797, asphalt $43,686; 6,439 ft. Nashoba and 18th Aves., 24 ft., brick $128,224, asphalt $106,496; 447 ft. Benkner St., 21 ft., brick $5,803, concrete $3,936; 386 ft. alley north Dodridge St., 16 ft., brick $2,761, concrete $2,491; 320 ft. alley north Patterson Ave., 15 ft., brick $2,030, concrete $1,816; 250 ft. alley north King Ave., 18 ft., brick $2,150, concrete $1,945; 1,311 ft. Mooberry St., 26 ft., brick or asphalt, $10,000. R. H. Simpson, city engr.

O., Steubenville—Plans repaving Franklin Ave., brick $51,404, asphalt $38,560. C. N. Teatt, Steubenville, city engr.

Ind., Upland—Plans concrete paving 1.5 mi. Anson, 2nd and Berry Sts., 25 ft. $35,000.

Ind., Vincennes—Knox Co. plans concrete paving 34,444 sq.yd. Freeman Rd., 18 ft., $82,153, 23,334 sq.yd. Kapps Rd., $53,661, both 18 ft.; grading and graveling Dutton Rd., 24 ft. $26,576. W. D. Hanlon, Vincennes, engr.

Michigan — State Hy. Dept., Lansing, plans concrete paving 21 mi. Project 113, B and E, Ionia Co. G. C. Dillman, Lansing, ch. engr.

Mich., Detroit — Making plans sheet asphalt paving 23,620 sq.yd. Six Mile Rd. $106,200, 5,600 sq.yd. Dexter Blvd. $25,080, 15,010 sq.yd. Conant Ave., Sect. 3 $67,500, 25,100 sq.yd. Conant Ave., Sect. 4 $112,500, 7,920 sq.yd. Plymouth Rd. Sect. 3, $35,500, and 32,050 sq.yd. McGraw Ave., Sect. 2 $144,000.

Mich., St. Johns — Clinton Co. plans graveling 10 mi. Assessment Dist. Rd. 18.

Wis., Appleton—E. L. Williams, city clk., rejected bids Apr. 1, paving, etc., 64,000 sq. yd. various streets. Will readvertise. R. M. Connelly, City Hall, engr. Noted Apr. 16.

Kan., Council Grove—Morris Co. making preliminary plans grading, bridging, etc. 15.5 mi. Southwest Trail, 28 ft. J. McKenzie, Court House, co. engr. Kansas Eng. Co., 1233 Webster St., Topeka, consult. engr.

Kan., Ottawa—Franklin Co. making preliminary plans grading, bridging, etc. 32 mi. various roads, 28 ft. E. C. L. Wagner, 608 Kemper Bldg., Kansas City, consult engr.

Tex., Boston—Bowie Co. making plans grading, bridging and gravel surfacing 7.2 mi. State Highway 5, Federal Aid Project 480-A, 16 ft. $74,700. F. E. Hess, Boston and Medical Arts Bldg., engrs.

Tex., Post — Garza Co. making plans hard-surfacing about 8 mi. road northwest of here. $150,000. J. M. Boren, Post, co. judge. Noted Apr. 9.

Tex., Waco — Voted $150,000 bonds, paving 7th St. V. G. Koch, city engr. Noted Apr. 2.

Okla., Lindsay — Making preliminary plans grading, curbing, brick or concrete surfacing 4 blocks Impvt. Dist. 1. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Okmulgee—Okmulgee Co. making preliminary plans grading, bridging, etc. 8.5 mi. Okmulgee-Morris Rd., 30 ft. $45,000. H. C. King, Okmulgee, engr.

Okla., Ponca City—Making preliminary plans grading, curbing, guttering and vertical fibre brick surfacing 14,800 sq.yd. South Ave. $65,000. E. A. Jones, Ponca City, engr.

Wash., Bucoda—City Council takes bids about May 30, curbing and concrete paving 3.4 mi. Main St., 20 and 40 ft. $33,000. Noted Apr. 16.

California—State Hy. Comn., Sacramento, plans paving Colton Ave. between west city limits of Redlands and bridge over Santa Ana River, San Bernardino Co. $200,000 or more. R. M. Morton, Sacramento, highway engr.

Calif., El Cerrito—Making plans 1.5 in. Warrenite on 2.5 in. asphaltic concrete paving approximately 500,000 sq.ft. various streets. R. L. Calfee, 221 South 22nd St., Richmond, engr.

Calif., Martinez—Contra Costa Co. making plans new road from state highway at Tank Farm to termination of Kearney St. $45,000 or more. R. R. Arnold, Martinez, co. surv.

Calif., Marysville—Plans paving Browns Grade between end of 12th St. and city limits. To exceed $35,000. L. B. Crook, city engr.

Calif., Merced — Making plans concrete paving Q St. between 22nd and 23rd Sts., and Willite paving portions of J, L and M Sts., etc. To exceed $25,000. C. D. Martin, city engr.

Calif., Oakland—Making plans improving portions of streets in Beverly Terrace, 80,787 sq.ft. grading, 45,889 sq.ft. oil macadam paving, etc. W. W. Harmon, city engr.

Calif., Pacific Grove—Plans election $25,000 bonds paving streets around city parks. H. D. Severance, city engr.

Calif., Redding — Made plans grading, paving, etc., portions of North and Placer Sts., etc. To exceed $50,000. E. A. Rolison, city engr.

Calif., Richmond—Making plans curbing, sidewalks, guttering and 1.5 in. on 3.5 in. asphaltic concrete paving 10th St. between Lucas and Pennsylvania Sts.; 1.5 in. National on asphaltic concrete paving 90,000 sq.ft. Gerard Blvd. between Macdonald Ave. and Ohio St. To exceed $25,000. E. A. Hoffman, city engr.

Calif., San Bruno—Made plans grading, curbing, sidewalks, Willite asphaltic concrete paving, etc., Linden, Poplar, Elm Sts., etc. To exceed $25,000. G. E. Kneese, Court House, Redwood City, engr.

Calif., San Diego—Voted special tax, estimated to yield $100,000 for paving streets on about 20 school sites.

Calif., San Diego — Made plans curbing, grading, concrete and 1.5 in. asphaltic concrete surfacing, etc., 25,054 sq.yd. 19th and "B" Sts.; 5 in. concrete surfacing, etc., 45,283 sq.yd. 30th St. between "B" and National Sts.; 1.5 in. sheet asphalt surfacing, etc., 34,501 sq.yd. National Ave. between 31st and 41st Sts. F. A. Rhodes, city engr.

Calif., San Leandro—Making plans probably 2 in. Warrenite on 6 in. concrete repaving East 14th St. from San Leandro Creek to Durant Ave. $75,000. F. A. Nikirk, city engr.

Calif., Santa Rosa—Sonoma Co. making plans grading, timber bridging and paving (type undecided) Rd. Impvt. Dist. 3. To exceed $25,000. J. B. Piatt, Rosenberg Bldg., engr.

Calif., Signal Hill—Making plans grading, curbing and paving, etc., State St. $80,000 to $100,000; and Willow St. between east and west city limits, to exceed $25,000. G. A. Schwabland, city engr.

Calif., Ventura — Making plans paving various streets north of Main St. $250,000 or more. C. W. Pierce, city engr.

Ontario—Dept. Provincial Highways, 116 University Ave., Toronto, plans probably bituminous macadamizing 4 mi. highway from Jarvis westerly. $150,000. G. Hogarth, ch. engr.

Ontario—Dept. Provincial Highways, 115 University Ave., Toronto, plans 10 mi. gravel road from Sudbury to Frood Mine. $100,000. C. H. Fullerton, Parliament Bldgs., engr.

Ont., London—Suburban Highway Comn., County Bldg., plans concrete highway. $60,000.

Ont., North Bay — Plans grading and asphalt paving 19,000 sq.yd. McIntyre St. $100,000. F. G. Mackie, city engr.

Ont., St. Catharines — Plans curbing, guttering and sheet asphalt paving 6,000 sq.yd. Wolseley Ave., Albert, Monck and Water Sts. $30,000. B. F. Lamson, city engr.

Ont., Toronto—Plans curbing, guttering and sheet asphalt paving 6,600 sq.yd. Boulevard Dr. from Bathurst to Dufferin Sts. $388,917. R. C. Harris, city engr.

Ont., Toronto—Plans brick block paving 3,000 sq.yd. Glenmore Rd., $12,477; concrete sidewalks on 9,500 ft. Brookside Dr., Craven and Morton Rds., Queens St., Duplex, Welland and McFarland Aves., $10,000; extending lane between Manning Ave. and Clinton St., $5,400. R. C. Harris, city engr.

BIDS DESIRED

New Hampshire — May 1, by F. E. Everett, comr. State Hy. Dept., Concord, grading and 7 in. rein.-con. paving, etc., 19,917 sq.yd. "East Side Trunk Line" north of Berlin to Milan town line, Coos Co. $65,000. F. F. Hargraves, div. engr.

Massachusetts — May 5, by Dept. Pub. Wks., Div. Highways, State House, Boston, concrete and bituminous macadam paving 23,033 ft. highway in Stoughton and Canton, $100,000; concrete paving 24,121 ft. in Somerset $125,000, and 2,400 ft. in Swampscott, $25,000; bituminous concrete paving 5,638 ft. in Harwich, $40,000; bituminous macadam paving 1,900 ft. in Northboro, $10,000, 5,242 ft. in Hingham and Cohasset, $25,000, also 1,700 ft. in Freetown, $10,000. W. F. Williams, comr.

R. I., East Providence (br. Providence)—May 7, by Metropolitan Park Comn., State House, Providence, bituminous macadam paving 2.48 mi. Barrington Parkway, 18 ft., here; adv. E. N.-R. Apr. 30.

R. I., Providence—May 4, by Pub. Wks. Dept., asphalt paving sections of Weybosset, Dorrence and Westminster Sts. $25,000. W. F. Slade, comr. Noted Mar. 5.

N. Y., Auburn—May 12, by J. P. Jaeckel, city mgr., City Hall, improving Park Ave., Fort, Fulton, Market, Genesee and Washington Sts. M. F. Dullea, city engr.; adv. E. N.-R. Apr. 30.

N. Y., Long Island City—May 4, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., repaving Beach 19th St., Old South Rd., Lincoln and Van Wyck Aves.; paving Hinman and 125th Sts.; regrading 97th St.; grading Kew Gardens Rd., 53rd and 91st Aves., Moore, 96th and 125th Sts.

N. Y., Long Island City—May 6, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., restoring sidewalks and sheet asphalt paving Rockaway Beach Blvd. from Beach 116th to 122nd Sts.; and granite block paving Rockaway Beach Blvd. from Beach 75th to 110th Sts.

N. Y., New York—May 6, by J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block repaving Dover and Frankfort Sts., 2nd and 5th Aves., West 12th St. from Greenwich to West Sts., and West 12th St. from 9th to 10th Aves.; grading, regrading, recurbing, etc., Riverside Dr.

N. Y., Poughkeepsie—May 21, by F. S. Greene, supt. Pub. Wks., 55 Lancaster St.,

Streets and Roads (Continued)

Albany, east approach and east and west anchorages of bridge across Hudson River, here, Dutches Co. known as Contr. 2 Mid-Hudson Bridge; adv. E. N.-R. Apr. 30.

N. Y., St. George — May 7, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous macadam paving and repaving Clove Rd.; concrete curbing, guttering, sidewalks, etc., on Old Town Rd., Giffords Lane, Warren St., North Burgher, Richmond and Forest Aves.

N. J., Bridgeton—May 12, by E. C. Ott, chn. Pub. Rds. Com., constructing Sect. 3, Bridgeton-Port Norris Rd., Lawrence Twp., Cumberland Co. W. M. Sharp, Court House, co. engr.; adv. E. N.-R. Apr. 30.

Pa., Phila.—May 4, Bureau of Highways, Dept. Pub. Wks., Schedule A, grading 44 streets; Schedule B, asphalt paving 16 streets; Schedule C, asphalt repaving 1 street; Schedule D, redressed granite block repaving 9 streets; Schedule E, reconstructing sewer in 1 street; Schedule F, concrete dam and section of bathing lake, at League Island Park. G. H. Biles, dir. Pub. Wks.

Delaware—May 20, by State Hy. Dept., Dover, constructing state highway Contr. CN 22, Contr. CK 25, Contr. CS 39, Contr. CS 41, Contr. SC 30B; adv. E. N.-R. Apr. 30.

Maryland—May 12, by State Rds. Comn., Baltimore, paving 9 sections highway in Baltimore, Prince George, St. Marys, Frederick, Howard, Montgomery, Talbot and Wicomico Counties; adv. E. N.-R. Apr. 30.

Md., Baltimore—May 13, by Bd. Awards, sheet asphalt paving 8,530 sq.yd. streets in Contr. 281-OC; and concrete paving 13,160 sq.yd. streets in Contr. 280-NA. S. C. Rowland, 214 East Lexington St., acting chn. paving com.

W. Va., Dunbar—May 4, by J. A. Shaver, mayor, grading, curbing and paving 16,000 sq.yd. various streets. J. R. Conway, city clk.

W., Va., Elkins—May 5, by H. C. Kesling, clk Randolph Co., grading and bituminous macadam on present stone surfacing Laurel Mountain Rd., and bituminous macadam surfacing Scotts Ford Rd. L. B. Robinson, Elkins, engr.

W. Va., Huntington—May 8, by Bd. City Comrs., grading, curbing and paving Jackson Ave. from 16th to 17th Sts., and 6th St. from 9th to 10th Aves. A. B. Maupin, city engr.

Fla., St. Petersburg—May 18, by S. S. Martin, dir. Finance, brick or asphalt block paving, etc., various streets; adv. E. N.-R. Apr. 30.

Miss., Gulfport—May 7, by Bd. Supervs. Harrison Co., grading, curbing, bridging and concrete surfacing, etc., 32,586 sq.yd. Gulfport-Hattiesburg Rd., Federal Aid Project 150. H. C. Dietzer, Jackson, engr. Noted Mar. 19.

Miss., Winona—May 5, by J. Q. Staples, mayor, and Bd. Aldermen, paving City Alley, Union, Church, Carrolton, College, Jones, Webster, and Magnolia Sts., Railroad, Hampton and Sterling Aves. M. L. Culley, Jackson, engr.

Louisiana—May 12, by State Hy. Dept., Reymond Bldg., Baton Rouge, gravel surfacing 5.25 mi. Sect. C, and constructing bridge, etc., on Sect. D, State Project 351, St. Francisville-Jackson Highway; also constructing 8.96 mi. State Project 365 A, Homer-Farmersville Highway, Claiborne Parish. W. B. Robert, ch. engr.

Louisiana—May 14, by State Hy. Comn., Reymond Bldg., Baton Rouge, graveling 3.46 mi. State Project 420, Ruston-Chatham Highway, Lincoln Parish; 10.68 mi. State Project 467 A, Minden-Lewisville Highway, Webtser Parish; 15.95 mi. Natchitoches-Boyce Highway, Sects. B and C, Natchitoches Parish. Bids also at same time for furnishing gravel for above. W. B. Roberts, ch. engr.

La., Baton Rouge — May 5, by Comn. Council, grading and Warrenite bitulithic, sheet asphalt or asphaltic concrete paving 43 streets, 40,000 sq.yd. excav., etc. J. W. Billingsley, Baton Rouge, consult. engr.

O., Akron—May 4, by W. F. Peters, dir. Pub. Serv., grading, curbing, laying sidewalks and vitr. brick paving 4,000 sq.yd. Moon St. and 2,160 sq.yd. Clearview Ave.; grading, laying sidewalks and cindering 300 cu.yd. 6th Ave.; repairs to bridge, and constructing retaining wall on Stuber St. $76,-300. E. A. Kemmler, Delaware Bldg., engr.

O., Canton—May 15, by Comrs. Stark Co., macadam or asphalt paving 2.5 mi. Canton-Canal Fulton Rd., 16 ft. $50,000-$60,000, 2.5 mi. Hills and Dales Rd., 14 ft., $60,000; brick paving 3.25 mi. Elton-Navarre Rd., 16 ft., $75,000; macadam paving 1.4 mi. Swamp Rd., Sect. B, 14 ft., $40,000. A. M. Wise, Court House, engr.

O., Garfield Heights (Cleveland P. O.)—May 4, by City, paving Edgepark Ave., Garfield Parkway, and East 114th St. To exceed $25,000. R. F. Munz, Town Hall, Cleveland, engr. Noted Apr. 9.

O., Steubenville—May 1, Comrs. Jefferson Co., waterbound bituminous macadam paving 10.1 mi. Toronto-Island Creek Rd., and Smithfield-Hopedale Rd. $68,500. V. Penn, Steubenville, engr.

Indiana—May 5, by C. Gray, engr. State Hy. Dept., Indianapolis, concrete paving 29,124 sq.yd. Federal Aid Rd. 91, Lake Co. Noted Apr. 23.

Ind., Huntington—May 11, by City, c/o M. Day, city clk., improving 25,000 sq.yd. various streets. L. Wagnor, mayor; adv. E. N.-R. Apr. 30.

Ind., Valparaiso — May 5, by F. R. McNiece, engr., Valparaiso, grading and graveling 2.02 mi. Biggart Rd., $25,350, 2.84 mi. McCord Rd. $25,915, and 2.06 mi. Nicholson Rd. $25,940, all foregoing 24 ft. wide; concrete paving 24,216 sq.yd. Scofield Rd., $68,500. Noted Apr. 23.

Illinois—May 6, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, surfacing 0.765 mi. Route 46, Sect. 464-W, 20 ft., Cook Co., F. T. Sheets, highway engr.; bids also at same time by City Clerk, widening above road, Consoer, Older & Quinlan, Inc., 140 South Dearborn St., Chicago, engrs.

Illinois—May 11, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, Portland cement, concrete, bituminous filled brick or bituminous concrete with or without binder course surfacing 8.94 mi Route 3, Sect. 43, 9 and 18 ft., Schuyler Co., 0.25 mi. Route 5, Sect. 15-x, 18 ft., Winnebago Co., 0.46 mi. Route 6, Sect. 7-A, 9 ft., De Kalb Co., 3.35 mi. Route 9, Sect. 36, 18 ft., McDonough Co., 4.12 mi. Route 9, Sect. 39, 18 ft., Fulton Co., and gravel surfacing 5.12 mi. same road, 5.33 mi. Route 22, Sect. 11, 20 ft., Cook Co., 7.8 mi. Route 22, Sect. 19, 18 ft., and 1.22 mi. Route 22, Sect. 21, 20 ft., both Lake Co., 0.31 mi. Route 22, Sect. G-2, 10 ft., and 0.81 mi. Route 22, Sect. 14-W, 9 ft., both Will Co., 7.06 mi. Route 23, Sect. 27, 9 ft., De Kalb Co., 1.56 mi. Route 27, Sect. 18, 18 ft., Ogle Co., 4.97 mi. Route 31, Sect. 16, 18 ft., Fulton Co., 7.23 mi. Route 33, Sect. 3, 18 ft., Jasper Co., 8.28 mi. Route 33, Sect. 6, 18 ft., Jasper and Effingham Counties, 5.76 mi. Route 33, Sect. 7, 18 ft.; Effingham Co., 3.19 mi. Route 39, Sect. 2, and 4.87 mi. Route 39, Sect. 3, and 5.54 mi. Route 39, Sect. 4, all 18 ft., McLean Co., 7.18 mi. Route 45, Sect. 1, 18 ft., La Salle Co.; grading 9,465 cu.yd. Route 8, Sect. 20-A, Iroquois Co., 44,030 cu. yd. Route 24, Sect. 12-A, Sangamon Co., 38,765 cu.yd. Route 39, Sect. 1, McLean Co., and 51,920 cu.yd. Route 39, Sect. 2-A, McLean Co. F. T. Sheets, ch. engr.

Ill., Riverside — May 4, by Bd. Local Impvts., Town Hall, grading, concrete surfacing, etc. 4,050 sq.yd. Garland Ave. and Park Pl. $80,000. Kelker, De Leuw & Co., 111 West Washington St., Chicago, engrs.

Wis., South Milwaukee—May 4, by R. J. Schauer, city clk., gradin gand sheet asphalt, vibrolithic or concrete paving 7,200 sq.yd. 10th and Marquette Aves. To exceed $25,000.

Ia., Ackley—May 6, surfacing 38,000 sq. yd. various streets. Currie Eng. Co., Webster City, engrs. Noted Feb. 19.

Ia., Des Moines—May 7, by City Clerk, sheet asphalt, asphaltic concrete, bitulithic asphalt, vibrolithic, concrete or brick surfacing 8,850 sq.yd. Woodland St., 2,041 sq. yd. 59th St.; resurfacing 2,767 sq.yd. Maple St.; curbing 2,607 ft. 3rd St., 2,607 ft. 4th St. and 1,412 ft. 59th St. K. C. Kastberg, City Hall, engr.

Ia., Jefferson—May 5 by Aud. Green Co., grading, etc. 10.2 mi. primary road, 84,639 cu.yd. excav., 91,600 cu.yd. overhaul, etc. J. L. Lindsey, Court House, engr.

Minn., Duluth—May 5, by F. W. Borgen, aud. St. Louis Co., clearing, grubbing, grading, etc., 3.1 mi. Chisholm Rd. Job 7-2502, $25,000; and 1.8 mi. Sturgeon Lake Rd. north of here, $30,000, both 30 ft. wide. R. W. Acton, Court House, co. engr.

Minn., Moorhead—May 4, by R. G. Price, city clk., paving 8 blocks 7th St. S. between 1st and 9th Aves. $35,000. Noted Mar. 26.

Minn., St. Paul—May 4, by G. J. Ries, aud. Ramsey Co., improving 3 mi. Co. Project 2552 between west end of Prescott Bridge and Trunk Highway 3, 34,907 sq.yd. one course concrete paving, 17,064 sq.yd. earth shoulders, 15,679 lin.ft. 4 and 2 in. integral curb, etc., $100,000; also grading and gravel surfacing 1 mi. Co. Project 2554 between South Robert St. and Trunk Highway 1, 49,288 cu.yd. earth and 400 cu.yd. rock excav., 178,060 cu.yd. over haul, etc., $25,000. P. N. Coates, 900 Guardian Life Bldg., St. Paul, engr. Noted Apr. 16.

Minn., Two Harbors—May 4, grading and paving about 7 blocks Maple St. $30,000. E. Carlson, city clk.

Minn., Worthington — May 8, by C. J. Kall, aud. Nobles Co., gravel surfacing 5 mi. Job 2501, State Rd. 11, 5 mi. Job 2503, State Rd. 12, 12 mi. Job 2504, State Rd. 14, 9 mi. Job 2505, State Rd. 17, and 6 mi. Job 2506, State Rd. 15. $40,000. E. Keeler, Worthington, engr.

Tex., Alpine—May 8 (extended date), by A. L. White, engr. Brewster Co., grading and bridging 5.13 mi. State Highway 3, Federal Aid Project 378-E. $49,084. Noted Apr. 16.

Tex., Anson—Jones Co. taking bids grading, bridging, etc., 15.27 mi. State Highway 30, Federal Aid Project 477-C. $73,000. J. W. Puckett, Navasota, engr. Noted Jan. 22.

Tex., Brownsville—Taking bids surfacing 20 blocks various streets. $100,000. A. B. Cloe, mayor.

Tex., El Paso—May 12, by E. B. McClintock, judge El Paso Co., grading and surfacing with extensions to present concrete and block base with 1 or 1½ in. bituminous topping State Highway 1, Federal Aid Project 439-E. $403,740 incl. 10% for excavation. Former bids rejected. F. E. Wilson, El Paso, co. engr. Noted Apr. 16.

Tex., Liberty—May 12, by C. R. Wilson, judge Liberty Co., Bates type concrete on sand and gravel surfacing 1.86 mi. State Highway 3, Federal Aid Project 352-B, $60,000, 7.8 mi. Sect. C, same road $225,-000, 6.8 mi. Sect. A same road (base already constructed), $210,000, and 6 and 8 in. shell surfacing 6 mi. Sect. D same road, $25,500. W. C. Youngs, Dayton, co. engr. Noted Dec. 4.

Tex., Sweetwater — May 8 (extended date), by A. S. Mauzey, judge Nolan Co., grading, curbing and bituminous on gravel sledge and crushed rock surfacing 7.61 mi. State Highway 70, State Aid Project 534-A, Unit 1. $116,923. J. A. Focht, Sweetwater, co. engr. Noted Apr. 16.

Tex., Sweetwater—May 9, by Nolan Co., grading, bridging and bituminous paving 7.6 mi. Federal Aid Project 534-A, 18 ft. $140,000. J. A. Focht, Sweetwater, engr.

Oklahoma—May 5, by State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project)**, grading and concrete surfacing 84,768 sq.yd. Enid-Garber Rd., F. A. P. 179, Garfield Co. $240,000, 21,120 sq.yd. Billings-Marland Rd., F. A. P. 125-B, Noble Co $40,000, 21,120 sq.yd. road east of Marland, F. A. P. 210-A, Noble Co. $53,000, 10,-560 sq.yd. Shawnee-Tecumseh Rd., S. A. P. 77-A, Pottawatomie Co. $29,000; grading and gravel surfacing 42,960 sq.yd. Stigler Rd., F. A. P. 73-B, Haskell Co. $26,000, 63,680 sq.yd. Blanchard Rd., S. A. P. 97, McLain Co. $72,000; vertical fibre brick surfacing 54,468 sq.yd. Edmond Rd., F. A. P. 130-B, Oklahoma Co., $212,000; concrete surfacing 11,887 mi. Ponca City-Tonkawa Rd., S. A. P. 111, Kay Co., $28,000; grading, etc., 6 mi. Jennings Rd., F. A. P. 108, Pawnee Co. $39,000, and 9 mi. Pryor-Vinta Rd., S. A. P. 158, Mayes Co., $118,000. J. M. Page, highway engr.

Oklahoma—May 12, by State Hy. Comn., Oklahoma City, grading, concrete paving, etc., 10.14 mi. Federal Aid Project 130, Logan Co., 18 ft. $291,000. J. M. Page, highway engr.

Idaho — May 8, by Commissioner Pub. Wks., at Court House, Paris, grading, crushed rock or gravel surfacing 14,337 cu. yd. Old Oregon Trail and Bear Lake Highway, Federal Aid Projects 96-A and 97-A, Bear Lake Co. P. B. Wilson, Sonnenkalb Bldg., Pocatello, dist. engr.

Washington—May 12, by State Hy. Dept., Olympia, grading and gravel surfacing, etc., 6 mi. State Rd. 10, Douglas Co.; 10 mi. Olympia Highway, State Rd. 9, Grays Harbor and Jefferson Counties; 9 mi. State Rd. 3, Inland Empire Hy. between Cle Elumn and Teanway River and 9 mi. Inland Empire Highway between Dry Creek and Ellensburg, Kittitas Co.; 5 mi. State Rd. 4 between Detillion Bridge south, Lincoln Co. J. W. Hoover, Olympia, highway engr.

California—May 11, by State Hy. Comn., Sacramento, grading and crushed gravel or stone surfacing 5.8 mi. highway between Camino and point 2 mi. east of Sportsman Hall, El Dorado Co.; also widening with concrete shoulders and asphaltic concrete surfacing 8.2 mi. highway between Beardsley and Canaland Lerdo, Kern Co. R. M. Morton, highway engr.

Calif., Colusa — May 5, by Supervs. Colusa Co., improving highway between Colusa Bridge and Butte Creek School, 1,100 cu.yd. gravel, furnished by owner, and 3,300 cu.yd., furnished by contractor in place. J. M. Felknor, co. surv. Noted Feb. 9.

Calif., Compton—May 5, by City Trustees, improving Lee and portions of other streets, 37,330 sq.ft. grading, 12,240 sq.ft. sidewalks, 2,540 ft. curbing, 37,330 sq.ft. 5 in. concrete paving; etc.; also Wilmington St., 60,570 sq.ft. grading, 2,200 sq.ft. sidewalks, 478 ft. curbing, 60,570 sq.ft. 5 in. concrete paving, etc. E. M. Lynch, Central Bldg., Los Angeles, engr.

Calif., Compton — City Trustees taking bids improving Compton Ave. and Kemp St., 34,675 lin.ft. curbing, 170,570 sq.ft. sidewalks, 52,295 sq.ft. 5 in. and 3,140 ft. 8

Streets and Roads (Continued)

in. guttering, 284,550 sq.ft. grading, 71,770 sq.ft. 5 in. concrete paving, etc. E. M. Lynch, Central Bldg., Los Angeles, engr.

Calif., Huntington Park—May 5, by City Trustees, 6 in. concrete paving 107,239 sq. ft. California Ave. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Calif., Monterey — City Council taking bids 5 in. macadam paving, etc., 400,000 sq. ft. Oak, Lily, Newton Sts., etc. To exceed $80,000. H. D. Severance, city engr.

Calif., Salinas—City Trustees taking bids grading, concrete curbing, 5 in. concrete paving portions of Pajaro St.; and grading, concrete curbing, guttering, removing present waterbound macadam and placing 2.5 in asphaltic concrete paving portions Palmetto St. H. Cozens, city engr. Noted Apr. 9.

Calif., San Diego—May 11, by A. H. Wright, city clk., concrete curbing, guttering, sidewalks and 1.5 in. asphaltic concrete on 2.5 in. bituminous paving 220,817 sq.ft. 20th St. F. A. Rhodes, city engr.

Calif., Turlock — City Trustees taking bids improving 3rd, 5th and C Sts., 190,000 sq.ft. grading, 155,000 sq.ft. 1.5 in. Warrenite on 3 in. asphaltic concrete paving, 35,000 sq.ft. concrete guttering, etc. H. Hall, city engr. Noted Feb. 19.

Ont., Arnprior—G. D. Biggs, Reeve Renfrew Co. Council, taking bids waterbound macadamizing 1.45 mi. road in McNab, 3 mi. in Horton, 3 mi. in Admaston, 2.8 mi. in Bromley, 1.5 mi. in Ross, 4.35 mi. in Westmeath, 1.18 mi. in Pembroke, 1 mi. in Stafford, 1 mi. in Wilberforce, and 3 mi. in Alice Twps. $180,222.

Ont., Kingston—May 1, by A. H. Muir, engr. Suburban Roads Comn., 58,800 gal. road oil on roads. $20,000. R. H. Fair, Court House, engr.

Ont., New Toronto—May 2, by W. H. C. Millard, town clk., sheet asphalt or bitulithic paving 4,000 sq.yd. 5th St. $25,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs. Noted Apr. 9.

Ont., Sandwich—Essex Co., County Bldg., wants prices materials for concrete paving highways. $100,000. W. H. Knister, County Bldg., engr.

BIDS RECEIVED

Mass., Boston — Dept. Pub. Wks., improving various streets in Brighton, Roxbury, West Roxbury and Dorchester, from H. F. Malley, 174 Hillside Ave., West Roxbury, sheet asphalt $43,294; from S. J. Tomasello, 11 Cushing Terrace, Dorchester, bitulithic $41,557. Noted Apr. 16.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, Apr. 22, grading, curbing and flagging West 6th St., from W. J. McHale Contg. Co., 1250 Jefferson Ave., $2,557, 7th Ave., from Grimm Contg. Co., 170 McKinley Ave., $744, 81st St. from Galco Contg. Co., 745 Dean St., $5,101; asphalt paving 36th St., from Borough Asphalt Co., 1301 Metropolitan Ave., $9,041, 80th and 81st Sts., from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $7,358 and $8,623 respectively. Noted Apr. 16.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 27, from Sicilian Asphalt Paving Co., 41 Park Row, New York City, repairing sheet asphalt pavements in 1st and 2nd Wards, $18,025; from Cleveland Trinidad Asphalt Paving Co., Flushing, sheet asphalt paving 92nd St. $20,798, grading, curbing and sidewalks on 95th St. $36,605, 99th St. $19,295; from Welsh Bros. Contg. Co., 32 Queens St., Astoria, regrading, recurbing and reflagging Ely Ave. $41,313, grading, curbing and sidewalks on Roosevelt Ave. $27,994, 102nd St. $10,480; from Uvalde Asphalt Paving Co., 1 Bway., New York City, grading, curbing and sidewalks on 112th St. $20,426, 109th St. $14,885. Noted Apr. 23.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Apr. 27, from W. J. Fitzgerald, 547 West 45th St., sheet asphalt repaving 37th St. $18,748, 47th St. $28,410; from Brusstar Constr. Co., Harlem River and 150th St., West 170th St. $47,513; from Uvalde Asphalt Paving Co., 1 Bway., 55th St. $27,711. Noted Apr. 23.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Apr. 21, bituminous macadam paving Oakland Ave. and Prospect St., from Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $13,523 and $24,699 respectively; within franchise area of Staten Island Midland Ry., Richmond Rd., etc. from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $36,378. Noted Apr. 16.

New Jersey—State Hy. Dept., Trenton, concrete paving, etc., 29,595 sq.yd. Route 5, Sect. 15 A, Union and Essex Counties, from P. Camillo & Co., Westfield, $242,508; 47,010 sq.yd. Route 4, Sect. 29, Ocean Co., from Union Paving Co., 30th and Locust Sts., Phila., Pa., $181,529. Noted Apr. 9.

Md., Baltimore—Bd. Awards, concreting footways, Contr. 84, from Arundel Constr. Co., Knickerbocker Bldg., $28,494.

Md., Baltimore — Bd. Awards, asphalt paving 14,080 sq.yd. Contr. 277 OCOA, from P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., $63,635. Noted Apr. 16.

O., Cleveland Heights (Warrensville P. O.)—City, from Thorpe Constr. Co., 3280 Scranton Rd., Cleveland, stone curbing, 4 in. drain tile guttering and sheet asphalt paving Noble Shire Rd. $7,128, Quilliams Rd. $18,384, Randolph Rd. $31,950, Vinshire Rd. $9,394, Ardmore Dist. $127,795, Allston Rd. $18,357, Ardoon Rd. $4,260, Clarence Rd. $9,220, Glenwood Rd. $18,733, Medford Rd. $12,314, Montevista Rd. $25,303; from E. Gedney, 905 Parkway Dr., Cleveland, Superior Rd. $11,948, Antisdale Rd. $35,007; from Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, Euclid Heights Blvd. $15,033. Noted Mar. 26.

Ind., Terre Haute — Vigo Co., concrete paving 2¼ mi. Myers Rd., 23 ft., from Foulkes Constr. Co., 750½ Ohio St., $79,950.

Michigan — State Hy. Dept., Lansing, graveling 3.75 mi. road, Shiawassee Co., from Holthauzen & Richardson, New Haven, $34,164; concrete paving 1 mi. road, Shiawassee Co., from A. J. Rhemus, Bay City, $33,737.

Michigan — State Hy. Dept., Lansing, graveling 6.058 mi. Assessment Dist. Rd. 439, Kent, Ottawa and Allegan Counties, from O. Kleet, Hartford, $47,804.

Mich., Detroit — From Detroit Asphalt Paving Co., 909 Free Press Bldg., grading and sheet asphalt paving 14,950 sq.yd. Nottingham Ave. $67,561, 23,910 sq.yd. Six Mile Rd. $101,565, 11,450 sq.yd. Jane Ave. $52,462; from Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 9,750 sq.yd. Riopelle Ave. $43,156, 13,970 sq.yd. State Fair Ave. $60,441; from C. L. Lincoln, 8074 East Canfield Ave., 2,870 sq.yd. Smart Ave. $13,091; from Detroit Dept. Pub. Wks., 2,970 sq.yd. Dayton St. $13,861.

Tex., Karnes City—O. N. Powell, engr. Karnes Co., Apr. 17, grading and bridging 9 mi. Rd. Dist. 3, 18 ft., 88,236 lb. reinforcing, 37,043 ft. treated and 1,278 ft. untreated timber, etc., from L. E. Sanders, San Antonio, $30,904. Engrs. est. $30,000. Noted Apr. 2.

Tex., Palestine—Anderson Co., grading, clearing, grubbing, bridging and concrete surfacing 10.75 mi. State Highway 43, Federal Aid Project 403, 187,860 lb. reinforcing, etc., from Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $102,329, engrs. est. $122,800; 9.75 mi. same road, Sect. C, 129,018 lb. reinforcing, etc., from J. W. Goodrum, Seguin, $75,632, engrs. est. $87,042. Noted Apr. 9.

California—State Hy. Comn., Sacramento, grading 140,000 cu.yd. Joint Highway Dist. 2, San Luis Obispo and Santa Barbara Counties, from C. W. Wimmer, Solvang, $67,302. Noted Apr. 2.

Calif., Chico — City Trustees improving various streets north of 5th St., east of Main St., etc., 373,000 sq.ft. 5 in. asphaltic concrete paving, 9,000 sq.ft. cement sidewalks, 16,000 sq.ft. concrete gutters, 17,000 ft. 5 in. concrete alley, etc., from Chico Contg. Co., Chico, approximately $85,200. Noted Apr. 2.

CONTRACTS AWARDED

Massachusetts — Dept. Pub. Wks., State House, Boston, concrete paving 8,100 ft. highway in Agawam, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $81,266, 4,073 ft. highway in Andover, to J. W. O'Connell, Tremont Bldg., Boston $47,420, 6,183 ft. highway in Brookfield, to B. Perini & Sons Inc., Ashland, $97,527; bituminous macadam paving 9,414 ft. in Paxton, to R. H. Newell & Son, Uxbridge, $71,066. Noted Apr. 9.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, sheet asphalt paving Charlotte Pl. $10,490, Troutman St. $24,160, 101st St. $10,015, curbing, etc., 78th St. $39,668; to Cleveland Trinidad Paving Co., Flushing, sheet asphalt repaving Flushing and Jamaica Sts., $79,465; to Highway Impvt. & Repair Co., 50 Church St New York City, sheet asphalt paving 91st St. $65,020, Woodhaven Ave. $12,700; to C. Kurth, 9519 126th St., Richmond Hill, grading, curbing, sidewalks, etc. on Nurge St. $3,270. Noted Apr. 23.

N. Y., New York—J. Miller, pres. Manhattan Boro, granite block repaving Park (4th) Ave., to P. Cramer, 154 East 150th St. $5,980; 11th Ave., to W. J. Fitzgerald, 547 East 45th St., $479,760. Noted Apr. 23.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block repaving 1st Ave., to J. Meehan & Son, 74 Cortlandt St., $227,525; asphalt block repaving 177th St., to Burnside Contg. Co., 270 Burnside Ave., $17,140. Noted Apr. 16.

N. Y., Rochester — Bd. Contract & Supply, asphalt repairs for 1925, to Whitmore, Rauber & Vicinus, 279 South Ave., $8[illegible]200.

Maryland — State Roads Comn., Baltimore, to Amer. Paving & Contg. Co., Montebello Ave., Baltimore, sheet asphalt paving 0.16 mi. Contr. BC-50, Baltimore Co., $19,807, 0.63 mi. Contr. BC-48, Baltimore Co., $57,339, 1.47 mi. Contr. BC-49, Baltimore Co., $61,055; to Slacum, Brohawn & Woolford, Cambridge, concrete paving 2.03 mi. Contr. K-28, Kent Co., $51,805, 1.25 mi. Contr. T-21, Talbot Co., $29,218, to Gosnell, Russell & Co., Frederick, 2.43 mi. Contr. B-71, Baltimore Co., $49,337, 2 mi. Contr. F-69, Frederick Co., $71,995, to H. D. Campbell & Sons Co., Towson, 2 mi. Contr. B-68, Baltimore Co., $71,462, 1.5 mi. Contr. B-1A, Baltimore Co., $15,264; to Thomas, Bennett & Hunter, Westminster, 1.46 mi. Contr. Cl-38, Carroll Co., $44,783, 1.23 mi. Contr. Cl-49, Carroll Co., $35,367, to P. D. Phillips & Bros., Salisbury, 1.72 mi. Contr. Q-33, Queen Anne Co. $41,991, 1 mi. Contr. WI-32, Wicomico Co. $24,777; to Kauffman Constr. Co., Denton, 1.5 mi. Contr. K-26, Kent Co. $24,355, to A. Farmer, St. Michaels, 0.82 mi. Contr. Co-36, Caroline Co. $17,999, to Hannemann-Burroughs Co., Salisbury, 1 mi. Contr. S-22, Somerset Co. $35,310, to Christhilf & Ensey Co., 1625 Ridgely St., Baltimore, 2.5 mi. Contr. AA-42, Anne Arundel Co. $112,228, to G. A. Atkinson, Port Deposit, 1 mi. Contr. H-44, Harford Co., $28,803; to Strong & Steffy, Inc., 15 Park Row, New York City, graveling 2 mi. Contr. C-19, Calvert Co. $19,612, to H. S. Swann, La Plata, 2.81 mi. Contr. Ch-30, Charles Co. $31,509, to E. R. P. Smith, Hyattsville, 1.7 mi. Contr. Ho-49, Howard Co. $21,835; to E. C. Valentine, Rocky Ridge, macadam resurfacing 7.8 mi. Contr. W-34, Washington Co. $123,272. Noted Apr. 9 and 16.

Maryland—State Roads Comn., 601 Garrett Bldg., Baltimore, concrete paving 0.68 mi. Contr. BC-51, Baltimore Co., to Tydings, Marine Co., 2 East Lexington St., Baltimore, $29,406; graveling 2 mi. Contr. C-22, Calvert Co., to Strong & Steffy, 15 Park Row, New York City, $23,750; concrete shoulders on 4 mi. Contr. B-20-B, Baltimore Co., to H. D. Campbell & Sons, Towson, $49,345. Noted Apr. 9.

Md., Baltimore—Bd. Awards, sheet asphalt paving Calvert, Hanover and Charles Sts., Linwood and Fairmount Aves., to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $75,637; also 15,150 sq.yd. streets in Contr. 276 OC, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., $50,058. Noted Apr. 23.

North Carolina—State Hy. Comn., Raleigh, grading and plain concrete paving 3½ mi. Project 697-A (Extension), Union Co., to J. O. Heyworth, Inc., Harvester Bldg., Chicago, Ill., $113,198.

Alabama—State Hy. Dept., Montgomery, (**e. e. means engrs. est.**) grading 29.86 mi. Hunter Station-Prattville Rd., 18 ft., Montgomery Co., to D. R. Cook, Selma, $115,993, e. e. $117,000, 24.83 mi. Prattville-Chilton Co. line Rd., 18 ft., Autauga Co. to Newell Constr. Co., 3828 Ave. A, Birmingham, $65,433, e. e. $66,000; sand clay surfacing 17 mi. Greenville-Wilcox Co. line Rd., 18 ft., Butler Co., to R. L. Kenan, Selma, $113,813, e. e. $114,000; gravel surfacing 1.9 mi. Troy-Orion Rd., 18 ft., Pike Co., to W. T. Ogletree, Troy, $4,050, 2 small bridges on Birmingham-Decatur Rd., Blount Co., to W. H. Pattie, Birmingham, $7,215. Noted Apr. 9.

Ala., Atmore—Asphalt surfacing 8 blocks Pensacola Ave., Main, Horner and Nashville Sts., 40 ft., to Morgan Hill & Co., Woodward Bldg., Birmingham, $50,000. Engrs. est. $51,000.

La., Lafayette—V. E. Smith, city engr., 4 mi. cement sidewalks, to Gulf Constr. Co., Opelousas, $29,205; portion of sidewalks, also light and water system, to C. J. Montgomery, Kaplan, $21,000. Noted Apr. 16.

Ohio — Guernsey Co. (Cambridge) and Tuscarawas Co. (New Philadelphia), improving Star Route 8, from Guernsey-Tuscarawas Co. line and extending north to New Comerstown, to W. M. Brode, New Comerstown, $117,066. Engrs. est. $120,000.

O., Cleveland—Improving South Moreland Blvd. and Honeydale Ave., 4,693 lin.ft. stone curbing, 5,070 lin.ft. 4 in. drain tile gutter, 6,410 sq.yd. sheet asphalt paving, to Bentley Bros., 3030 Euclid Ave., $20,371 and $15,963 respectively, Darmouth Ave. and West 165th St., 2,930 lin.ft. stone curbing, 3,250 lin.ft. 4 in. drain tile gutter and 5,130 sq.yd. sheet asphalt paving, to High-

Streets and Roads (Continued)

way Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $10,460 and $14,286 respectively; vitr. brick paving 10,600 sq.yd. St. Clair Ave., and sheet asphalt paving 4,900 sq.yd. Barberton Ave., to Baldwin Bros., 4500 Euclid Ave., $70,554 and $23,597 respectively. Noted Apr. 2.

O., Cleveland Heights (Warrensville P. O.)—Grading, curbing, guttering and sheet asphalt paving Fairmount Rd., to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $118,574. Noted Apr. 2.

O., Columbus—W. H. Duffy, dir. Pub. Serv., asphalt paving 4,029 ft. Bruck St., 26 ft., to Franklin Asphalt Paving Co., 209 South High St., $54,019, 8,352 ft. Neldon Rd., 36 ft., to B. F. Patterson, 1214 Neill Ave., $143,728; concrete paving 300 ft. alley north Handford St., 16 ft., to Yale Ave. Constr. Co., 146 Yale Ave., $2,069, 656 ft. Capitol St., 20 ft., to R. J. Dienst, 480 South 5th St., $4,083; improving 247 ft. alley north Beck St., 18 ft., to Federal Paving Co., 996 McAllister Ave., $1,407.

O., East Cleveland (Cleveland P. O.)—Vitr. brick and sheet asphalt paving 6 streets, to Rieley Bros., The Arcade, Cleveland, $140,000; 3 streets, to Gould & Maybach, 16311 Saranec Rd., Cleveland, $60,000.

O., Maple Heights (Cleveland P. O.)—Curbing, guttering and vitr. brick paving 6 streets, to A. M. Pejsa Paving Co., 3161 Derbyshire Rd., Cleveland Heights, $116,000.

O., Medina—Wayne Co., asphalt paving Rittman-Wadsworth Rd., to C. S. Burkheart, Wooster, $29,707. Engrs. est. $28,000. Noted Mar. 12.

O., New Comerstown—City, vitr. brick paving State St., portion of I. C. H. Highway 413 between Uhrichsville and Coshocton, to W. N. Brode Co., New Comerstown, $44,877. Engrs. est. $50,000. Noted Oct. 9.

Michigan — State Hy. Dept., Lansing, gravel surfacing 6.58 mi. Assessement Dist. 439, Ottawa, Allegan and Kent Counties, to O. Kleet, Hartford, $47,804.

Michigan—State Hy. Dept., Lansing, to Vise & Cray, Bronson, graveling Mattison Lake Rd. 12, Branch Co.; to H. A. Drake & Son, Battle Creek, Coldwater Lake Rd. 12 $17,359, Fox School 11 $8,218, Mattison Lake Rd. 10 $4,868, Union City Rd. 9 $9,227.

Michigan—State Hy. Dept., Lansing, will concrete 9.939 mi. Federal Aid Project 82-B, Washtenaw Co., by day labor. G. C. Dillman, Lansing, ch. engr.

Mich., Bad Axe—Huron Co., gravel surfacing 4 mi. Assessment Dist. 25, to Stephenson & Beadle, Harbor Beach, $26,124; 6 mi. Assessment Dist. 14, to W. E. Foale Co., Warren Ave., Saginaw, $66,537.7

Mich., Centerville—St. Joseph Co., waterbound macadamizing 4.075 mi. Au Clair-Sodus Rd., to W. Cleary, St. Joseph, $72,469; 8.6 mi. Wagner School Rd., to A. W. Taylor Constr. Co., Laporte, Ind., $155,000.

Mich., Detroit—Wayne Co. Rd. Comn., sub-grading, etc. 11.2 mi. Allen Rd. from Ecorse to Fort Rds., 53,348 cu.yd. excav., 5,720 ft. 12 in., and 3,914 ft. 24 in. tile pipe, 116 in. ft. 36 in. rein.-con. pipe, etc., to Donnelson & Hall, Dryden, $82,000.

Mich., Detroit—To R. J. Powelson, 6415 Iroquois Ave., one course concrete paving 2,275 sq.yd. Alley 2162 $5,498, 1,125 sq.yd. Alley 2168 $2,763, 975 sq.yd. Alley 2169 $2,445, 425 sq.yd. Alley 2170 $1,099, 1,430 sq.yd. Alley 2171 $3,572; to Otis Cement Constr. Co., 806 Hammond Bldg., 2,190 sq. yd. Alley 2163 $5,490, 1,765 sq.yd. Alley 2164 $4,260, 1,083 sq.yd. Alley 2167 $2,700, 924 sq.yd. Alley 2172 $2,020, 770 sq.yd. Alley 2173 $1,932; to Bishop & Weir, 1305 Lafayette Bldg., 1,355 sq.yd. Alley 2166 $3,313, 1,360 sq.yd. Alley 2165 $3,253.

Mich., Grand Rapids—Sheet asphalt on concrete paving Henry Ave. between Logan and Watkins Sts., to Klotte & Son, Grand Rapids, $28,772.

Wisconsin—State Hy. Comn., Madison, to Cameron & Joyce Co., Keokuk, Ia., improving Lancaster-Fennimore Rd., Federal Aid Project 376-A, Grant Co., 36,680 cu.yd. earth excav. at $0.41 per cu.yd., 3,672 cu. yd. loose rock excav. $1, 1,949 cu.yd. solid rock excav. $1.80, 5,026 cu.yd. borrow $0.40, 23,015 lin.ft. intercepting ditch $0.02, etc., total $49,768; to J. Gunnison & Son, 803 East Gorham St., Madison, paving above road, 17,968 cu.yd. crushed stone at $2.14 per cu.yd., 850 cu.yd. sand $1, total $39,302; to Huff & Kammerud, Argyle, improving Shullsburg-Monroe Rd., Federal Aid Project 374-A, 6,340 cu.yd. 1.25 to 3 in. broken stone, 3,639 cu.yd. less than 1.25 in. broken stone, and 800 cu.yd. screenings, each $2.18 per cu.yd., total $23,585. Noted Mar. 26.

Wis., Madison — Dane Co. Hy. Comn., Madison, to M. Mikkelson, Black Earth, grading and gravel surfacing Black Earth-Mt. Horeb Rd. $16,253, 1,455 cu.yd. Cross Plains-Pine Bluff Rd., $8,692, to Ayen & Gallagher, Mt. Horeb, 1,800 cu.yd. Mt. Horeb-Mt. Vernon Rd. $6,906, to Kutze & Gallagher, Oregon, 1,500 cu.yd. Lakeview-Macfarland Rd. $3,262, 1,092 cu.yd. Oregon-Lake Kegonsa Rd., $3,946, 1,342 cu.yd. Oregon-Lake Kegonsa Rd. D-6-26 $17,114, 2,368 cu.yd. Oregon-Lake Kegonsa Rd. D-5-14 $8,752, street in Macfarland, S. T. H. 10 $926; to R. Foll, Deerfield, gravel surfacing 2,400 cu.yd. Vernon-Middleton Rd. D-45-31 and 2,400 cu.yd. Vernon-Middleton Rd. $3,024, 2,000 cu.yd. Columbus-Edgerton Rd. Trunk Highway 73 $2,220, 1,800 cu.yd. Columbus-Edgerton Rd. D-67-35 $2,124, 2,760 cu.yd. Deansville-York Rd. D-52-35 $3,064, to G. J. Lengst, Prairie du Chien, 3,420 cu.yd. Mt. Horeb-Daleyville Rd. D-22-05 $2,360; to Schmidt & Lenz, Dane, concrete culverts and bridges on S. T. H. 12, S. 9, T. 8 and R. 8 $182, to H. O. Jarlsburg, Cambridge, S. T. H. 73, D-69-12 $420, Rodefield Culvert $759, Sprechter Bridge $436, and Klein Bridge $159.

Ia., Cedar Rapids — Concrete Paving about 17,000 sq.yd. various streets in Country Club addition, to Stark-Schneider Constr. Co., 118 South 11th Sts., approximately $46,000.

Ia., Des Moines—Polk Co., grading 60,000 cu.yd. Hastie Rd., etc., to J. H. Miller & Son, Brooklyn, $17,345; bridges on same road, Sect. B, to Jensen Constr. Co., Kimballton, $13,000.

Ia., Nevada—See "Bridges."

Minn., St. Paul—Improving Central Ave. and Dunlap St., 4,804 sq.yd. brick, 2,332 sq. yd. 7 in. rein.-con., 9,027 sq.yd. sheet asphalt on 7 in. concrete and 37,723 sq.yd. sheet asphalt on 6 in. concrete paving, 13,397 lin.ft. concrete curbing, etc., to Fielding & Shepley, 216 University Ave., $189,900.

Minn., St. Paul—H. W. Austin, city purch. agt., rein.-con. paving, etc., 11,963 sq.yd. Snelling Ave. between Randolph St., also Otto Ave., to Feyen Constr. Co., 277 Burgess St., $34,770. Noted Apr. 9.

Kan., Emporia — Improving various streets, 13,000 sq.yd. concrete surfacing, 7,500 ft. curb and gutter, 500 ft. 12 and 15 in. vitr. clay sewers, to C. J. McCoy Constr. Co., Emporia, $52,158. Noted Jan. 29.

Kan., Topeka — E. M. Covell, city clk., improving various streets, 4,000 sq.yd. 3 in. brick on 7 in. concrete, 465 sq.yd. 3 in. brick on 8 in. concrete, 4,177 cu.yd. grading, etc., to Kaw Paving Co., 616 N. E. Bldg., $24,892, engrs. est. $27,375; 6 and 8 in. concrete surfacing, etc. 44,113 sq.yd. various streets, to C. B. Ramsey, 1600 Plass St., $137,887, engrs. est. 142,278. Noted Apr. 2.

Neb., Falls City—M. Naylor, city clk., asphaltic concrete paving 38 blocks various dsitricts, to Monarch Eng. Co., Falls City, $104,700. Noted Apr. 2.

Neb., Madison — Grading, curbing and bitulithic paving 16,000 sq.yds. Dist 1, to Western Asphalt Co., 1st and Nebraska Sts., Sioux City, Ia., $2.25 per sq.yd., total $42,000. Engrs. est. $45,000.

Wyoming—State Hy. Comn., Cheyenne, grading, etc., 15 mi. Sect. 1, Big Piney-Daniel Rd., Federal Aid Project 177, Sublette Co., and 7.3 mi. Sect. 2 of above road, both 24 ft., to Taggart Constr. Co., Cody, $47,150 and $20,239 respectively, engrs. est. $56,285 and $25,000 respectively; also grading, surfacing, etc., 3 mi. Kirby-Worland Rd., Federal Aid Project 171, Washakie Co., to J. S. Tebbs, Cody, $34,045, engrs. est. $49,000. Noted Apr. 9.

Tex., Albany—Shackelford Co., grading, bridging, etc., 12.71 mi. State Highway 1, 104,201 cu.yd. excav., 1,207 cu.yd. concrete, 127,913 lb. reinforcing, to E. Shelton, Temple, $60,879. Engrs. est. $88,700. Noted Apr. 16.

Tex., Beaumont — Asphalt on concrete surfacing Magnolia Ave. Shamrock, Hazel and Neches Sts., etc., to Uvalde Rock Asphalt Co., Beaumont, Engrs. est. $38,000.

Tex., Dallas — Forest Heights Development Co., c/o G. A. Gamble, pres., Praetorian Bldg., paving Cedar Crest addition, to Uvalde Paving Co., Insurance Bldg., approximately $30,000.

Tex., Del Rio—Asphalt on macadam surfacing Main, Losya, Greenwood, Spring, Garfield, Martin, Bway. and Broroum Sts., to Uvalde Co., City Natl. Bank Bldg., San Antonio, approximately $300,000. Engrs. est. $370,000.

Tex., Galveston—For 1 in. rock asphalt on 4 in. concrete surfacing 31st and 39th Sts. from Bway. to Boulevard, to H. J. Hetkes, 3115½ R St., $123,689. Engrs. est. $135,000.

Tex., Henrietta — Clay Co., grading, bridging, etc. 7.14 mi. State Highway 5, Federal Aid Project 448-A, 1,538 cu.yd. concrete, 226,683 lb. reinforcing, etc., to J. P. Foty, Wichita Falls, $73,279. Engrs. est. $83,465. Noted Apr. 9.

Tex., Houston—Harris Co., grading and bridging State Highway 35, 820 cu.yd. concrete, 3,170 cu.yd. grading, 125,500 lb. reinforcing, to Bates & McClendon, Houston, $36,171. Engrs. est. $40,000. Noted Apr. 9.

Tex., Post City—Vertical fibre brick on 5 in. concrete surfacing 34,260 sq.yd. various streets, to G. Samson & J. Napier, Post City, $124,001. Engrs. est. $100,000.

Tex., Rockport—Arkansas Co., grading, bridging and mudshell surfacing, 6.4 mi. State Highway 57, 18 ft., to M. E. Ruby, Banconia, $66,000.

Tex., Sonora—Sutton Co., to W. T. Montgomery, Alamo Bank Bldg., San Antonio, grading, bridging, gravel and crushed stone surfacing 7.86 mi. State Highway 27, 18 ft., Federal Aid Project 425, Sect. A, $75,391, engrs. est. $83,400, 10.84 mi. same road, Sect. B, $76,908, engrs. est. $85,000, and 11.25 mi. same road, Sect. C, $112,601, engrs. est. $125,000. Noted Nov. 13.

Tex., Sweetwater — Nolan Co., grading, bridging, etc., 15.31 mi. State Highway 1, Federal Aid Project 444-D, 26 ft., to Hannah Constr. Co., Box 994, Waco, $43,728. Engrs. est. $108,640. Noted Apr. 9.

Tex., Texarkana — Surfacing 24 blocks Weber Pl., to O. Yenglin, Texarkana, $34,132. Engrs. est. $35,000.

Okla., Oklahoma City—Grading and sheet asphalt surfacing 3,900 sq.yd. 21st St., to Western Paving Co., Tradesmens Bldg., $29,400. Engrs. est. $30,000.

Okla., Wetumka—Brick on concrete surfacing 7,000 sq.yd. Dist. 6, to Park & Moran, Okmulgee, $34,018. Noted Apr. 16.

Colorado—State Hy. Comn., Denver, concrete paving 1.951 mi. Pueblo-La Junta Hy., Federal Aid Project 246-C, Pueblo Co., to Strange-McGuire, 401 S. & T. Bldg., Salt Lake City, Utah, $57,109, engrs. est. $63,332; gravel surfacing 2.833 mi. Monte Vista-Alamosa Hy., Federal Aid Project 270-B, Rio Grande Co., to San Luis Valley Constr. Co., Sanford, Colo., $15,472, engrs. est. $25,051. Noted Apr. 16.

INSPECTION SHED ENCLOSURES—NEW YORK, N. Y.

Following are lowest three bids opened by Bd. Transportation, 49 Lafayette St., Apr. 2, for inspection shed enclosures at Westchester Ave. Yard and 239th St. Yard. (A) D. C. Serber, Inc., Grand Central Terminal, (awarded contract); (B) Willets Construction Co., 280 Madison Ave.; (C) McHarg-Barton Co., 1328 Bway. The unit bids of the most important items are as follows:

	A	B	C
6,000 cu.yd. excavation, including disposal	$2 20	$2 00	$3 00
4,500 cu.yd. concrete masonry	22 00	21 50	22 00
200 cu.yd. concrete masonry	21 00	20 00	20 00
12 sq.yd. cobble stone lining for trenches	2 00	5 00	5 00
2 brick chimneys for boiler houses, complete	3,630 00	3,950 00	3,000 00
700 cu.ft. limestone	8 00	8 00	6 00
100,000 cu.ft. brick masonry (except for boiler house chimneys (a) common brick)	1 05	95	1 33
70,000 sq.ft. slag or gravel for roofs	0275	04	035
8,500 sq.yd. waterproofing (e) 5 ply	88	1 00	90
10 sq.yd. waterproofing	2 00	1 50	1 20
12,000 sq.ft. slate surfaced roofing	10	15	12
10,000 lin.ft. 3-ply felt flashing	26	30	28
70 ton steel beams and shapes, painted and erected	100 00	150 00	125 00
40 ton steel rods and bars	100 00	100 00	135 00
12 ton miscellaneous iron castings	132 00	250 00	150 00
52,000 sq.ft. of slab wire mesh reinforcement (a) not exceeding 1 sq.in. cross section per ft. width of slab	035	05	03
36,000 sq.ft. of slab wire mesh reinforcement (b) exceeding 1 sq.in. cross section per ft. width of slab	05	06	05
Extended totals complete job	$511,848	$517,683	$525,435

Streets and Roads (Continued)

Washington—State Hy. Comn., Olympia, to Norris Bros., Arlington, improving 3 mi. Pacific Highway between Allen and Burlington, Skagit Co., 2,950 cu.yd. excav. at $0.60 per cu.yd., 1,880 sta.yd. overhaul $0.02, 507 sq.yd. ½ width concrete paving $2.50, 34,573 sq.yd. full width concrete paving $2.14, total $79,252; to A. Boseloff, Seattle, improving 2.9 mi. State Rd. 5, Mill Creek to Mayfield, Lewis Co., 42,200 cu.yd. earth excav. $0.39, 1,000 cu.yd. solid rock excav. $0.80, 6,860 cu.yd. rock surfacing $1.79, 133,790 sta.yd. overhaul $0.04, total $40,787; to Yakima Paving Co., Perkins Bldg., Tacoma, improving 1.76 mi. State Rd. 5 between Ohop Hill and Tanwax Hill, Pierce Co., 2,200 cu.yd. earth excav. $0.75, 1,870 cu.yd. sub-grade $0.80, 7,700 sq.yd. full width concrete paving $2.40, 11,140 sq. yd. half width concrete paving $2.45, total $65,551. Noted Mar. 12.

California—State Hy. Comn., Sacramento, concrete shoulders and asphaltic concrete surfacing (standard mix) 1.9 mi. road between Arcata Hill and Santa Barbara, Santa Barbar Co., to Cornwall Constr. Co., Santa Barbara, $64,102.

California—State Hy. Comn., Sacramento, widening 5.92 mi. road between point 2 mi. north of Fresno to Herndon, Fresno Co., from 15 to 20 ft., to Stewart & Bland, Fresno, $40,610. Noted Mar. 12.

Calif., Brea — Curbing, guttering and asphaltic concrete paving 74,500 sq.ft. West Cedar St., to Griffith Co., Railway Bldg., Los Angeles, $219,550.

Calif., Glendale — City Council, curbing, sidewalks, 4 in. asphaltic concrete paving, etc., Howard, Bway. Sts., etc., to Federal Paving Co., Standard Oil Bldg., San Francisco, $34,720. Noted Apr. 16.

Calif., Huntington Beach — For 5 in. asphaltic concrete paving Orange Ave. between 11th and 23rd Sts., to G. M. Souter, 410 9th St., $54,853. Noted Feb. 19.

Calif., Pomona — For 6 in. concrete paving, etc. West Holt Ave., to T. W. Crawford, 110 Laurel St., $31,222

Calif., Pomona — For 6 in. concrete paving, etc. South Towne Ave., to T. T. Crawford, 510 Laurel St., $88,400. Noted Apr. 9.

Calif., Redondo Beach—Grading, guttering, curbing, 2 in. on 4 in. asphaltic concrete paving, etc., 253,386 sq.ft. Beryl St., to Griffith Co., Railway Bldg., Los Angeles, approximately $61,250.

Calif., San Diego—A. H. Wright, city clk., 5 in. concrete paving 252,268 sq.ft. National Ave., to B. Noble, Spreckles Bldg., $41,682. Noted Apr. 16.

Ont., Toronto—Bd. Control, City Hall, to Grant Contg. Co., 50 Front St. E., brick block paving Glenmore Rd. $4,259, concrete paving lane west of Yonge St. $5,293, concrete sidewalks on Davenport Rd., Wanless Ave. and Edith Dr.; to Dept. Pub. Wks., by day labor, asphalt paving Hazelwood Ave. $1,381, Indian Valley Crescent $1,461, Seller Ave. $2,268, asphaltic concrete paving Ruyhl Ave. $1,654, asphalt surfacing Front St. E. $5,526, concrete paving Fitzroy Terrace $710, concrete sidewalks on Carrick, Woodbine and Fairview Aves.; to Constructing & Paving Co., Confederation Life Bldg., asphalt paving Chamber Ave. $3,307, Ford St. $12,093, to Godson Contg. Co., Manning Chambers, Gunns Rd. $10,013, to Kilmer & Barber, 10 Adelaide St. E., Euston Ave. $4,175; to Warren Bituminous Paving Co., 54 University Ave., asphaltic concrete paving Bayfield Crescent, Caroline and Elmer Aves. $18,281; to H. Mitchell, 464 Brock Ave., concrete sidewalks on Harriett St., Bastedo, Clendennan, Euston, Gilmore, Duplex and Edna Aves., to A. Johnson, 17 Fairmount Crescent, Ainslee St., Bayfield Crescent, Chatham, Colton, Elmer and Golfview Aves. Noted Mar. 26.

Ont., Toronto — Toronto & York Good Rds. Comn., 57 Adelaide St. E., rein.-con. paving 200 cu.yd. Elliott Bridge, to W. E. Tidy, 394 Runnymede Rd., Mt. Albert Bridge to Orr & Orr, 121 Carlaw Ave.; bituminous concrete paving 2½ mi. Sutton Rd., to Warren Bituminous Paving Co., 54 University Ave.; macadamizing 2 mi. Vaughan Rd., to R. S. Fisher, 877 Broadview Ave.; 2 in. Scarlett Rd., to Constructing & Paving Co., Confederation Life Bldg., 2½ mi. Kennedy Rd., to A. E. Jupp Constr. Co., 170 Berkeley St. and Orr & Clark, 121 Carlaw Ave., 2½ mi. King Rd., to J. G. Dagg, Nashville, and 1½ mi. York Rd., to Standard Constr. Co., Mimico.

Buildings—Industrial

PROPOSED WORK

Mass., Hanover—PLANT—National Fireworks Co. plans rebuilding plant, recently destroyed by fire. $40,000 or more. Engineer and architect not selected.

Mass., Malden (Boston P. O.)—REPAIR and SERVICE GARAGE—Boston Elevated Railway Co., Park Sq. Bldg., Boston, plans repair and service garage. $50,000 or more. A. Blackburn, c/o owner, engr.

Mass., Somerville — FACTORY — Graff Underwood Co., 18 Beacon St., Boston, plans factory, Beacon St., here. To exceed $40,000. Engineer and architect not selected.

Mass., Woronoco—WAREHOUSE—Stratmore Paper Co. having revised plans prepared by J. Hower, engr. and archt., c/o owner, 4 story, 45 x 200 ft., rein.-con. and steel addition. $160,000.

Conn., Mystic — FACTORY — Robinson Silk Co. having plans prepared by Lockwood, Greene & Co., archts. and engrs., 1 Pershing Sq., New York City, 1 story and basement, rein.-con. and steel, plain foundation. $45,000.

Conn., Waynesboro—MILL—Stehli Silks Corp. having plans prepared by Lockwood, Greene & Co., archts. and engrs., 1 Pershing Sq., New York City, 1 story and basement, brick and steel mill, plain foundation. $90,000.

N. Y., New York—BOILER PLANT—Dept. Plant & Structures, Municipal Bldg., plans rein.-con., brick and steel, plain foundation, 731 East 16th St. $125,000.

South Carolina — POWER PLANT — Southern Power Co., 432 South Church St., Charlotte, N. C., W. S. Lee, vice pres., had plans prepared 50,000 or 60,000 hp. hydroelectric plant on Rocky Creek, in Lancaster Co., here. $1,250,000.

Tenn., Chattanooga — MILL—Scott Probasco, and T. H. McKinney, et al, 95 Crest St. organized Natl. Yarn Processing Co. to build mercerizing plant. $200,000.

O., Akron—FACTORY and OFFICE—Apr. 23, by Osborn Eng. Co., archts. and engrs., 7016 Euclid Ave., Cleveland, soon lets contract, 2 story, 58 x 248 ft. factory and 2 story, 42 x 152 ft. office building, brick and rein.-con., here, for Phila. Rubber Wks. Co., Bartges St. $150,000.

O., Cleveland — FACTORY — Frankelite Co., D. Frankel, pres., 5016 Woodland Ave., having plans prepared by A. Sogg, 3030 Euclid Ave., rebuilding 3 story, brick and timber, East 51st St., recently destroyed by fire. $40,000.

O., Cleveland—SHOP—Ohio Forge Co., 2955 East 92nd St., had plans prepared 1 story, 60 x 71 ft., brick and steel, 2955 East 92nd St. $40,000. Private plans.

O., Cleveland—SUB-STATIONS—City, H. Wright, dir. Pub. Utilities, City Hall, having preliminary plans prepared by C. G. Beckwith, engr. and archt., City Hall, 1 and 2 story, 40 x 48 ft., sub-station at Windsor Ave., 40 x 80 ft. sub-station at Scranton Rd., and 80 x 120 ft. addition to machine shop at West 41st St. $250,000.

Ind., Terre Haute — CAR SHOPS — Shourds-Stoner Co., archts., 510 Tribune Bldg., takes bids about May 15, 1 and 2 story, 60 x 240 ft. steel store room, master mechanic's office, carmens rest room, auditorium, showers and lockers, etc., Wabash Ave., for T. H. I. & E. Traction Co., 725 Wabash Ave. $90,000.

Mich., Detroit — MILL — Peerless Portland Cement Co., 2410 1st Natl. Bank Bldg., had plans prepared by A. Kahn, 1000 Marquette Bldg., 1 story, 70 x 156 ft., steel and terra cotta, West Jefferson Ave. $50,000.

Mich., Ontonagon — PAPER MILL — Northern Fibre Co., D. C. Everest, pres., 601 McIndoe St., Wausau, plans 2 story and basement, 72 x 177 ft., brick and concrete addition, plain foundation. Private plans.

Ill., Joliet—BOILER HOUSE and LAUNDRY—See "Buildings—Commercial."

Wis., Madison — PLANT — French Battery Co., 2317 Winnebago St., having plans prepared 1 story, 200 x 200 ft., brick, rein.-con. and steel warehouse and plant. $40,000. Private plans.

Wis., Merrill—MILL—Raymond Lumber Co., M. Raymond, pres., plans rebuilding planing mill, brick, recently destroyed by fire. $40,000-$50,000. Private plans.

Wis., Nasbro (Brownsville P. O.) — PLANT — Western Lime & Cement Co., plans rebuilding 2 story steel and stone, plain foundation, recently destroyed by fire. $50,000. Private plans.

Wis., Racine—FOUNDRY—A. A. Wickland & Co., archts. and engrs., 5 South Wabash Ave., Chicago, Ill., takes bids about May 1, 1 story, 90 x 240 ft., rein.-con., brick and steel, plain and concrete pile foundation, Kewanee St., for Standard Fdry. Co., 7500 Kewanee St., T. Jane, mgr. $250,000. Noted Apr. 23.

Wis., Sheboygan — FACTORY — W. C. Weeks, archt., 720 Ontario Ave., preparing plans 2 story and basement, 50 x 140 ft., brick, rein.-con. and steel, Alabama St. $50,000. Owner's name withheld.

Tex., Ft. Worth—MILL—Ft. Worth Textile Mills, c/o J. R. Griffin, Majestic Bldg., having plans prepared by W. G. Clarkson & Co., 606 First Natl. Bank Bldg., 3 story, 150 x 620 ft., rein.-con., brick, steel and stone, plain foundation, Cleburne Interurban and Forest Hills Aves. $500,000.

Tex., Sweetwater—PLANT—United States Gypsum Co. plans concrete and brick plant addition. $150,000 to $200,000.

Calif., Bakersfield—PLANT—Bakersfield Daily Californian, A. Harrell, publisher, plans brick or concrete plant. $100,000.

Calif., Oakland — FACTORY — Tyre Bros. Glass Co., 666 Townsend St., San Francisco, having plans prepared 1 story, concrete and steel, 7th and Cypress Sts. To exceed $40,000. M. H. Lanzitt Co., c/o. owner, engr.

Calif., Sacramento—SHOP—McLaughlin Sheet Metal Wks., 221 J St., having plans prepared by Dean & Dean, California State Life Bldg., 1½ story, 80 x 160 ft., brick shop. $40,000.

Calif., San Jose—PLANT—Guggenheim Packing Co., c/o H. Krause, archt., Bank of San Jose Bldg., having plans prepared 3 story, brick, Pleasant and Autumn Sts. $45,000.

Calif., Tulsa — PLANT — Los Angeles Creamery Co., K St., had plans prepared 1 story, 35 x 115 ft. casein and condensed milk plant. Private plans.

Calif., Van Nuys—PLANT—Pan American Petroleum Co., 811 South Spring St., Los Angeles, plans distributing plant and several service and oil stations, on 100 x 210 acre site, Cedroa and Aetna Aves., here.

Que., Grand Mere — SHOPS — Canadian Natl. R.R., Windsor Sta., Montreal, plans railroad shops, St. George St., here. $300,000. J. E. Morazain, genl. supt.

Ont., Dundas — PLANT — Kaustine Mfg. Co., plans enlarging plant. $50,000.

Ont., Frood Mine — FACTORY — Mond Nickel Co., Coniston, plans 32 x 120 ft. machine shop, and 32 x 106 ft. foundry, both concrete and brick. $100,000. L. G. Ingolsfrud, Coniston, engr.

Ont., Hamilton—BAKERY—Ideal Bread Co. Ltd., 13 Sanford St. S., G. Henon, mgr., having plans prepared bakery. $150,000. Private plans.

BIDS DESIRED

Mass., Chicopee—MANUFACTURING—Asinol & Sons Mfg. Co., Inc., 29 Worthington St., taking bids 4 story, 40 x 130 ft., brick and timber, Worthington St. $80,000. H. C. Hearne, 387 Main St., Springfield, archt.

Mass., Monson—PLANT—A. D. Ellis Mills Inc., taking bids 1 and 2 story, 91 x 125 ft., rein.-con., brick and steel power and manufacturing building to contain boiler house, dye house, engine room and wool sorting room. $50,000. Lockwood, Greene & Co., 24 Federal St., Boston, archts. and engrs.

Pa., Newell — ROUND HOUSE — Pittsburgh & Lake Erie R.R. Co., Springfield and Carson Sts., Pittsburgh, taking bids 1 story, 21 x 116 ft., brick and steel addition, here. A. R. Reymer, c/o owner, engr.

Pa., Pittsburgh — CREAMERY — Fairmont Creamery Co., 100 25th St., taking bids 5 story and basement, 24 x 99 ft., brick and tile addition, 25th and Smallman Sts. $50,000. Private plans.

Pa., St. Mary's — PLANT — St. Mary's Clay Products Co., taking bids 1 story and basement, brick, concrete and steel plant. $500,000. C. A. Searing, Farmers Bank Bldg., Pittsburgh, engr.

O., Cleveland—PLANT—Herald Publishing Co., 2380 West 7th St., taking bids 2 story and basement, 40 x 50 ft., brick, steel and concrete addition, West 7th St. $40,000. M. C. Rousseau, Bulkley Bldg., archt.

Ind., Muncie — FACTORY — Kitselman Bros. Fence Mfg. Co., South Council Sts., taking bids 3 story, 175 x 220 ft., brick and stone, plain foundation, Council St. $85,000.

Wis., Watertown—PLANT—May 8, by Watertown Milk Products Assn., J. Schumann, secy., Route 2, 2 story and basement, 62 x 80 ft. factory, 1 story, 32 x 40 ft. boiler house, and 1 story, 24 x 40 ft. receiving room, all rein.-con. and brick, plain foundations. A. Kuenzi, 202 North Water St., archt.

Calif., Los Angeles—LAUNDRY—May 11, by Supervs. Los Angeles Co., 1 story, 100 x 200 ft., rein.-con. pile foundation and bridge connecting with other buildings, at County General Hospital, here. County Mechanical Dept., City Hall, engrs.

Calif., Pomona—MILL—C. F. Whittlesey, archt., 6533 Hollywood Blvd., Los Angeles, taking bids 1 story, approximately 75 x 300 ft., silk mill, brick, for Swing & Walker, 308 Citizens Natl. Bank Bldg., Los Angeles. $55,000. Noted Apr. 9.

Ont., Windsor—FACTORY—Bayer Aspirin Co., H. L. Shade, mgr., taking bids new factory. $200,000.

BIDS RECEIVED

N. Y., New York—POWER HOUSE—E. J. O'Malley, comr. Pub. Markets, Municipal Bldg., Apr. 24, refrigeration power house.

Buildings—Industrial (Continued)

Exterior and East 151st Sts., from W. W. Constr. Co., Inc., 15 West 40th St., $284,-290. Noted Apr. 16.

Calif., Oakland — POWER HOUSE, GARAGE, etc.—Supervs. Alameda Co., 2 story and basement, rein.-con. power house, garage, etc., for county hospital, from J. P. Branagh, 184 Perry St., $153,000. Noted Feb. 23.

CONTRACTS AWARDED

Mass., Boston—SUB-STATION—Edison Electric Illuminating Co., 39 Boylston St., 5 story, 30 x 90 ft., rein.-con. and brick, plain foundation, Canton St., to I. F. Woodbury & Sons, 185 Summer St. Archts. est. $100,000.

Conn., Hartford—INDUSTRIAL—Gray Telephone Pay Station Co., Arbor St., 5 story addition, to Porteus-Walker Co., 13 Forest St., $174,000.

N. Y., Flushing—FACTORY—Company of Master Craftsmen, Inc., 5th Ave. and 47th St., New York City, 5 story, 60 x 240 ft. rein.-con. factory, here, to Turner Constr. Co., 244 Madison Ave., New York City.

Pa., Phila. — FACTORY — Fairmount Foundries, 3rd and Westmoreland Sts., 11 story, 90 x 97 ft., rein.-con. and brick addition, plain foundation, American and Westmoreland Sts., to H. A. Hopple, Heed Bldg. Private plans.

Pa., Phila.—FACTORY—Minter Bros., 5051 Lancaster Ave., 3 story and basement, 74 x 146 ft., rein.-con. and brick factory, plain foundation, to W. R. Dougherty, 1610 Sansom St. Noted Mar. 12.

Pa., Phila.—MILL—H. C. Aberle & Co., A and Clearfield Sts., 5 story and basement, 90 x 195 ft. hosiery mill, rein.-con. and brick, plain foundation, to W. J. Steele & Son, 219 North Broad St.

Pa., Pittsburgh — SUB-STATION — Duquesne Light Co., 435 6th Ave., 2 story and basement, 50 x 69 ft., brick and steel, Winthrop St., to Dwight P. Robinson Co., 3777 5th Ave. Engrs. est. $40,000.

O., Cleveland—FACTORY, OFFICE and WAREHOUSE—Brooks Co., A. D. Brooks, vice pres., Superior Ave. N. W., 3 story and basement, 108 x 132 ft., brick and rein.-con., 1240 Oregon Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $200,-000. Noted Apr. 9.

O., Cleveland—MACHINE SHOP—Star Machine & Tool Co., J. J. Schugar, pres., 6505 Carnegie Ave., 1 story, 93 x 100 ft., brick, steel and timber, East 93rd St., to L. W. Lapp, 2020 Brunswick Rd. Archts. est. $40,000. Private plans.

Mich., Detroit — FACTORY — Unique Brass Mfg. Co., Detroit, 60 x 125 ft. factory addition, to Everett Winters Co., 1024 Book Bldg.

Wis., Beaver Dam — PLANT — Beaver Dam Fibre Co., O. Olman, Jr., secy., Juneau, will build 1 story, 72 x 130 ft. hemp plant, and 24 x 250 ft. dry kiln, brick, plain foundation, by day labor. $50,000. Private plans.

Wis., Milwaukee — FACTORY — Kerner Incinerator Co., 1029 Chestnut St., 2 and 1 story, 72 x 100 ft., brick, plain foundation, East Water St., to Klug & Smith Co., 69 Wisconsin St. Noted Mar. 19.

Wis., Milwaukee — FACTORY — Roberts Brass Co., 178 Lincoln Ave., 2 story, 70 x 106 ft., brick addition, plain foundation, to Meredith Bros. Co., 253 Washington St. Archts. est. $50,000.

Wis., Milwaukee—LAUNDRY—Mitchell Damp Wash Laundry, 873 Kinnickinnic Ave., 1 story, 60 x 150 ft., brick and timber, Kinnickinnic Ave., to H. Riesen & Son, 1388 Humboldt Ave. Archts. est. $40,000.

Calif., Bakersfield — PLANT — Benham Ice Cream Co., 1420 H St., Fresno, will build 2 story ice cream plant, concrete and brick, Chester Ave., here, by day labor and sub-contracts. $100,000.

Calif., San Francisco — FACTORY — Quality Enameling & Porcelaining Co., 1634 Howard St., 1 and 2 story, 100 x 160 ft., brick and steel, San Bruno and Cortland Aves., to Austin Co. of California, Santa Fe Bldg.

Calif., San Francisco—PLANT—The Bulletin, 6 story and basement, rein.-con., Mission St., to Robinson & Gillespie, 1051 Sutter St., $276,500. Noted Feb. 12.

Calif., Taft—FACTORY—United Electric Co., 1 story, 25 x 125 ft., brick factory, to Los Angeles Building & Constr. Co., Marsh-Strong Bldg., Los Angeles.

Que., Three Rivers — PAPER MILL — Wayagamask News Co. Ltd., paper mill, to Foundation Co. Ltd., 224 St. James St. Montreal; structural steel to Dominion Bridge Co., Lachine. Total est. $3,000,000.

Ont., Toronto—FACTORY—Exide Batteries of Canada, 153 Dufferin St., general contract 2 story factory addition, to Jackson-Lewis Constr. Co., Federal Bldg. Archts. total est. $50,000.

Buildings—Commercial

PROPOSED WORK

Mass., Boston — APARTMENT — One Hundred Thirty-seven Marlboro St., Inc., c/o Boardman Co., Ames Bldg., having plans prepared by Bigelow & Wadsworth, 3 Hamilton Pl., 11 story and basement, brick and stone, 137 Marlboro St. To exceed $150,000.

Mass., Boston—APARTMENT—H. M. Williams, R. C. Pingree and E. Henderson, trustees, 79 Milk St., having plans prepared by Putnam & Cox, 114 State St., 5 story and basement, 4,000 sq.ft. floor space, brick and stone, plain foundation, 32 Beacon St. Archts. est. $160,000.

Mass., Boston—GARAGE—H. I. Shakley, 582 Massachusetts Ave., rejected bids 4 story, 70,000 sq.ft. floor space, rein.-con., brick and steel, 18-20 Deerfield St. $250,-000. Project abandoned. Noted Feb. 5.

Mass., Boston — HOSPITAL — Hospital Dept., J. Manning, pres., rejected bids Apr. 10, 9 story and basement, brick and limestone, plain foundation, Albany and East Concord Sts. $750,000. Will readvertise. Ritchie, Parsons & Taylor, 15 Ashburton Pl., archts. Noted Apr. 23.

Mass., Brookline (Boston P. O.) — GARAGE—Hotel Beaconsfield plans 1 story, brick or concrete service garage, Gladstone St. $150,000 or more. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.) — APARTMENT — Gilmore Constr. Co., 4 Brattle St., having plans prepared by H. Harlow, 4 Brattle St., 4 story and basement, 45 x 125 ft., brick and stone, 31 Concord Ave. $150,000.

Mass., Cambridge (Boston P. O.) — APARTMENT—Harlow Realty Co., 4 Brattle St., having sketches made by H. Harlow, 4 Brattle St., 4 story and basement, 4,500 sq.ft. floor space, brick and stone, plain foundation, 32 Shepard St. $150,000.

Mass., Gloucester—OFFICE and STORE —P. B. Long, 18 Tremont St., Boston, plans 2 or more story, brick store and office building, here. $150,000. Engineer and architect not selected.

Mass., Medford (Boston P. O.)—STORE and OFFICE—Shikes & Long, 18 Tremont St., Boston, plans 2 or 3 story and basement, 12 sq.ft. floor space, brick store and office building, here. $200,000. Engineer and architect not selected.

R. I., Newport—CITY HALL—Bd. Aldermen, having sketches made by Appleton & Stearns, 53 State St., Boston, 2 story and basement, rein.-con., brick and stone city hall. $200,000. Noted Apr. 9.

R. I., Providence — GARAGE — Providence Gas Co., Turks Head Bldg., having plans prepared and takes bids about 1st week in May, 3 story, 200 x 300 ft., brick and concrete, Dexter and Waldo Sts. $600,-000. Jenks & Ballou, 1035 Grosvenor Bldg., archts.

Mass., Quincy—THEATRE, STORE and OFFICE—M. Allen, c/o Tuck & Co., archts., 636 Warren St., Roxbury, having revised plans prepared 3 story and basement, 70 x 200 ft., brick and steel, plain foundation, Wollaston Sect. $200,000. Former bids rejected. Noted Mar. 12.

N. Y., Brooklyn — APARTMENT — H. Kavshansky, c/o Seelig & Finklestein, archts. and engrs., 44 Court St., having plans prepared 5 story, brick, steel and stone, plain foundation, 5th Ave. and 62nd St. $175,000.

N. Y., Brooklyn—HOSPITAL—Brooklyn Eye & Ear Hospital, 94 Livingston St., having sketches made by Crow, Lewis & Wick, 200 5th Ave., New York City, brick, steel and stone hospital, plain foundation. $1,000,000.

N. Y., Brooklyn—HOSPITAL—Caledonia Hospital, Woodruff Ave., having plans prepared by F. V. Pruitt, 342 Madison Ave., New York City, 5 story and basement, brick and stone addition, plain foundation, Parkside Ave. and St. Paul Pl. $250,000. Work will be done by separate contracts under supervision of architect.

N. Y., Glens Falls—HOSPITAL—Warren Co. having preliminary plans prepared by Tooker & Marsh, 101 Park Ave., New York City, 3 story, 95 x 100 ft. tuberculosis hospital. $200,000.

N. Y., New York—APARTMENT—Garment Workers Union, M. Sigman, pres., 3 West 16th St., having plans prepared by A. J. Thomas, 15 East 47th St., 5 story, brick, steel and stone, plain foundation, 158th St. and Sheridan Ave. $1,500,000.

N. Y., New York—HOTEL—Seventh Ave. and 56th St. Corp., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., having plans prepared 15 story, 100 x 175 ft., brick, steel and stone, plain foundation, 7th Ave. and 56th St. $1,250,000.

N. Y., New York — LOFT — S. Barkin, 565 5th Ave., plans 15 story, brick, steel and stone, plain foundation, West 48th St. $2,000,000. Engineer and architect not selected.

N. J., Jersey City—APARTMENT—O. H. Albaneslus, 2465 Boulevard, soon takes bids 16 story, brick, steel and stone, plain foundation, Boulevard and Gifford Ave. $1,-000,000. Shape, Bready & Peterkin, 50 East 42nd St., New York City, archts. and engrs.

N. J., New Brunswick — MUNICIPAL — City plans new municipal building. $300,-000. Engineer and architect not selected. E. J. McLaughlin, city clk.

Fla., Moore Haven—COURT HOUSE—Glades Co. voted $150,000 bonds, for court house. N. S. Wainwright, clk.

Tenn., Memphis—HOSPITAL—Shelby Co. voted $500,000 bonds for hospital. E. W. Hale, co. chn.

O., Ashtabula — COMMERCIAL and MARKET HOUSE—T. P. Fitzgerald & W. Johnson, Ashtabula, having plans prepared by McGarry & McGarry, 4614 Prospect Ave., Cleveland, 1 story, 62 x 225 ft., brick, steel and concrete commercial and market house. $150,000.

O., Canton — ARMORY — Chamber of Commerce, W. T. Kuhns, chn., 1419 Cleveland Ave., plans 2 story armory, between 6th and 9th Aves. S. W. $150,000.

O., Cleveland—APARTMENT—F. Stein, 2195 East 93rd St., having plans prepared by L. R. Walker, 1900 Euclid Bldg., 3 story and basement, 37 x 150 ft., brick and steel, Cornell Rd. $150,000.

O., Lakewood (Cleveland P. O.) — APARTMENT—M. Margolin, 4901 Woodland Ave., Cleveland, had plans prepared by M. Weiss, 617 Union Bldg., Cleveland, 3 story and basement, 94 x 102 ft., brick and timber, 15103 Detroit Ave. $150,000.

O., Lakewood (Cleveland P. O.)—CLUB HOUSE — Lakewood Elks Club, F. C. Meyers, chn. building comn., 14018 Detroit Ave., Cleveland, having plans prepared by J. H. Graham & Co., 1612 Euclid Ave., Cleveland, 3 story, 124 x 220 ft., brick, steel and concrete addition, here. $300,000.

Ill., Chicago—APARTMENT—P. Klein, 110 North Dearborn St., having plans prepared by R. C. Ostergren, 155 North Clark St., 5 story and basement, 38 x 137 ft., rein.-con., brick and stone, plain foundation, 1432 West Dearborn St. $250,000.

Ill., Chicago—APARTMENT—S. J. Russel, 1454 East Marquette Rd., having plans prepared by Aman & Lilienthal, 64 West Randolph St., 2 story and basement, 80 x 127 ft., rein.-con., brick and stone, plain foundation, 1500 Marquette St. $150,000.

Ill., Chicago—APARTMENT—S. Olson, 3156 Sheridan Rd., having sketches made by Oman & Lilienthol, 64 West Randolph St., 3 story and basement, 65 x 169 ft., rein.-con., brick, stone and terra cotta, plain foundation, Dakin and Seminary Sts. $175,000.

Ill., Chicago — BANK — Allied Securities Co., 10 North Clark St., had plans prepared by H. J. Burns, 605 North Michigan Ave., 6 story and basement, 75 x 100 ft., rein.-con., brick and stone, Van Buren and Wood Sts. $350,000. K. M. Vitzthum & Co., 605 North Michigan Ave., engrs.

Ill., Chicago — HOSPITAL — Wesley Memorial Hospital, 2449 South Dearborn St., having plans prepared by Holabird & Roche, archts. and engrs.; 104 South Michigan Ave., 5 story and basement, 125 x 216 ft., rein.-con., brick and stone, plain foundation, Superior St. $750,000.

Ill., Chicago — HOSPITAL — Holabird & Roche, archts and engrs., 104 South Michigan Ave. soon lets contract 5 story and basement, 109 x 115 ft., rein.-con., brick and stone, Fullerton St., for Martha Wilson Memorial Hospital, 735 Fullerton Ave. $800,000.

Ill., Chicago—HOSPITAL—H. J. Gaul, archt. and engr., 228 East Superior St., prepared plans and takes bids about May 1, 6 story and basement, brick and steel, 4900 Thomas St., for St. Anns Hospital. $900,000.

Ill., Chicago — Y. M. C. A., c/o S. O. Houser, bus. mgr., 19 South La Salle St., having plans prepared by Berlin & Swern, archts. and engrs., 19 South LaSalle St., 3 story and basement, 100 x 150 ft., rein.-con., brick and stone, plain foundation, 91st and Houston Sts. $750,000.

Ill., Chicago — Y. M. C. A., c/o S. O. Houser, bus. mgr., 19 South La Salle St., having plans prepared by Berlin & Swern, 19 South La Salle St., 3 story and basement, 50 x 150 ft., 111th St. and Wabash Ave., and 3 story and basement, 90 x 150 ft., Irving Park and Kildard St., both rein.-con., brick and stone, plain foundations. $500,000 each.

Ill., Chicago — STORE and LOFT — Cooper, Winston & Manniene, 112 West Adams St., had plans prepared by A. L. Alschuler, engr. and archt., 28 East Jackson Blvd., 2 story and basement, 100 x 118 ft., rein.-con., brick and terra cotta, plain foundation, North State St. $150,000.

Buildings—Commercial (Continued)

Ill., Evanston—OFFICE and THEATRE—C. E. Elliott, 1[illegible]0 Sherman St., having plans prepared by J. E. Pridmore, 38 South Dearborn St., Chicago, 4 story and basement, 85 x 175 ft., rein.-con., brick and stone, Arrington St. $750,000.

Ill., Joliet — ORPHANAGE, etc. — E. Breilmaier & Sons, archts., 432 Bway., Milwaukee, Wis., soon take bids 3 story and basement, concrete and brick orphanage, boiler house and laundry, plain foundation, here, for Guardian Angel Orphanage. $400,000. Noted Nov. 27.

Wis., Milwaukee—HOSPITAL—Masonic Service Bureau, F. L. Wright, pres., 2424 Prairie St., plans fireproof hospital. $400,000. Engineer and architect not selected.

Kan., Ft. Scott—OFFICE—Western Auto Insurance Co., and Calhoun Dry Goods Co., having preliminary plans prepared by Holt, Price & Barnes, 800 Davidson Bldg., Kansas City, 5 story and basement, 75 x 120 ft., concrete, brick and terra cotta office building. $200,000.

Kan., Winfield—CITY HALL and AUDITORIUM—Election May 5, $175,000 bonds for city hall and auditorium.

S. D., Sioux Falls—THEATRE—Finkelstein & Ruben, 425 Loeb Arcade, Minneapolis, Minn., having plans prepared by Buechner & Orth, 500 Shubert Bldg., St. Paul, Minn., 2 story and basement, 72 x 150 ft., rein.-con., brick, tile and stone, here. $225,000.

Mo., Kansas City—APARTMENTS—C. O. Jones, 402 Continental Bldg., having plans prepared by J. F. Lauck, 1004 Orear-Leslie Bldg., 3 story and basement, 5 units, 40 x 60 ft., and 6 units 56 x 90 ft., rein.-con. and brick, etc., plain foundations, Ward Parkway and Roanoke St. $725,000.

Tex., Dallas—CLUB—Columbian Club, c/o H. Mallison, pres., 3033½ Park Row, and E. Sanger, chn. building comn., 1101 South Ervay St., plans new building. $250,000. Engineer and architect not selected.

Tex., Dallas—OFFICE—D. D. Swindle, archt., North Texas Bldg., making plans 15 story and basement, rein.-con., brick, steel and stone office building. $750,000. Owner's name withheld.

Tex., Dallas—STORE—Tiche-Goettinger Co., Dallas, plans 8 story and basement, 75 x 200 ft. department store, St. Paul and Main Sts. $1,200,000. Engineer and architect not selected.

Tex., Dallas — STORE and OFFICE — Volk Bros. Co., 1208 Elm St., L. Volk, pres., plans 100 x 200 ft. store and office building, St. Paul and Elm Sts. $800,000. Engineer and architect not selected.

Tex., Dallas — WAREHOUSE — Owner, c/o S. T. Morgan, 1917 Houston St., plans 4 story and basement, 600 ft. long, rein.-con. warehouse, plain foundation. $500,000.

Tex., Houston—THEATRE and OFFICE—J. Oppenheimer, A. Kronkosky & W. Eniston, c/o San Antonio Drug Co., 308 Market St., San Antonio, having plans prepared by Kelwood Co., Travis Bldg., San Antonio, and soon takes bids 6 story, 122 x 194 ft., rein.-con., brick, steel, stone and hollow tile, brick foundation, Main St. and McKinney Ave., here. $1,500,000.

Tex., Houston — WAREHOUSE — Terminal Warehouse Co. soon takes bids (2 units) 6 and 7 story, rein.-con., brick and steel, plain foundation, Main St. $3,100,000. Engineer and architect not announced.

Okla., Okemah—COURT HOUSE—Okfuskee Co. making preliminary plans 2 story and basement, 84 x 110 ft., rein.-con. and brick, plain foundation, Bway. $160,000. Engineer and architect not selected.

Okla., Oklahoma City—JAIL—Muskogee Co. having preliminary plans prepared probably 3 story, rein.-con., brick and stone, plain foundation. $250,000. C. L. Henson, comr. Engineer and architect not selected.

Okla., Oklahoma City—OFFICE—Oklahoma Savings & Loan Co., Amer. Natl. Bank Bldg., having preliminary plans prepared by Hawk & Parr, archts. and engrs., Cotton Exch. Bldg., 8 story and basement, rein.-con., brick and stone, plain foundation. $300,000.

Okla., Oklahoma City—STORE—Buick Motor Co., 504 North Bway., making preliminary plans 4 story and basement, 100 x 150 ft., rein.-con., plain foundation, Bway. $200,000. Engineer and architect not selected.

Ariz., Tucson—HOTEL—L. C. James, pres. Chamber of Commerce, plans Tourist Hotel, here. $300,000. Engineer and architect not selected.

Wash., Seattle — APARTMENT — Loyal Order of Moose having plans prepared by R. C. Stanley, Lumber Exch. Bldg., 4 story and basement, 120 x 120 ft., rein.-con., 8th and Union Sts. $400,000.

Calif., Altadena—HOME—Boys' & Girls' Aid Society, Pasadena, having plans prepared by M. Hunt, Hibernian Bldg., Los Angeles, group of hollow concrete buildings. $250,000.

Calif., Auburn — APARTMENT and THEATRE—F. W. Durfee, having plans prepared by L. F. Starks, Ochsner Bldg., Sacramento, 2 story, brick and rein.-con., High St. $150,000.

Calif., Bakersfield—HOTEL—Bakersfield Hotel Co., c/o H. L. Stevens Co., designers, 433 California St., San Francisco, having preliminary plans prepared 4 story, 150 x 160 ft., brick and rein.-con. hotel.

Calif., Compton—HOTEL—A. T. Williams, c/o W. Bruce, archt., Chapman Bldg., Los Angeles, had preliminary plans prepared 3 story, 120 x 225 ft., timber and stucco, Temple St. $150,000 or more.

Calif., Hollywood—LODGE—L. O. O. M., Hollywood Lodge, had preliminary plans prepared by L. Korn & L. Brun, Financial Center Bldg., Los Angeles, 3 story and basement, 100 x 140 ft. lodge, brick. $200,000.

Calif., Los Angeles—BANK and OFFICE—Security Trust & Savings Bank having plans prepared by J. and D. B. Parkinson, 420 Title Insurance Co., 2 story, 80 x 120 ft. bank and office building, Western Ave. and Beverly Dr. $150,000.

Calif., Los Angeles—CLUB—C. F. Whittlesey, archt., 6533 Hollywood Blvd., preparing preliminary plans 8 story, Class A construction, Santa Barbara Ave. $200,000. Owner's name withheld.

Calif., Los Angeles — DANCE HALL — A. McFadden Co., c/o S. F. Birds, archt., 425 Southwestern Ave., having plans prepared 2 story, 150 x 275 ft., timber and stucco, 3rd St. and Vermont Ave. $150,000. Work will probably be done by day labor under supervision of architect.

Calif., Los Angeles—HOTEL—Tifal & O'Connor, (owners and archts.) Grant Bldg., preparing plans 8 story and basement, 100 x 150 ft. hotel, 5th and Normandie Sts. $1,000,000.

Calif., Los Angeles—LOFT—Harris Newmark Estate, having preliminary plans prepared by Curlett & Beelman, 408 Union Bank Bldg., 12 story and basement, 140 x 160 ft., rein.-con., 9th and Los Angeles Sts. $650,000. Klein-Norton Co., 253 South Los Angeles St., lessee.

Calif., Los Angeles—STATE BUILDING—State plans election $1,250,000 bonds for office (state building), here.

Calif., Oroville—LODGE and OFFICE—B. P. O. E., plans lodge and office building. $150,000.

SUBWAY—PHILADELPHIA, PA.

Bids were opened by Dept. City Transit, March 17, for constructing portion of Broad St. Subway from Filbert to Stiles Sts., Contr. No. 110, (A) Frederick L. Cranford, Inc., Charles H. Locher, Winston & Co., Inc., 149 Remsen St., Brooklyn, N. Y., (lowest bidder); (B) Keystone State Construction Co., Franklin Bank Bldg., (awarded contract); (C) Rodgers & Hagerty, Inc., Grand Central Terminal, New York City, (highest bidder). The unit bids are as follows:

	A	B	C
Reading Railroad Crossing (lump sum)	$1,100,000.00	$930,000.00	$1,187,500.00
Subway Excavation:			
693,000 cu.yd. above elevation zero	11.00	10.80	12.00
29,000 cu.yd. below elevation zero	12.00	25.00	12.00
15,000 cu.yd. excavation for sewers, pipes and conduits	8.00	8.00	12.00
Underpinning:			
5,750 lin.ft. buildings 5 stories or less	75.00	90.00	75.00
1,050 lin.ft. buildings over 5 and less than 10 stories	100.00	180.00	100.00
500 lin.ft. buildings 10 stories or over	150.00	290.00	150.00
300 cu.yd. additional masonry for underpinning	40.00	40.00	50.00
City center building	25,000.00	76,000.00	60,000.00
Vault of Lyric Theatre Building	20,000.00	10,000.00	15,000.00
United Gas Improvement Company Building	50,000.00	84,000.00	50,000.00
Concrete Masonry:			
100 cu.yd. 1:1½:3	30.00	30.00	22.50
101,000 cu.yd. 1:2:4	22.00	22.00	22.50
15,000 cu.yd. 1:3:6	20.00	18.00	22.50
1,000 cu.yd. 1:4:8	20.00	12.00	22.50
2,000 sq.ft. reinforced concrete sheeting	2.00	1.00	1.50
2,000 bags cement grout	2.50	2.50	2.00
Granolithic Finish:			
9,600 sq.yd. without abrasive	3.00	1.50	1.50
3,700 sq.yd. with abrasive	3.00	2.00	3.00
1,000 cu.yd. brick masonry	50.00	40.00	50.00
200 cu.yd. hollow terra-cotta brick or tile masonry	50.00	40.00	50.00
1,500 sq.yd. vitrified brick sewer lining	8.00	6.00	7.00
400 cu.yd. rubble masonry in mortar	14.00	7.00	18.00
200 cu.yd. dry rubble masonry	12.00	5.00	12.00
100 sq.yd. granite block sewer lining	6.00	5.00	6.00
300 cu.yd. broken stone or pebbles for drains	5.00	3.00	4.00
Flagstones:			
100 sq.ft. 2-in. thickness	.60	2.50	.90
500 sq.ft. 4-in. thickness	1.00	3.50	1.20
100 sq.ft. 6-in. thickness	3.50	5.00	3.00
Vitrified Clay Pipe:			
6,000 lin.ft. 4-in.	.50	.50	.50
5,000 lin.ft. 5-in. or 6-in.	.50	.70	.75
400 lin.ft. 8-in. 10-in.	1.25	.80	1.20
10,000 lin.ft. 12-in.	1.50	2.30	1.80
14,000 lin.ft. 15-in.	2.20	3.00	3.00
500 lin.ft. 18-in.	4.50	3.50	4.25
100 lin.ft. 20-in.	5.50	4.50	5.50
200 lin.ft. 24-in.	8.00	6.00	7.00
Extra Heavy Cast-Iron Soil Pipe:			
100 lin.ft. 2-in.	1.00	.70	1.20
1,000 lin.ft. 4-in.	1.10	1.00	1.80
100 lin.ft. 5-in.	1.50	1.50	2.50
2,000 lin.ft. 6-in.	1.50	1.75	3.00
200 lin.ft. 8-in.	3.00	2.50	3.50
100 lin.ft. 10-in.	4.00	3.00	4.50
100 lin.ft. 12-in.	5.00	4.00	6.00
50 building new manholes	400.00	300.00	400.00
250 vertical ft. building new wellholes	40.00	20.00	50.00
2 inlets No. 1	400.00	200.00	300.00
30 inlets No. 2	400.00	200.00	300.00
2 inlets No. 3	400.00	150.00	300.00
Taking Out and Rebuilding Inlets:			
2 inlets having standard pattern casting	125.00	150.00	120.00
26 inlets having old pattern casting to be replaced by standard pattern casting	250.00	250.00	250.00
60,000 sq.yd. asphalt mastic waterproofing	3.00	3.00	2.40
Fabric Waterproofing:			
200 sq.yd. 1-ply	1.00	1.00	1.20
5,000 sq.yd. 2-ply	1.75	1.50	2.40
100 sq.yd. 3-ply	2.00	2.00	3.60
100 sq.yd. 4-ply	3.00	2.50	5.00
100 sq.yd. 1-ply dry roofing felt	1.50	.80	1.20
10 cu.yd. brick in waterproofing compound	75.00	80.00	60.00
3,000,000 lb. riveted structural steel	.0735	.07	.075
25,000,000 lb. steel beams and shapes	.0735	.065	.075
5,600 sq.ft. steel gratings and frames	3.50	3.00	4.00
7,400 lb. miscellaneous steel, ladders, stairs, plates	.14	.12	.25
250,000 lb. tie rods, bolts, nuts, washers, dowels and anchor bolts	.10	.10	.18
10,000 lb. steel wire lath and anchors	.40	.25	.35
2,500,000 lb. steel reinforcing rods	.05	.08	.06
100 net tons interlocking steel sheet piling	150.00	150.00	150.00
100 vert. ft. 12-in. steel pipe piles	10.00	8.00	12.00
1,000 vert. ft. 15-in. steel pipe piles	10.00	10.00	18.00
4,000 lb. wrought iron or steel pipe, any size, with fittings	.20	.10	.20
8 emergency exit covers	450.00	300.00	500.00

	A	B	C
60,000 lb. cast-iron frames and covers for manholes	.10	.10	.10
8,000 lb. miscellaneous iron castings other than manhole frames and covers per pound	.10	.10	.10
50 cesspools 10-in. grate top iron bell trap cesspools	25.00	10.00	12.00
200 thousand ft. b.m. yellow pine lumber	100.00	60.00	100.00
Cast-Iron Pipe, Furnished, any standard size:			
2,400 net tons bell and spigot straight	75.00	70.00	80.00
65 net tons bell and spigot specials	175.00	200.00	200.00
50 net tons flange high-pressure straight	150.00	100.00	100.00
5 net tons flange high-pressure specials	250.00	200.00	250.00
250 net tons universal high-pressure straight	125.00	100.00	100.00
10 net tons universal high-pressure specials	250.00	200.00	250.00
Laying Bell and Spigot Cast-Iron Pipe and Specials:			
100 lin.ft. 4-in.	1.00	.50	1.20
500 lin.ft. 6-in.	1.00	.70	1.50
200 lin.ft. 8-in.	2.50	.80	1.80
500 lin.ft. 10-in.	3.00	.80	2.10
900 lin.ft. 12-in.	3.00	1.20	2.40
100 lin.ft. 16-in.	4.00	1.20	3.00
100 lin.ft. 20-in.	4.00	2.20	3.50
100 lin.ft. 24-in.	4.00	3.00	4.25
100 lin.ft. 30-in.	4.00	4.00	5.50
8,000 lin.ft. 36-in.	4.00	5.50	6.50
1,600 lin.ft. 48-in.	5.00	8.00	9.50
Laying Flange High-Pressure Pipe and Specials:			
100 lin.ft. 8-in.	2.00	1.25	3.50
100 lin.ft. 12-in.	3.00	1.75	5.00
100 lin.ft. 16-in.	3.00	2.75	6.00
100 lin.ft. 20-in.	4.00	4.50	7.00
Laying "Universal" High-Pressure Pipe and Specials:			
100 lin.ft. 8-in.	2.00	1.25	3.50
100 lin.ft. 12-in.	2.50	1.75	5.00
100 lin.ft. 16-in.	3.00	2.75	6.00
1,000 lin.ft. 20-in.	3.00	4.50	7.00
Removing Cast-Iron Pipe:			
2,000 net tons bell and spigot straight and specials	20.00	20.00	30.00
20 net tons universal high-pressure	20.00	20.00	60.00
10 net tons flange high-pressure	20.00	20.00	60.00
Furnishing and Setting Bell End Water Gate Valves:			
2 4-in.	50.00	20.00	50.00
2 6-in.	75.00	60.00	80.00
2 8-in.	100.00	80.00	100.00
3 12-in.	150.00	120.00	160.00
2 16-in.	200.00	200.00	280.00
2 20-in.	300.00	350.00	425.00
2 24-in.	500.00	600.00	700.00
2 30-in.	1,000.00	1,300.00	1,300.00
2 36-in.	1,250.00	1,800.00	1,850.00
200 copper strainers	4.00	2.50	4.00
Terra-Cotta Ducts:			
105,000 duct ft. 3-in.	.30	.25	.30
400,000 duct ft. 3½-in.	.32	.25	.30
Fibre Conduit Ducts:			
105,000 duct ft. 3-in.	.30	.25	.25
400,000 duct ft. 3½-in.	.32	.25	.25
Electrical Conduits:			
2,000 lin.ft. ¾-in.	.60	.20	.30
550,000 lin.ft. 1-in.	.60	.30	.35
600 lin.ft. 1¼-in.	.70	.30	.50
7,000 lin.ft. 1½-in.	.80	.40	.55
250 lin.ft. 2-in.	1.50	.50	.70
125 lin.ft. 2½-in.	2.00	.75	1.10
1,000 lin.ft. 3½-in.	2.50	1.00	2.00
2,400 outlet boxes	2.00	2.00	1.50
90 pull boxes	3.00	3.00	3.00
350 reflector rings	15.00	10.00	12.00
Temporary Lighting System (lump sum)	7,500.00	10,000.00	5,000.00
1,000 sq.yd. temporary brick sidewalk paving	3.00	2.00	3.50
Temporary Granite Block Paving, Gravel Joints:			
55,000 sq.yd. for furnishing and laying new granite blocks	6.00	7.00	8.50
5,000 sq.yd. for relaying old granite blocks	5.00	1.00	3.50
Permanent Paving:			
5,000 sq.yd. sheet asphalt	4.50	4.50	5.00
100 sq.yd. bituminous concrete	4.50	2.50	5.00
100 sq.yd. reinforced concrete	5.00	3.00	5.00
1,000 sq.yd. smooth-dressed granite block	7.00	6.50	9.00
100 sq.yd. redressed granite block	6.00	4.50	7.00
300 sq.yd. vitrified block	6.00	4.50	7.00
100 sq.yd. wood block	6.00	4.50	7.00
Furnishing and Laying Curb:			
100 lin.ft. 6-in. straight granite curb	3.50	3.00	3.50
1,000 lin.ft. 8-in. straight granite curb	3.50	3.50	4.00
100 lin.ft. 6-in. curved granite curb	8.00	3.50	4.50
100 lin.ft. 8-in. curved granite curb	8.00	4.00	5.50
1,500 lin.ft. 8-in. steel edge concrete curb	2.50	2.00	3.50
13,000 lin.ft. resetting curb	2.00	1.00	1.20
Sidewalk Paving:			
13,000 sq.yd. new granolithic	3.00	3.00	3.00
100 sq.yd. new brick	3.00	2.00	3.50
5,600 sq.yd. laying flagstones	3.00	3.00	2.00
6,000 sq.yd. restoration of grass plots	2.00	2.00	2.00
1,000 sq.ft. vault lights	3.50	3.50	4.50
4,000 sq.ft. safety treads	3.00	2.50	3.00
$300,000 expenditure force account per cent added	15	30	15
Extended totals	$16,749,936	$16,863,437	$17,900,173

Buildings—Commercial (Continued)

Calif., Sacramento — CAPITOL — State plans election $1,250,000 bonds for completion of state capitol annex here.

Calif., San Francisco — MASONIC — Masonic Orders, Masonic Temple Bldg., plan 25 to 30 story organization building. $8,000,000-$10,000,000. Engineer and architect not selected.

BIDS DESIRED

N. H., Concord—BANK—May 4, by New Hampshire Savings Bank, 116 North Main St., 4 story and basement, 47 x 100 ft., brick and stone, North Main St. $200,000. J. B. Leland & Co., 41 Mt. Vernon St., Boston, Mass., archts. Noted Apr. 9.

Mass., Boston—HOME—Mount Pleasant Home, 57 Elm Hill Ave., taking bids 3 story and basement, 100,000 sq.ft. floor space, brick and limestone home for aged, plain foundation, South Huntington Ave. A. H. Bowditch, 44 Bromfield St., archt.

Mass., Boston—STORE and OFFICE—A. Carbone, c/o Mowll & Rand, archts., 21 School St., taking bids 6 story and basement, 10,000 sq.ft. floor space, rein.-con. and brick, Province St. To exceed $150,000. Noted Apr. 23.

Mass., Cambridge (Boston P. O.) — STORE and OFFICE—Albiani Lunch, 150 High St., Boston, taking bids 2 story and basement, 76 x 140 ft., brick, plain foundation, 552-560 Massachusetts Ave. $170,000. W. W. Drummey, 80 Boylston St., archts. Noted Apr. 23.

Mass., Lynn—HOSPITAL—Lynn Hospital, 528 Broad St., H. M. Hoague, pres., taking bids 4 story and basement, brick and stone hospital. $150,000. Kendall, Taylor Co., 142 Berkley St., Boston, archts. Noted Feb. 19.

Mass., Springfield—EXCHANGE—New England Telephone & Telegraph Co., Springfield, taking bids 3 story, brick addition, Worthington St. To exceed $150,000. R. C. Sturgis, 120 Boylston St., Boston, archt.

Mass., Worcester—BUSINESS—H. Steinberg, c/o E. W. Norton, archt., 44 Pearl St., taking bids 4 story, 70 x 100 ft., brick and terra cotta, Elm St. $150,000.

Mass., Worcester—STORE and OFFICE—Barnard Press, Monadnock St., taking bids 5 story and basement, brick, plain foundation, Mercantile and Front Sts. $175,000. E. T. Chapin, 340 Main St., archt. Noted Apr. 9.

R. I., Providence—HOSPITAL—May 1, by Miriam Hospital Corp., c/o Kendal Taylor Co., archts., 142 Berkley St., Boston, Mass., 4 story and basement, brick and stone addition, Parade St. $200,000. Noted Apr. 23.

N. J., Cape May—JAIL—May 6, by Bd. Freeholders Cape May Co., Court House, alterations and additions to jail; adv. E. N.-R. Apr. 30.

N. J., Pitman—THEATRE, STORES and APARTMENTS — May 5, by Magaziner, Eberhard & Harris, archts., 603 Chestnut St., Phila., Pa., 2 story, gallery and basement, 100 x 139 ft., brick and steel, plain foundation, here, for Pitman Realty Co., $150,000.

Pa., Bethlehem—BANK—May 7, by Ritter & Shay, archts., Packard Bldg., Phila., 1 story and basement, 60 x 130 ft., rein.-con., plain foundation, Broad and Guetter Sts., here, for Bethlehem Trust Co.

Pa., Hanover—HOSPITAL—May 5, by Ballinger Co., archts., 12th and Chestnut Sts., Phila., 3 story and basement 54 x 137 ft., rein.-con. and brick, plain foundation, Highland and Charles Sts., here, for Hanover General Hospital. $200,000.

Pa., York—BANK—May 12, by W. L. Stoddart, archt., 50 East 41st St., New York City, 1 story, basement and mezzanine, 50 x 115 ft., rein.-con. and brick, plain foundation, Market and Newberry Sts., here, for Western Nat'l Bank. $150,000.

Fla., Tampa—AUDITORIUM—May 5, by City Comn., municipal auditorium, $250,000. F. O. Adams, Jr., and F. J. Kennard & Son, Tampa, archts.

O., Cleveland—HOTEL—Cutler Turkish Bath Co., W. J. Cutler, pres., 41 Pub. Sq., taking bids 6 story and basement, 47 x 176 ft., brick, steel and concrete, 1112 Prospect Ave. $400,000. P. Matzinger & Lehman-Schmitt Co., Hunkin-Conkey Bldg., archts.

O., Dayton—COMMUNITY HOUSE, etc. —May 20, by W. F. Bennett, archt., Mutual Home Bldg., 2 story and basement, rein.-con. and limestone community house and Sunday school, plain foundation, Salem St., for Jewish K. K. B. Y., E. Rauh, Grafton Ave., pres. $250,000.

O., East Cleveland (Cleveland P. O.)—APARTMENT — Hertz Realty Co., 530 Leader-News Bldg., Cleveland, taking bids 3 story and basement, 47 x 111 ft., brick and timber, 814 Stanwood Rd., here. $150,000. M. Weis, 1836 Euclid Ave., Cleveland, archt.

Ill., Chicago—APARTMENT—W. C. Gordon, 6740 North West Highway, taking bids 3 story and basement, 140 x 150 ft., brick and stone, plain foundation, Olmstead and Overhill Sts. $150,000. A. Ruttenberg, 64 West Randolph St., archt.

Ill., Lisle — GYMNASIUM — Shattuck & Layer, engrs. and archts., 19 South La Salle St., taking bids 2 story and part basement, 124 x 160 ft., rein.-con., brick, steel and stone, concrete pile foundation, for St. Frodopuis College, c/o architects. $150,000.

Mich., Detroit — APARTMENT — B. C. Wetzel & Co., archts., 2317 Dime Bank Bldg., taking bids 2 story and basement, 85 x 120 ft., rein.-con. and brick, plain foundation, Gibson and Lincoln Aves. $200,000. Owner's name withheld.

Wis., Milwaukee—THEATRE, STORE and OFFICE—Dick & Bauer, archts., 811 State St., taking bids 2 story and basement, 86 x 88 ft., and 102 x 150 ft., brick, concrete and steel, plain foundation, Wells St., for Mal Investment Co., 376 East Water St. $500,000. Noted Feb. 19.

Calif., Los Angeles—STORE and OFFICE—Hohm Building Co., c/o A. C. Martin, archt., Higgins Bldg., taking bids 4 story, 65 x 155 ft. brick, 6th St. and Western Ave.

Calif., Los Angeles — STORE and OFFICE—L. A. Smith, archt., 3rd St. and Western Ave., taking bids two 2 story, 120 x 269 ft. and 120 x 120 ft., rein.-con. and brick, Vermont Ave., for Film Exchange Co. 200 Knickerbocker Ave. $200,000 or more.

Calif., Oakland — HOSPITAL — R. A. Herrold, archt., Forum Bldg., Sacramento, taking bids 5 story and basement, rein.-con., Webster and Summitt Sts., here, for Providence Hospital. $500,000. Noted Jan. 29.

Buildings—Commercial (Continued)

Calif., Redding — GARAGE — Mayo, Cowell & Bissell, archts., 21 South San Joaquin St., Stockton, taking bids 100 x 140 ft., brick and concrete garage, here, for J. D. Wease. $200,000.

Calif., Sacramento — DEPOT — Bliss & Faville, archts., Balboe Bldg., San Francisco, taking new bids rein.-con. passenger and freight depot, here, for Southern Pacific R.R. Co., 65 Market St., San Francisco. $300,000. Noted Apr. 2.

BIDS RECEIVED

N. Y., New York—HOUSE OF DETENTION—W. W. Mills, comr. Plant & Structures, Municipal Bldg., steel framework, foundation walls, column footing, etc. for womens court and detention house, 30th St. between 6th and 7th Aves., from Willetts Constr. Co., 280 Madison Ave., $145,700. Noted Apr. 16.

CONTRACTS AWARDED

N. Y., New York—OFFICE and STORE —V. Astor, 23 West 26th St., 15 story, brick, steel and stone, plain foundation, 33rd St. and 5th Ave., to Marc Eidlitz & Son, 30 East 42nd St.

N. Y., New York — OFFICE — Magoba Constr. Co., Inc., 103 Park Ave., will build brick, steel and stone, plain foundation, 52 West 37th St., by day labor. $800,000. Private plans.

N. Y., New York—SANITARIUM—H. M. Hays, 22 West 74th St., 9 story, brick, steel and stone, plain foundation, 168 West 76th St., to G. Richard Davis, 30 East 42nd St.

Pa., Chester — WAREHOUSE — W. E. Headley, 5th Upland Sts., 5 story and basement, 101 x 126 ft., rein.-con. and brick, plain foundation, to Chester Constr. Co., Crozer Bldg.

Md., Baltimore — EXCHANGE — McKenzie, Voorhees & Gmelin, archts., 1343 H St., Wash., D. C., 3 story and basement, 59 x 143 ft., brick and steel, plain foundation, 1915-33, Madison Ave., to J. H. Miller, Inc., Eutaw and Franklin Sts., for C. and P. Telephone Co., 5 Light St. $150,000.

Md., Baltimore—OFFICE and STORE—I. Silberstein, 402 St. Paul St., 2 story, 109 x 113 ft., brick and steel, plain foundation, Baltimore and Lloyd Sts., to Consolidated Eng. Co., 20 East Franklin St. $150,000. Noted Mar. 5.

Fla., St. Augustine — OFFICE — Florida East Coast Ry., St. Augustine, 4 story, rein.-con., steel, brick and terra cotta, to W. P. Thurston Co., Virginia Ry. & Power Bldg., Richmond, Va., approximately $200,000.

Tenn., Knoxville — Y. W. C. A., Clinch and Walnut Sts., W. J. Savage, chn. Building Comn., 4 story and basement, rein.-con. and brick building, incl. swimming pool, dormitories, etc., to Gervin & Gervin, Knoxville, $175,000. Noted Nov. 27.

O., Cincinnati—HOTEL—Royalton Realty Co., 42 Pickering Bldg., 7 story and basement, 80 x 90 ft., rein.-con. and brick, plain foundation, Garfield Pl., to Ferro Constr. Co., Elm St., $450,000.

O., Cleveland — COMMERCIAL and APARTMENT—S. Newman, 10710 Drexel Ave., 2 story and basement, 65 x 200 ft., brick and timber, Euclid and Wymore Aves., to J. Miller, 10819 Drexel Ave. Archts. est. $150,000.

O., Cleveland—STORE and APARTMENT —Coventry Leasehold Co., c/o H. Caplin, 3469 East 123rd St., 3 story and basement, 70 x 155 ft., brick, Lancashire and Coventry Rds., to B. Zuckerman, 11605 Kinsman Rd. Archts. est. $200,000. Noted Aug. 7.

O., Lakewood (Cleveland P. O.)—STORE and APARTMENT — H. A. Lattin, 310 Lakeside Ave. N. W., Cleveland, 3 story and basement, 60 x 128 ft., brick and timber, 14900 Detroit Ave., to J. E. Christian Co., 1307 St. Clair Ave., Cleveland. Archts. est. $150,000. Noted Apr. 16.

Wis., Madison — STORE, OFFICE and APARTMENT—O. Rennebohm, 1320 University Ave., 3 story and basement, 50 x 102 ft., rein.-con., brick and steel, plain foundation, University Ave., to J. H. Findorff, 601 West Wilson St. Archts. est. $150,000. Noted Apr. 16.

Wis., Milwaukee—APARTMENT—Dorilton Arms Co., c/o A. C. Runzler, archt., 144 Oneida St., 3 story and basement, 50 x 132 ft., brick and tile, plain foundation, Royale Pl., to Hercules Constr. Co., 114 Grand Ave.; masonry, concrete work, to A. Nuedling & Son, 1124 46th St. Archts. est. $165,000.

Wis., Milwaukee — APARTMENT — Solidity Realty Co., c/o C. J. Keller & Son, archt., 432 Brdway., 4 story and basement, 57 x 120 ft., brick and concrete, plain foundation Wells St., to H. Schmitt & Son, 430 Farwell Ave. Archt. est. $160,000.

Wis., Wauwatosa — CLUBHOUSE—Blue Mound Country Club, G. Gregg, secy., 437 East Water St., Milwaukee, 2 story and basement, 255 ft. long, rein.-con. and brick, plain foundation, Burleigh Rd., to W. W. Oeflein, 86 Michigan St., Milwaukee. $150,000. Noted Mar. 19.

Ia., Sioux City—APARTMENT—Sioux Apartment Hotel Co., c/o A. Sanford, mgr., 307 Francis Bldg., general contract 6 story and basement, rein.-con., brick and stone, 21st and Summit Sts., to W. A. Klinger, Warnock Bldg. Archts. est. $600,000.

Kan., Topeka—HOTEL—A. Jacobson, 5th and Kansas Aves., general contract 4 story and basement, 45 x 150 ft., rein.-con., brick and stone, 5th and Kansas Sts., to Swenson Constr. Co., Shubert Theatre Bldg., Kansas City. $115,000.

Tex., Corpus Christi — BANK and OFFICE—City Natl. Bank, 6 story and part basement, rein.-con., brick, stone and steel addition, plain foundation, to J. DePuy, Bedell Bldg., San Antonio, $180,000. Noted Feb. 27.

Tex., Donna — EXPOSITION—Intercontinental Fair Assn., (1st unit) 2 story, star shaped building, incl. five 60 x 130 ft. wings, rein.-con. and hollow tile, to C. W. Moore, 609 West 16th St., Austin, and R. Moore, Donna, $300,000.

Wash., Seattle — APARTMENT — C. S. Leede, Cobb Bldg., Seattle, 6 story and basement, 120 x 120 ft., rein.-con. and terra cotta, Boren and Union Aves., to T. A. Lofthus, Leary Bldg., $325,000.

Calif., Los Angeles — CLUB — Masonic Club, 4 story and basement, 70 x 150 ft., rein.-con., Grand Ave., to H. Baruch, 441 I. W. Hellman Bldg., $155,000.

Calif., Los Angeles—HALL—Los Angeles Co., general contract Patriotic Hall, 5 story and basement, brick, rein.-con. and hollow tile, to C. T. McGrew & Sons, 1345 West Ocean Blvd., Long Beach, $160,163. Noted Apr. 9.

Calif., Los Angeles — HOTEL — P. A. Weeger, 3306 West 6th St., will build 4 story and basement, 59 x 123 ft., brick and timber, 608 South St. Andrews Pl., by day labor. $185,000. Gogerty & Weyl, 816 Guarantee Bldg., archts.

Calif., Los Angeles — HOTEL — J. W. Weitzman, 1049 South Hill St., will build 5 story and basement, 60 x 150 ft., brick and steel, Beacon Ave., by day labor. $150,000.

Calif., Los Angeles—HOTEL and STORE —Business Development Co., Merchants Natl. Bank Bldg., 6 story and basement, rein.-con., Galdys and 6th Sts., to H. H. Hinds, 351 South Hoover St., approximately $275,000. Noted Mar. 2.

Calif., Los Angeles — LOFT — B. M. Precita, archt., and E. R. Newcomb, engr., Pantages Theatre Bldg., 12 story and basement, 48 x 160 ft. loft, South Los Angeles St., to J. Simpson Co., 913 Pantages Theatre Bldg., for A. S. Theberge, 715 Camden Dr., Beverly Hills. $192,000. Noted Mar. 12.

Calif., Los Angeles — OFFICE and STORE—Commercial Building & Finance Corp., c/o Morgan, Walls & Clements, archts., Van Nuys Bldg., 2 story, 180 x 300 ft., brick, La Brae and Santa Monica Blvds., to Simpson Constr. Co., 6331 Hollywood Blvd. $150,000. Noted Feb. 12.

Calif., Los Angeles—STORE and LOFT—Harris & Frank, 443 South Spring St., 8 story and basement, 60 x 150 ft., rein.-con., Hill St., to J. V. McNeill, 5860 South Park Ave., $285,500.

Calif., San Francisco—APARTMENT—Post & Leavenworth Realty Co., c/o S. Schaittacher, archt., 233 Post St., 6 story and basement, rein.-con., Post St., to G. P. W. Jensen, 320 Market St., $155,000 to $175,000.

Buildings—Educational, Religious

PROPOSED WORK

Mass., Brighton (Boston P. O.) — SCHOOL—Schoolhouse Dept., Boston, J. P. Glynn, chn., plans 2 story and basement, brick school, Bennett Dist., here. $150,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.)—CHAPEL—Harvard University plans new chapel on site of Old Appleton Chapel. $1,000,000. Engineer and architect not selected.

Mass., Charlestown (Boston P. O.) — SCHOOL — School House Dept., Boston, plans school in Warren Bunker Hill Dist., here. $150,000. Engineer and architect not selected.

Mass., Lowell—CHURCH—Greek Orthodox Society rejected bids 1 story and basement, 90 x 95 ft., brick and stone, plain foundation, Clark St. and Hancock Ave. $150,000. Will readvertise. Ashton, Huntress & Alter, 479 Essex St., Lawrence, archts Noted Apr. 16.

Mass., Mattapan (Boston P. O.) — CHURCH and SUNDAY SCHOOL—Mattapan Methodist Episcopal Church, T. Hancock, pastor, having plans prepared by Woodbury & Stuart, 581 Boylston St., Boston, 1 story, 40 x 85 ft., with 35 x 60 ft. ell, rein.-con. and stone, plain foundation, Blue Hill Parkway. $150,000. Noted July 17.

Mass., Roxbury (Boston P. O.) — SCHOOL—School House Dept., Boston, T. P. Glynn, chn., having sketches made by H. H. Atwood, 61 Alban St., Dorchester, 2 story and basement, brick and stone school, here. $1,480,000.

Mass., Saugus—SCHOOL—Town, C. W. Hanson, chn. com., 128 Essex St., plans 2 story and basement, brick and stone school $150,000. Engineer and architect not selected.

Mass., West Roxbury (Boston P. O.)—SCHOOL—Schoolhouse Dept., Boston, plans 2 story and basement, brick and stone, in Robert Gould Shaw Dist., here. $246,000 Engineer and architect not selected.

R. I., Warren—SCHOOL—Town, H. De Wolf, chn. building comn., having plans prepared by A. H. Hume, 332 Main St., Pawtucket, 2 story and basement, brick and steel school. $150,000.

La., Jennings—SCHOOLS—Election June 9, $600,000 bonds, new schools, for Bd. Educ. Jefferson Parish.

Tenn., Bristol — SCHOOL and FIRE HALL—Voted $150,000 bonds, for schools and $50,000 bonds for fire hall. Noted Feb. 19.

Tenn., Knoxville — SCHOOLS — Election May 15, $2,225,000 bonds for new schools, etc.

Tenn., Nashville—COLLEGE—Southern Y. M. C. A. Training College, Wesley Hall, W. D. Weatherford, pres., raising $500,000 funds for new building.

O., Cleveland—CHURCH, etc.—St. Pauls Episcopal Church, W. R. Breed, pastor, 4108 Euclid Ave., having plans prepared by Walker & Weeks, 1900 Euclid Bldg., 1 and 2 story, brick, steel and concrete church, parish house and rectory, Coventry Rd. and Fairmount Blvd. $400,000.

O., Tiffin—HALL—Heidelberg University, Tiffin, soon lets contract France Hall, 3 story and basement, brick, steel and concrete. To exceed $150,000. Miller, Fullenweider & Dowling, 646 North Michigan Ave., Chicago, Ill., archts.

Wis., Madison—CHURCH, etc.—Wisconsin Branch Amer. Lutheran Society, R. A. Pieper, secy., Clintonville, having plans prepared by H. C. Haueser, Milwaukee St., Milwaukee, 2 story, brick and rein.-con. church, chapel and community house, Fetch St. $150,000.

Ill., Chicago—CHURCH—Fourth Congregational Church, c/o W. C. Jones, archt. and engr., 19 South La Salle St., having plans prepared 1 story and basement, 75 x 100 ft., rein.-con., brick and stone, plain foundation, Talman St. and Logan Blvd. $150,000.

Ill., Chicago — COMMUNITY — Jackson Boulevard Christian Church, 2446 Jackson Blvd., having plans prepared by W. C. Jones, engr. and archt., 19 South La Salle St., 4 story and basement, 75 x 100 ft., rein.-con., brick and stone, plain foundation, Jackson and Western Aves. $200,000.

Ill., Glen Ellyn — SCHOOL — Bd. Educ. Dist. 89, J. Wagner, pres., having plans prepared by F. G. Walker, 717 Forest Ave., 2 story and basement, 54 x 70 ft., rein.-con., brick and stone, plain foundation $150,000.

Ill., Harvey—HIGH SCHOOL—Bd. Educ., G. N. Burnett, 15544 Loomis St., having plans prepared by Chatten & Hammond, 160 North La Salle St., Chicago, 2 story and basement, 190 x 200 ft., rein.-con., brick, steel and stone, plain foundation, 151st and Columbia Sts. $350,000. F. L. Randell, 160 North La Salle St., Chicago, engr.

Tex., Amarillo—CHURCH—Central Presbyterian Congregation, R. T. Thomsen, pastor, plans church, 10th and Taylor Sts. $200,000. Engineer and architect not selected.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ. had plans prepared by J. C. Austin & F. M. Ashley, Chamber of Commerce Bldg., and soon takes bids general construction 2 story, 69 x 146 ft., brick high school, 4066 West 17th St. $345,000.

Calif., Richmond — HIGH SCHOOL — Plans election $150,000 or more bonds for high school, 23rd St. A. C. Faris, city clk.

Calif., San Francisco—HIGH SCHOOL—City and San Francisco Co., having plans prepared by J. Reid, City Hall, probably rein.-con. school, Laguna, Webster, Chestnut and Bay Sts. $1,200,000.

Calif., Santa Monica — SCHOOL — City having preliminary plans prepared by F. D. Rutherford, Mills-Fraser Bldg., timber, 10th St. $150,000.

Calif., Wilmington—HIGH SCHOOL—Bd. Educ. had plans prepared by J. C. Austin & F. M. Ashley, Chamber of Commerce

Buildings, Educational, Religious (Cont.)

Bldg., and soon takes bids 3 story, 248 x 288 ft., brick and concrete high school and shop, 1500 Canal Ave. $385,000. Noted Dec. 4.

BIDS DESIRED

Me., Fairfield—HIGH SCHOOL—Town, R. A. Jewell, chn. building comn., taking bids 2 story and basement, brick and stone high school. $150,000. Miller & Mayo, 465 Congress St., Portland, archts.

Mass., Chelmsford—SCHOOL—School Bd. taking bids 2 story and basement, brick school. $150,000. H. P. Graves, 40 Middlesex St., Lowell, archt. Noted Dec. 4.

Mass., Danvers — REFECTORY — St. Johns Prep. School taking bids 2 story and basement, 80 x 182 ft., brick and Indiana limestone, plain foundation. $200,000. M. Sullivan, 100 Boylston St., Boston, archt.

Mass., Worcester—SCHOOL—City, J. B. Moss, chn. com., taking bids 5 story and basement, 52 x 180 ft., brick and steel addition to Boys Trade School. $250,000. L. W. Briggs, 314 Main St., archt. Noted Mar. 19.

Conn., Ridgefield—HIGH SCHOOL—May 2, by School Com., 2 story and basement, 30 x 125 ft., brick and steel addition. $150,000. Sunderland & Watson, 248 Main St., Danbury, archt. Noted Apr. 16.

Pa., West Chester — AUDITORIUM — May 7, by Westchester Normal School, G. M. Phillips Memorial Auditorium, 1 and 2 story and basement, 64 x 162 ft., rein.-con., stone and steel, plain foundation. $300,000. Price & Walton, 119 South 4th St., Phila., archts. Noted Apr. 16.

Miss., Jackson—CHURCH—May 9 (extended date), by N. W. Overstreet, archt., Jackson, fireproof church, for First Baptist Church. $350,000. Noted Apr. 16.

O., Lorain — CHURCH and SUNDAY SCHOOL—First Congregational Church, L. C. Grant, pastor, 433 Washington St., taking bids 1 story and basement, 80 x 125 ft., brick, stone and steel church and Sunday school. $160,000. W. H. Nicklas, 1227 Prospect Ave., Cleveland, archt. Noted Nov. 27.

Mich., Muskegon—SCHOOL—May 5, by M. A. Rockenbach, clk. Bd. Educ., Hackley School Bldg., 2 story and basement, rein.-con., brick and steel, plain foundation, Nelson School site. $150,000. Turner & Thebaud, Michigan Trust Bldg., Grand Rapids, archts.

Mich., Newago—HIGH SCHOOL—May 5, by C. R. Walcott, secy. Bd. Educ., 2 story and basement, rein.-con., brick and steel high school, plain foundation. $150,000. Turner & Thebaud, Michigan Trust Bldg., Grand Rapids, archts.

Ill., Chicago—CHURCH—J. C. Llewellyn, archt. and engr., 39 South Dearborn St., taking bids 3 story and basement, 90 x 125 ft., rein.-con., brick and stone, plain foundation, 64th and Stewart Sts., for Englewood Baptist Church, 6248 Stewart Ave. $150,000.

Ill., Chicago—SCHOOLS—May 5, by Bd. Educ., J. C. Byrnes, bus. mgr., 650 South Clark St., 2 story and basement, rein.-con., brick and stone, plain foundation, 114th and Stewart Sts. $400,000. J. C. Christensen, 650 South Clark St., archt. Noted Dec. 25.

Ill., Glen Ellyn—SCHOOL—May 4, by L. R. Christie, archt., 111 West Jackson Blvd., 2 story and basement, 66 x 81 ft., rein.-con. brick and stone, plain foundation, for Bd. Educ. Dist. 41, B. F. March, 140 West Dearborn St., Chicago, secy.

Minn., Minneapolis—SCHOOL—May 8, by Bd. Educ., City Hall, 3 story and basement, rein.-con., brick, tile and stone addition Spruce Pl. and 14th St. Bureau of Buildings, Div. of Design & Inspection, archts. Noted Dec. 4.

Tex., Austin—RECITATION—May 19, by University of Texas, E. J. Mathews, secy. Bd. Regents, 3 story and basement, 83 x 154 ft., rein.-con., brick and stone, on campus. $350,000. H. M. Greene Co., North Texas Bldg., Dallas, archt. Noted Jan. 1.

Tex., Dallas—CHURCH—R. H. Hunt Co., archts., Southwestern Life Bldg., taking bids 2 story and basement, 160 x 232 ft., rein.-con., brick, steel and stone, plain foundation, Ross and Harwood Sts., for First Methodist Congregation, c/o M. C. Cameron, 3800 Stratford St.

Tex., Hull—SCHOOLS—May 27, by Hull Independent School Dist., Liberty Co., constructing school buildings. $197,000. W. C. Morgan, Box 186, dist. bus. agt.

BIDS RECEIVED

Mass., Roxbury (Boston P. O.) — SCHOOL—Schoolhouse Dist. Boston, Apr. 17, 3 story and basement, 50 x 120 ft., brick and stone addition to Sherwin Dist. School, plain foundation, from J. Bowen Co., 184 Dudley St., Roxbury, $326,302.

O., Euclid—SCHOOLS—Bd. Educ., J. B. Clark, clk., 1550 Chardon Rd., 4 school additions and 1 new grade school, each 1 and 2 story, brick, steel and concrete, from J. H. Moore, 18,112 Landsee Rd., Cleveland, $329,987; 4 buildings from W. F. Hendrich Co., 2777 East 52rd St., Cleveland, $229,109; 1 building, from C. Peterson Constr. Co., 4500 Euclid Ave., Cleveland, $95,485. Noted Mar. 19.

CONTRACTS AWARDED

Mass., Arlington (Boston P. O.)—SCHOOL—Bd. Educ., 2 story and basement, 80 x 155 ft., brick and stone Lake St., to J. P. Keating, 80 Boylston St., Boston, $129,500; heating system, to Huey Bros., 85 Purchase St., Boston, $22,217. Noted Apr. 9.

Mass., North Cambridge (mail Cambridge)—CONVENT—St. John's Parish, J. T. Kelly, pastor, Hollis St., 3 story and basement, brick addition, Ringe Ave., to P. F. Haley, 22 Church St., Cambridge. Archts. est. to exceed $150,000.

Mass., Swampscott — CHURCH — First Congregational Church, 1 story and basement, 60 x 100 ft., brick and stone, Burrill St., to L. R. Porter, 6 New Derby St., Salem. Archts. est. $150,000. Noted Apr. 9.

R. I., Providence — SCHOOL — Brown University, Prospect St., 2 story and basement, brick and steel, Manning St., to C. B. McQuire Co., 507 Grosvenor Bldg. Archts. est. $170,000. Noted Apr. 23.

N. J., Englewood — PARISH HOUSE — Englewood Presbyterian Church, 3 story and basement, stone and stucco, to J. L. Bried, Booth Ave. Archts. est. $150,000. Noted Apr. 9.

Ala., Ensley—SCHOOL—School Bd. Jefferson Co., 3 story, 150 x 300 ft. school, to W. L. Coston, Bessemer, $260,000.

O., Cleveland Heights (Warrensville P. O.)—HIGH SCHOOL—Bd. Educ., W. G. Nesbit, dir., 1805 Lee Rd., Cleveland, 3 story and basement, brick, steel and concrete, Cedar and Lee Rds., here, to Schirmer-O'Hara Co., 1720 Euclid Ave., Cleveland, $1,035,252. Noted Apr. 16.

Wis., Burlington — HIGH SCHOOL — St. Mary's Congregation, J. Van Treeck, pastor, 2 story and basement, 62 x 100 ft., brick and tile, plain foundation, to Whitewater Bridge Co., Whitewater. Archts. est. $200,000.

Ia., Des Moines—SCHOOLS—Bd. Educ., G. L. Garton, secy., general contract Howe School addition and Rice School addition, to Garmer-Giles Co., 519 14th St., $54,777 and $52,939 respectively; Hubbell School addition, to Des Moines Constr. Co., 1432 46th St., $46,717. Noted Apr. 23.

Ia., Iowa City—MEDICAL LABORATORY—State Bd. Educ., Des Moines, general contract 3 story and basement, 210 x 316 ft., rein.-con. brick, steel and stone, campus, here, to Trapager Constr. Co., Albert Lea, Minn., $502,135. Noted Mar. 26.

Mo., Kansas City—HIGH SCHOOL—Bd. Educ., Public Library Bldg., general contract Junior High School, 3 story and basement, 27,000 sq.ft. floor space, concrete plain foundation, Independence Ave. and Chelsea St. to Patti-Moore Constr. Co., 411 Jenkins Bldg., $332,900, heating and plumbing, to M. D. Woodling Heating & Ventilating Co., 1227 Wyandotte St., $67,756. Noted Feb. 26.

Tex., Houston — HIGH SCHOOLS — Bd. Educ., H. L. Hills, bus. mgr., general contract 2 Junior High Schools, each 3 story, rein.-con., brick, steel and stone, 1 at Eastwood addition, to C. Curtis, 200 Preston Ave., $333,552; other at Norhill addition, to C. W. Raper & Son, 1709 Yale St., $337,400. Bids for sub-contracts about May 1. Noted Feb. 26.

Calif., San Francisco — SCHOOL — Bd. Pub. Wks., Le Conte School, to Anderson & Ringrose, 320 Market St., for City & San Francisco Co. $259,860. Noted Apr. 16.

Federal Government Work

PROPOSED WORK

Del., Wilmington—Bridges—U. S. Engineer Office, War Dept., Wash., D. C., rejected bids Mar. 20, 2 highway bridges across Chesapeake and Delaware Canal, here. Noted Mar. 5.

D. C., Wash.—Superstructure of Filtration Plant—U. S. Engineer Office, Old Land Office Bldg., 8th and E Sts. N. W., takes bids about May 1, superstructure for filtration plant. $1,000,000. M. H. Blake, archt., and D. M. Radcliffe, engr., both at Room 242, Old Land Office Bldg.

La., New Orleans — Levee Work — U. S. Engineer Office, War Dept., Wash., D. C., rejected bids levee work in Caenarvon Levee, in Lake Borgne Dist., here.

H. T., Pearl Harbor—Accessories House—Spec. 5097—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids marine railway accessories house, here.

BIDS DESIRED

R. I., Melville — Chimney — May 13, by Bureau Yards & Docks, Navy Dept., Wash., D. C., radial brick chimney, here. Noted Apr. 9.

N. J., Oceanport — Quarters — May 21, by Constructing Quartermaster, Camp Alfred Vail, 2 sets of officers quarters; adv. E. N.-R. Apr. 30.

S. C., Charleston—Dredging—May 4, by U. S. Engineer Office, War Dept., Wash., D. C., dredging 17,000 cu.yd. in Charleston Harbor at upper end of Drum Island, here. Noted Apr. 2.

Fla., Lake City—Hospital—May 26, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., mess hall, kitchen, garage, etc., at Hospital 63, here; adv. E. N.-R. Apr. 30.

Ala., Florence—Transmission Line—May 4, by U. S. Engineer Office, War Dept., Wash., D. C., high tension transmission line from Wilson Dam to U. S. Nitrate Plant 2, here.

Tenn., Memphis—Brush and Poles—May 20, by U. S. Engineer Office, War Dept., Wash., D. C., 65,000 cords brush and poles, here.

Ky., Louisville—Steel, Castings, etc.—May 15, by U. S. Engineer Office, P. O. Box 72, steel, castings, etc., for Lock 53, Ohio River; adv. E. N.-R. Apr. 30.

Mich., Detroit—Dike—May 22, by U. S. Engineer Office, repairing center dike, St. Clair Flats Canal; adv. E. N.-R. Apr. 30.

Colorado—Road—May 6, by J. W. Johnson, dist. engr. Bureau Pub. Rds., 301 Custom House Bldg., Denver, grading Cumbres Pass-Natl. Forest Rd.

Wash., Aberdeen—Post Office—May 19, by Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here.

BIDS RECEIVED

Mass., Northampton—Recreation—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., Apr. 21, recreation building at U. S. Veterans Hospital, here, from D. A. Sullivan & Sons, Northampton, (1) $107,429 (2) $19,530 (3) $213, earth excav. $1.50, rock excav. $8, earth fill $2.50, type A concrete $21, type B concrete $23, reinforcing steel $90. Noted Mar. 26.

Ala., Florence — Cylinder Valves, etc. — U. S. Engineer Office, 4 sets cylinder valves, at Lock 1, from Hardie Tynes Mfg. Co., 800 North 28th St., Birmingham, $12,869.

Ala., Florence—Roofing—U. S. Engineer Office, War Dept., Apr. 7, built up bituminous roofing for generator lead tower, switchboard and oil circuit breaker buildings, and on certain portions of generator lead gallery, from Hinkle Bros. Co., 2416 Ave. E., Birmingham, $18,389. Noted Apr. 2.

Wis., Milwaukee—Tug—U. S. Engineer Office, Federal Bldg., Apr. 14, steel side wheel tug, from Marine Iron & Shipbuilding Co., foot 11th Ave. W., Duluth, Minn., $61,175. Noted Mar. 19.

Nevada—Roads—C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, Calif., paving 5.75 mi. Grimes Sect. Austin-East Natl. Forest Highway, Lander Co., here, from A. D. Drumm, Jr., Fallon, $35,742; 2 mi. grading and 19.46 mi. gravel surfacing Austin-West Natl. Highway, Lander Co., here, from K. Hodgman, Reno, $74,809. Noted Apr. 9.

California—Bridge—C. H. Sweetser, dist. engr. Bureau Pub. Rds., 9 Main St., San Francisco, bridge over Salmon River, near Oak Flat, from Mercer-Fraser Co., Eureka, $19,924. Noted Apr. 16.

California—Roads—G. E. Goodwin, ch. civil engr., Yosemite Natl. Park, Yosemite, Apr. 10, paving 7.75 mi. El Portal Rd. and 13 mi. Valley roads, (1) asphaltic concrete (2) 5 in. concrete, (3) 6 in. concrete, from V. R. Dennis Constr. Co., 603 Bryte Bldg., Sacramento (1) $335,805; from Galbraith & Janes, P. O. Box 537, Napa, (2) $498,231 (3) $570,007.

CONTRACTS AWARDED

Mass., South Boston—Capstans—Spec. 5069—Bureau Yards & Docks, Navy Dept., Wash., D. C., capstans, pits, bollard foundations and piers, here, to Rendle Corp., 271 Marginal St., Chelsea, (1) $14,350 (2) $160. Noted Apr. 16.

Pa., Phila.—Pipe Line—U. S. Engineer Office, War Dept., Wash., D. C. 20 in. pipe line, here, to Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $720,000. Noted Apr. 2.

La., New Orleans—Levee Work—U. S. Engineer Office, War Dept., Wash., D. C., levee work in Lower Tensas Levee Dist., here, to H. T. Van Fossen, Lake Providence, Bondinart Levee $8,670, to T. W. Roach, Memphis, Tenn., Helena Concordia Levee $118,150, Bougere Middle Levee $374,000; in Atchafalaya Levee Dist., to O. O. Ogden, Roumain Bldg., Baton Rouge, New Hope Levee $105,600, to D. B. Hearin,

Federal Government Work (Continued)

Baton Rouge, Tennessee Levee $36,731, to Dameron & Kenyon, Baton Rouge, Catherine Levee $39,200; in Barataria Levee Dist., to H. A. Schoenberger, Triumph, Belle Chasse Levee $7,800, to Onion & Grau, New Orleans, Socola Levee $2,856, Home Place Levee $3,150, to P. M. Adams, Point A la Hache, Amoretti Levee $7,013; in Atchafalaya Levee Dist., to Lower Coast Constr. Co., Godchaux Bldg., White Castle Levee $4,500, Derr Range Levee $8,100, Ormond Levee $8,450, and Red Church Levee $6,500, latter 2 levees in Pontchartrain Levee Dist. Noted Mar. 26.

Tenn., Memphis—Levee Work—U. S. Engineer Office, War Dept., Wash., D. C., levee work in Lower St. Francis Levee Dist., here, to Lawrance Bros. & Co., Memphis, $18,480.

Tex., Galveston — Dredging — U. S. Engineer Office, dredging Sabine Neches Waterway, 1,500,000 cu.yd. excav., to Reynolds Dredging Co. Inc., 832 Maison Blanche Bldg., New Orleans, La., $0.094 per cu.yd. Noted Mar. 5.

Cuba, Guantanamo—Water Tank—Spec. 5006—Bureau Yards & Docks, Navy Dept., Wash., D. C., steel water tank, here, to Wickes Constr. Co., 1441 Bluff St., Des Moines, Ia., $4,974 (120 days). Noted Apr. 23.

FEDERAL POWER COMMISSION

Application for Licenses and Permits

Applications

590—Snow Storm Silver Lead Co., 922 Old Natl. Bank Bldg., Spokane, Wash.—Wants license for diversion dam with conduit and power house in Callahan Creek, near Troy, Lincoln Co., Mont.

591—W. W. Cunningham, Mono Lake, Calif.—Wants license for small 40 hp. development in Thompson Creek, Mono Co.

592—H. W. Coe, 516 Selling Bldg., Portland, Ore.—Wants preliminary permit for storage dam and reservoir about 7 mi. westerly from Spirit Lake in Toutle River, Skamania and Cowlitz Counties, Wash.

593—J. W. Preston, Jr., 350 Post St., San Francisco, Calif.—Wants preliminary permit for diversion of waters between forks of Mokelumne and North Fork Calaveras with McCarty reservoir on latter, and Bear Creek reservoir on middle fork Mokelumne, and 3 power houses on south and middle forks Mokelumne and north fork Calaveras, Calaveras Co.

594—J. A. Shafer, 1008 Odd Fellows Bldg., Indianapolis, Ind. — Wants preliminary permit 2 dams 50 ft. high, one 1½ mi. above Doniphan and other about 4 mi. below Chilton, in Current River, Ripley and Carter Counties, Mo.

Unclassified

PROPOSED WORK

Gas Distribution System—Pineville, La.—Soon takes bids gas distribution system. $25,000 bonds sold.

Power Line—Chattanooga, Tenn.—Tennessee Power Co., E. D. Reed, supt., 317 Walnut St., plans underground power lines in business section. $54,000.

Police Alarm System, etc. — Knoxville, Tenn.—City Council appropriated $55,000, equipping police postal box alarm system, and $10,000, installing traffic light system. Brownlow, mayor.

Refrigeration System—Knoxville, Tenn.—City Council appropriated $30,000, refrigeration system for city market. L. Brownlow, mayor.

Foundation — Cleveland O. — Cleveland Union Terminal Co., Marshall Bldg., had plans prepared by H. D. Jonett, archt. and engr., Ulmer Bldg., Cleveland, 100 x 100 ft. rein.-con. foundation 100 ft. deep, for center tower of new Union Depot, Public Sq. $360,000.

Lighting System—Cleveland, O.—City, H. Wright, dir. Pub. Utilities, City Hall, having preliminary plans prepared by C. G. Beckwith, engr. and archt., City Hall, lighting system extensions. $300,000.

Grand Stand and Race Track—San Antonio, Tex.—International Exposition, W. A. Wurzbach, pres., plans rein.-con. grandstand at Exposition site, etc. $30,000 or more. $500,000 funds being raised for entire International Exposition project.

Golf Course — Byron, Calif. — Byron Springs Golf Club, Byron Hot Springs, plans 150 acre golf course, clubhouse and water system, here. To exceed $100,000.

Gas Generator—Oakland, Calif.—Pacific Gas & Electric Co., 455 Sutter St., San Francisco, plans 5,000,000 cu.ft. gas generator, Market St. Private plans.

Drilling for Gas—Chatham, Ont.—Union Natural Gas Co., Chatham, plans drilling for gas in Dawn (Dresden), Dover (Chatham) and Tilbury (Tilbury) Twps. $100,000. S. A. Morse, c/o owner, engr.

Bulkhead — Toronto, Ont. — Harbor Comrs., Harbor Bldg., plans concrete bulkhead on piles, in harbor, from Scott to Cherry Sts. $350,000. J. R. Wainwright, Harbor Bldg., engr.

BIDS DESIRED

Borings — New York — May 8, by Bd. Transportation, 49 Lafayette St., New York City, land and river borings in East River from Wall St. (Manhattan) to Cranberry St. (Brooklyn) Route 101, from Rutgers St. (Manhattan) to Jay St. (Brooklyn) Route 103, from East 53rd St. (Manhattan) across Welfare Island to Nott Ave. (Queens) Route 104, Newtown Creek at Van Alst Ave. (Queens) Route 107-E.

Fire Alarm System—Ogdensburg, N. Y.—May 27, by State Hospital Comn., Albany, fire alarm system at St. Lawrence State Hospital, here. S. W. Jones, state archt.; adv. E. N.-R. Apr. 30.

Street Lighting System — Watertown, N. Y.—May 14, by City, street lighting system. P. B. Sutton, city engr.

Steam Heating Plant—Doylestown, Pa.—May 11, by Comrs. Buck Co., steam heating plant in court house; adv. E. N.-R. Apr. 30.

Transmission Line—Minnesota—May 4, by City of Detroit, E. J. Bestick, clk., transmission line from south city limits to Shoreham; distribution line along shores of Detroit lake and at Shoreham and changes in present line, approximately 263 poles, step up and distribution transformers, $25,000. L. P. Wolff, 903 Globe Bldg., St. Paul, consult. engr.

Street Lighting System—Brainerd, Minn.—May 5, by W. D. McKay, secy. Water & Light Bd., 127 Class A and 75 Class B single light posts, 56,637 ft. No. 6 and 1,026 ft. No. 2 single conductor insulated cable for street lighting system on various streets. $25,000.

Wharf, etc.—Goderich, Ont.—May 12, by S. E. O'Brien, secy. Dept. Pub. Wks., Parliament Bldgs., Ottawa, new wharf and reconstructing breakwater, here, concrete and timber. $35,000. K. M. Cameron, ch. engr.

BIDS RECEIVED

Fill—Phila., Pa. — Apr. 28, by G. W. Biles, dir. Dept. Pub. Wks., fill for stadium east of Broad St. and south of Pattison Ave. Noted Apr. 9.

Mechanical Equipment — Long Island City, N. Y.—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, Apr. 27, mechanical equipment, heating and ventilating apparatus for Jamaica High School, Grand and Chapin Aves., here, from Sheviin Eng. Co., 110 West 34th St., New York City, $238,250. Noted Apr. 23.

Core Borings—Camden, N. J.—State Hy. Comn., Trenton, 1,840 lin.ft. casings to be sunk and core borings, etc. on Bridge Approach Blvd. near Cooper Bridge, here, from Pennsylvania Drilling Co., 1812 West Carson St., Pittsburgh, $4,920. Noted Apr. 9.

CONTRACTS AWARDED

Grain Elevator — Buffalo, N. Y. — J. Stewart Grain Corp., Hurst Bldg., superstructure for grain elevator, Hamburg Turnpike to Monarch Eng. Co., Chamber of Commerce Bldg., $800,000.

Tunnel Improvements—New York, N. Y.—New York State Bridge & Tunnel Comn. and New Jersey Interstate Bridge & Tunnel Comn., Woolworth Bldg., glazed wall tile and enamels, slides, screws, frames, etc., for interior finish of Holland Tunnel, Contr. 7, to L. Del Turco & Bros., Inc., Harrison, N. J., 50% domestic and 50% foreign $881,805. Noted Apr. 16.

Subway — Rochester, N. Y. — Bd. Contr. & Supply, 30 City Hall, subway from Oak St. to Mt. Read Blvd., Contr. 3, to I. M. Ludingtons Sons, Inc., 123 Powers Bldg., $1,937,811. Engrs. est. $2,263,000. Noted Mar. 5.

Subway—Phila., Pa.—H. E. Ehlers, at office Dept. City Transit, 7,184 ft. subway in Broad St. from Stiles to Filbert Sts., to Keystone State Constr. Co., 210 South 13th St., $16,863,437. Noted Mar. 26.

Golf Course—Lakeworth, Fla.—For 400,000 cu.yd. lake front fill for golf course, to Waldeck & Deal Dredging Co., Miami, $97,600.

Grandstand—Canfield, O.—Mahoning Co., Agricultural Society, c/o E. R. Zieger, secy., Wick Bldg., Youngstown, 1 story, 91 x 210 ft., brick and rein.-con. grandstand, to Howell & Noble, Warren. Archts. est. $150,000.

Gas Mains—Illinois—Illinois Power & Light Corp., 414 Missouri Ave., East St. Louis, will build 12 mi. 8 in. gas mains from Edwardsville to East Alton, by day labor. During next 2 years above owner will build 20 mi. additional mains in East Alton, Woodriver, Hartford, Roxana and vicinity. Private plans.

Gas Holder, Manitowoc, Wis.—Wisconsin Fuel & Light Co., 808 Commercial St., 300,000 cu.ft., 2 lift gas holder in steel tank, to E. R. Herman, 808 Commercial St. Archts. est. $50,000.

Dock—Superior, Wis.—Northern Pacific R.R. Co., 5th and Jackson Sts., St. Paul, Minn., 300 x 600 ft. concrete and steel extension to iron ore dock, total length 1,500 ft., on St. Louis Bay, here, to Foley Bros., 209 Gilfillan Bldg., St. Paul, Minn. $500,000 cost plus percentage basis. Owner furnishes steel, etc.

Stadium—Ames, Ia.—Iowa State College, general contract rein.-con. athletic stadium, to F. M. Eller, Ames, $62,700.

Grain Storage Tanks—Hutchinson, Kan.—Security Elevator Co., concrete grain storage tanks, to Jones-Hettelsater Constr. Co., Mutual Bldg., Kansas City, Mo. Engrs. est. $50,000.

Undergrade Crossing—California—State Hy. Comn., Sacramento, undergrade crossing 30 ft. wide, consisting 62 ft. through plate girder, ballast deck bridge on triangular concrete abutments under Western Pacific R.R. tracks, near North Sacramento; undergrade crossing 30 ft. wide, consisting 61 ft. skewed, through steel girder, open deck spans on concrete piers under Sacramento Northern R.R. tracks, near North Sacramento, both Sacramento Co., to Lord & Bishop, Napa, $39,895 and $20,728 respectively. Noted Mar. 26.

Wharf—Oakland, Calif.—General Petroleum Co., Parr Terminal, concrete and timber wharf, water front, to Tibbits-Pacific Co., 16 California St., San Francisco, $60,000.

Materials

BIDS DESIRED

Road Oil—Hartford, Conn.—May 5, by Bd. Contr. & Supply, at Mayor's Office, Municipal Bldg., 300,000 gal. more or less, road oil, with about 45% and 30,000 gal. with about 65% asphaltic base, to Street Dept., f.o.b. tank cars Hartford. E. M. Dahill, secy.; adv. E. N.-R. Apr. 30.

Iron and Steel Castings — New York, N. Y.—May 4, by J. Miller, pres. Manhattan Boro., Municipal Bldg., iron and steel castings to Corporation Yards.

Road Materials—Greensburg, Pa.—May 4, by W. A. Arter, controller Westmoreland Co., road materials, f.o.b. cars at points designated.

Road Materials—St. Paul, Minn.—May 5, by H. W. Austin, city purch. agt., 2,640 bbls. Portland cement, 2,070 cu.yd. crushed rock or gravel, 116 tons asphalt, 193 tons limestone dust, etc. G. M. Shepard, city engr.

Gravel—Port Arthur, Tex.—H. O. Harpin, engr., Port Arthur, taking bids 18,000 sq.yd. clay gravel, f.o.b. trucks Port Arthur. $25,000. J. P. Logan, mayor.

Road Oil—Saulte Ste. Marie, Ont.—May 1, by L. R. Brown, city engr., 20,000 gal. road oil, 40% asphaltic or tar. $5,000.

BIDS RECEIVED

Bituminous Material — Albany, N. Y. — A. W. Brandt, comr. highways, 55 Lancaster St., from L. L. Gowdy, 36 State St., bituminous materials, Contr. 8 $14,850, Contr. 6 $149,949; from Barrett Co., 40 Rector St., New York City, Contr. 4 $40,323, Contr. 5 $315,897; from Atlantic Refining Co., 291 Bway., New York City, Contr. 1 $518,137, Contr. 2 $214,516, Contr. 3 $31,141. Noted Feb. 26.

Pipe—Baltimore, Md.—Bd. Awards, 4,900 lin.ft. 24 in., 1,700 lin.ft. 27 in., 1,800 lin.ft. 30 in., 1,900 lin.ft. 33 in., 3,000 lin.ft. 36 in., 3,750 lin.ft. 42 in., 1,000 lin.ft. 48 in., 700 lin.ft. 54 in. and 300 lin.ft. 60 in. rein.-con. pipe, Contr. 54, from Lock Joint Pipe Co., 9 Rutledge Ave., Ampere, N. J., $46,925.

CONTRACTS AWARDED

Gravel—Asbury Park, N. J.—City Comn., 20,000 tons gravel to Bennett & Shock Gravel & Sand Co., 3rd Ave., Spring Lake. $1.13 per ton.

Steel—Belleville, Mich.—Wayne Co. Rd. Comn., 1103 Real Estate Exch. Bldg., Detroit, 210,000 lb. steel for superstructure of grade separation No. 822,001, Belleville Rd., here, to McClintic-Marshall Co., 1242 Book Bldg., Detroit.

CONSTRUCTION NEWS

Engineering News-Record, May 7, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Drainage system, Toronto, Ont., plans to extend drainage system, $11,000,000.

Roads, Corsicana, Tex., Navarro Co. plans bond election for roads, $7,000,000.

Reclamation, Dewey, Okla., plans reclaiming 50,000 acres, $5,000,000.

Bank and office, New York, N. Y., plans being prepared, $5,000,000.

Paving, Buffalo, N. Y., Erie Co., plans paving 25 mi., $4,000,000.

Dam, Rice, Minn., Minnesota Power & Light Co. plans power dam, $2,000,000.

Office, Santa Cruz, Calif., F. E. Morgan having plans prepared, $1,500,000.

Hospital, Boston, Mass., Homeopathic Hospital Bldg. Comm. plans building, $1,500,000.

Cotton mill, Rome, Ga., Brighton Mills, Inc., plans cotton mill, $1,250,000.

Bank and office, Newark, N. J., Federal Trust Co. having plans prepared, $1,250,000.

Extending street, California, City of San Francisco and San Francisco Co. making plans to extend Potrero Ave., $1,000,000.

Apartment, Dallas, Tex., Rucker & Jones Realty Co. having plans prepared, $1,000,000.

Bids Wanted On Big Jobs

Railroad, Quebec, Canadian National Ry. takes bids about June 1, $3,500,000.

Sea wall, Gulfport, Miss., Bd. Supvrs. Harrison Co. takes bids May 27, $2,000,000.

Stadium, Philadelphia, Pa., Dept. Pub. Wks. takes bids May 12, $2,000,000.

Large Contracts Let During Week

Office, New York, N. Y., J. T. Lee to Rheinstein & Hass, $5,000,000.

Plant, Creighton, Pa., Pittsburgh Plate Glass Co., $4,000,000.

Railroad, Missouri, Missouri Pacific R.R. Co. to Winston Bros, $2,000,000.

Capitol, Lincoln, Nebr., State to J. H. Wiese Co., $1,915,000 and to H. Stuble Art Stone Co., $600,000.

Stock Exchange, Omaha, Neb., Union Stock Yards Co. to P. Kiewits & Sons, $1,500,000.

Plant, Canton, Md., Lockwood, Greene & Co. to Consolidated Eng. Co., $1,000,000.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Boston — City rejected bids high pressure fire pipes in Atlantic and Dorchester Aves., Summer, Richmond, Fulton, Confress Sts. $60,000 bonds. J. A. Rourke, comr. Dept. Pub. Wks. Noted Apr. 23.

Mass., Dorchester (Boston P. O.)—Dept. Pub. Wks., City Hall, Boston plans 10- to 24-in. earthen pipe for surface drain, 14 catch basins and 4 manholes in Minot St. between Adams and Carruth Sts., here. $15,000. J. A. Rourke, comr.

R. I., Warwick—Town Council plans water supply, drains, etc. in various streets. $15,000 or more. Engineer not selected.

W. Va., Mason Town—Election May 15, $30,000 bonds, for waterworks and sewers. F. O. Shatton, recdr.

Ga., Macon—Plans new boiler and pump at Riverside Station, also 2,500,000 gal. capacity reservoir. R. B. Cowen, city mgr.

Miss., Jackson—Election May 16, $110,000 bonds, for waterworks."

La., Augurs—Election May 19, $37,500 bonds, mains and distribution system. C. D. Evans, 309 Levy Bldg., Shreveport, engr. Noted May 5.

O., Sheffield—Village plans 9 mi. pipe line for water supply system. W. A. Stinchcomb Co., Penton Bldg., Cleveland, engrs.

O., Youngstown—Bd. Control soon takes bids 16 m.g. pump for filtration plant and 10 m.g. pump for pumping station, also 43,447 ft. mains in various streets. $125,000. H. F. Kaercher, supt. waterworks.

Wis., Racine—Water Comn., F. M. McElroy, supt., making plans filtration plant. $300,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., engrs.

Neb., Milford — Voted $23,000 bonds for waterworks, incl. pumping equipment, distribution mains, etc.

Wyo., Evansville—Voted $60,000 bonds, improving and enlarging water system. Wheeler & Worthington, Royal Bldg., Casper, consult. engrs.

Mo., Steele — A. B. Rhodes, city clk., rejected bids Apr. 16, 75,000 gal. tank on tower, 10,000 ft. 4, 6 and 8 in. c.i. mains, two 100 ft. wells, two 125 g.p.m. motor driven pumps, also 10,000 ft. 8- to 15-in. vitr. clay sewers, disposal plant, etc. $30,000. Will readvertise. A. C. Moore, 222 Independence Bldg., Joplin, engr. Noted Apr. 9.

Ark., Siloam Springs — Plans extending 10,600 ft. 6- to 10-in. c.i. mains, etc., in 25 blocks various streets. $30,000. A. E. Stockburger, mayor. Engineer not announced.

Tex., Big Spring—Voted $30,000 bonds waterworks extensions, incl. mains, new pumps, equipment, etc. J. W. Middleton, secy. Noted Apr. 2.

Tex., Cuero—Plans replacing 1 mi. small mains with 8 in. mains in various streets, also 15 new fire hydrants. $20,000. Engineer not announced.

Tex., San Antonio—Voted $6,000,000 bonds, purchasing local waterworks and $500,000 bonds for improvements. I. Ewig, city engr. Noted Apr. 2.

Okla., Bristow — Making preliminary plans new deep well water supply, pumps and pumping equipment. $45,000. M. Morrison, mayor. Engineer not selected.

Ont., Riverside—Plans 8,000 ft. 6 in. c.i. mains in various streets. $25,000. Code & Code, Provincial Bank Bldg., Windsor, engrs.

Ont., Toronto—York Twp., 40 Jarvis St., plans mains in Avon and Lorrain Aves. $3,850, Rountree Ave., Times and Weston Rds. $4,505, Birch Ave. $1,805, Rogers Rd. $14,350, Ronald and Schell Aves. $3,280. F. B. Goedike, twp. engr.

Ont., Windsor — Essex Border Utilities Comn., plans 24 in. pipe line to suburb of LaSalle. $50,000. Prices wanted on materials.

BIDS DESIRED

Mass., Boston—May 21, at office Metropolitan Dist. Comn., 1 Ashburton Pl., 4,440 ft. 48 in. c.i. pipe. G. L. Rogers, secy.; adv. E. N.-R. May 7.

Mass., North Attleboro—May 20, approximately 19,150 ft. 8 in. and 20,500 ft. 6 in. c.i. mains in various streets. C. S. Hoisington, mgr. Municipal Waterworks.

R. I., Providence—May 27, by Water Supply Bd., hydro-electric equipment, etc. F. E. Winsor, 661 Westminster St., ch. engr.; adv. E. N.-R. May 7.

Conn., New Britain — May 14, by Bd. Water Comrs., Room 205 City Hall, mains in various streets. J. D. Williams, city engr.; adv. E. N.-R. Apr. 7.

Md., Baltimore—May 13, by Bd. Awards, superstructures of chemical, shelter, garage and filter buildings, pumping station, etc., at Montebello Ave. V. B. Siems, City Hall, engr.

Wis., Milwaukee—May 9, by Dept. Pub. Wks., 22,598 lin.ft. 6- to 12-in. mains in various streets.

Tex., Dallas—E. A. Kingsley, city engr., taking bids 75 standard fire hydrants, two 2½ in. hose nozzles and one steamer nozzle, for city. $6,000.

Tex., Dallas—M. G. James, city secy., taking bids 25,000 ft. ¾ in. and 10,000 ft. 1 in. extra strong lead pipe, and 1,000 ft. 2 in. double extra strong lead pipe, delivered to Waterworks yards, 701 Bourbon St.

Ont., Leamington — May 15, by R. M. Selkirk, town clk., 950 ft. 16 in. steel intake pipe, 272 tons 6 in. c.i. mains, two 75 hp. motors and pumps, etc. $55,000. A. Newman, Davis Blk., Windsor, engr. Noted Apr. 2.

Ont., South Porcupine—May 11, by F. C. Evans, clk. Tisdale Twp., 5,000 ft. 6 in. c.i. mains, pumphouse, hydrants, etc., in various streets. $25,000. Sutcliffe Co., Ltd., New Liskeard, engrs.

BIDS RECEIVED

Conn., Wallingford — Water Dept., disposal plant, from New York Sewage Disposal Co., Grand Central Terminal, New York City, $34,557.

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, May 4, mains in 9th Ave., 53rd St., etc., from Wataga Contg. Co., 308 Lenox Ave., New York City, $62,444. Noted Apr. 30.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Apr. 29, mains in Westchester, Esplanades, Yznaga Pl., Bronx Blvd., Allerton, Bouck, Crosby Aves., etc., from Melrose Constr. Co., 103 East 125th St., $7,300. Noted Apr. 23.

Pa., Phila.—Dept. Pub. Wks., Bureau Water, Apr. 28, from J. J. McHugh, 1617 Race St., Contr. 748, laying pipe $76,192. Contr. 754, vibrating screen $1,290; from B. F. Sturdevant, Thornes and Copewood Sts., Camden, N. J., Contr. 753, sanitary vacuum cleaner, $875; from Acme Machine Co., 316 North 17th St., Contr. 755 $950; from U. S. Cast Iron Co., Burlington, N. J., Contr. 756,400 tons 6, 8 and 12 in. c.i. pipe, $212,607; from Vare Constr. Co., 1120 Race St., Contr 757, electric duct, $20,756.

O., Cleveland—Cuyahoga Co., 8,500 ft. 6 and 8 in. mains in Harvard and Warrensville Center Rds., from M. Iafornaro, 2218 Murray Hill Rd., $21,420.

O., Indian Hill (mail Cincinnati) — Camargo Realty Co., 150,000 gal. reservoir and 35,625 ft. 4- to 8-in. c.i. mains, for water supply line, from Crumley, Jones & Crumley, 217 Hazen Bldg., $67,427. Engrs. est. $75,040.

Minn., Minneapolis — F. S. Gram, city purch. agt., Apr. 6, steel pipe and fittings for filter plant (under construction), 820 lin.ft. 54 in. ½ in. thick and 892 lin.ft. 54 in. $\frac{5}{16}$ in. thick riveted steel, 4,498 lin.ft. 48 x ⅜ in. or 50 x ⅜ in. lock bar steel pipe, from Biggs Boiler Wks., Bank and Williams Sts., Akron, O., $85,000. Noted Mar. 26.

CONTRACTS AWARDED

N. Y., Fulton—Common Council, rein.-con. suction well, to H. J. Lyon, Fayetteville, $19,850. Noted Apr. 9.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 107th, 120th, 218th Sts., etc., here, to J. A.

Waterworks (Continued)

Gregory, 351 East 124th St., New York City, $16,973. Noted Apr. 23.

O., Cleveland—Cuyahoga Co., 6,800 ft. 12 in. mains in Pleasant Valley Rd., Impvt. 81, to Gantose Constr. Co., Columbia Bldg., $33,778.

O., Cleveland—Cuyahoga Co., 6,750 ft. 6 and 8 in. mains in Impvt. 354, to A. Marra Constr. Co., Ulmer Bldg., $16,852. Noted Apr. 30.

Ill., Chester—Filtration Plant, to A. P. Poirot, 721 East Washington St., Belleville, $33,015. Engrs. est. $30,000. Noted Apr. 16.

Ia., Sioux City — For 300,000 gal. capacity steel tank on tower for water storage in Morningside, to Pittsburgh-Des Moines Steel Co., 9th and Tuttle Sts., Des Moines, $18,888. Noted Apr. 16.

Mo., Raytown—Raytown Water Co., 3½ mi. 8 in. mains to Natl. Cast Iron Pipe Co., 603 Land Bank Bldg., Kansas City; tank on tower, to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago, Ill.; pumps, to Amer. Wells Wks. Mfg. Co., Walsix Bldg., Kansas City; valves, to Ludlow Valve Mfg. Co., 1416 R. A. Long Bldg., Kansas City. Engrs. est. $50,000.

Tex., Denton—C. W. Stovall, city secy., 250,000 gal. tank on 100 ft. tower (city to build foundation), to Pittsburgh-Des Moines Steel Co., 1217-18 Practorian Bldg., Dallas, $17,000. Engrs. est. $20,000. Noted Apr. 16.

Ont., Islington — Etobicoke Twp., 500 water meters to Neptune Meter Co., Ltd., 1195 King St. W., Toronto. Engrs. est. $7,500.

Ont., Ottawa — Bd. Control will install 2,000 water meters, by day labor. $30,000. A. F. Macallum, city engr. Noted Feb. 19.

Sewers

PROPOSED WORK

Mass., Boston—Dept. Pub. Wks., City Hall, plans sewerage works in Battery and Ipswich Sts., here, $25,000; in Itasca, Barrington and Harmon Sts., Elm, Mildred and Wilmington Aves., Dorchester, $25,000; in Church, Cornell and Pleasant Sts., and Farwell, Pierpont and Alhambra Rds., West Roxbury, $25,000. J. A. Rourke, comr.

R. I., Providence—Plans sewers in Pembroke Ave., Amory, Barstow, Hamilton and Crandall Sts. $25,000. J. B. Ballard, chrm. Com. on Sewers, Pub. Wks. Dept.

N. J., Palmyra — Boro Council plans storm sewer along Boulevard to Delaware River. $50,000. Remington & Vosbury, 509 Cooper St., Camden, engrs.

N. J., Trenton—Soon takes bids sewers in Hiltonia Sect., Liberty St., Virginia, Green, Afton and Chestnut Aves. $37,500. A. C. Gregory, city engr.

Pa., Hazleton—Soon takes bids 5,200 lin. ft. 48- to 84-in. storm and 5,200 lin.ft. 4- to 24-in. sanitary sewers in various streets. $250,000-$300,000. J. Rough, city engr.

W. Va., Mason Town—See "Waterworks."

Miss., Jackson—Election May 16, $110,000 bonds for sewers.

Mo., Steele—See "Waterworks."

Mo., West Plains—Election May 26, $50,000 bonds, sanitary sewers in various streets. Russell & Axon, 412 McDaniel Bldg., Springfield, engrs.

Tex., Wichita Falls—Election soon $175,000 bonds, for sewage disposal plant. W. E. McBroom, city secy.

Okla., Mangum—Making surveys 12,100 ft 24- to 42-in. segmental block sewers in business section. $30,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Norman—Election May 19, $35,000 bonds, extending 35,000 ft. 8- to 15-in. vitr. clay sewers in University Pl., Boyd, Cleveland and Noble Sts. F. Cobb, Norman, engr.

Colo., Denver—See "Streets and Roads."

Ont., Guelph—Plans 12,000 ft. 8 in. up, vitr. tile storm and sanitary sewers in Allan Ave., Bay, Essex, Grey, Grant, Hood, Meadowview, Palmer, Sullan, Water, Cardigan, Marcon, Tiffany, George, Pipe and John Sts. $30,000. N. S. Nicklin, city engr.

Ont., Hamilton—Plans 10,000 ft. vitr. tile sanitary and storm sewers in district north of Barton St. between Kenilworth and Strathearn Aves. $51,000. W. L. McFaul, city engr.

Ont., Riverside—Plans 12,000 ft. 8 in. up vitr. tile sanitary and storm sewers in various streets. $50,000. Code & Code, Provincial Bank Bldg., Windsor, engrs.

Ont., Toronto — East York Twp. plans sewers in Donlands Rd. $17,245, and Greenwood Ave. $12,567. Work involves 1,940 ft. 12, 15 and 24 in. vitr. tile pipe. G. R. Jack, Sammon Ave., Municipal Yard, engr.

Ont., Toronto—York Twp. plans 6,000 ft. 8 in. vitr. tile sewers in Bude St., Glocester Grove, Clovelly, Strader, Belvedere, and Lanark Aves. $30,000. F. B. Goedike, twp. engr.

Ont., Toronto — Plans to expend $11,000,000 on North Toronto Drainage System, incl. lateral sewers $2,971,360, trunk sewers $7,051,600, and disposal plant $1,000,000. R. C. Harris, city engr.

Ont., Toronto—York Twp., 40 Jarvis St., plans 4,200 ft. 15 in. and up, concrete and vitr. tile sewers in Blackthorn and Aileen Aves., Keele St. and Scott Rd. $67,975. F. B. Goedike, 40 Jarvis St., engr.

BIDS DESIRED

Mass., Boston—May 12 by Pub. Wks. Dept., sewerage works in Dorchester. J. A. Rourke, Comr.

N. Y., New York — May 14, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Ayes., sewers, etc. in East 242nd St., Cornell, Bronx River, Leland, Patterson Commonwealth, Lacombe, St. Lawrence and Beach Aves.

Pa., Oil City—May 21, B. B. Weber, city engr., City Hall, constructing Oil Creek Intercepting Sewer Cooper Run Culvert, and Orange St Relief Sewer; adv. E. N.-R. May 7.

O., Toledo — May 15, by Comrs. Lucas Co., Ditch 578, in Washington Twp., 20,800 ft. 12- to 84-in. rein.-con. or segment block pipe. $500,000. C. L. Sawyer, Toledo, co. surv.

Mich., Springwells — See "Streets & Roads."

Wis., Milwaukee—May 12, by J. Fowles, secy Metropolitan Sewerage Comn., 508 Market St., Arnauld Ave. low level sewer, 5,733 ft. 12- to 21-in. terra cotta pipe, 225 vertical ft. standard and 36 vertical ft. drop manholes, etc.

Minn., Winona—May 18, by G. W. Hoffmann, city clk., 11,459 ft. 8- to 12-in. vitr. clay and 751 ft. 12 in. c.i. sewers, etc., in Sewer Dist. 5. $25,000. E. E. Chadwick, city engr. Noted Feb. 5.

Tex., Houston—May 15, by J. C. McVea, city engr., sanitary sewers in various streets. $75,000.

Ont., South Porcupine—May 11, by F. C. Evans, clk. Tisdale Twp., septic tank and 4,000 ft. 8 in. vitr. tile sewers in various streets. $25,000. Sutcliffe Co. Ltd., New Liskeard, engrs.

BIDS RECEIVED

Conn., Wallingford—Sand filtration beds and sewage disposal plant, from New York Sewage Disposal Co., Grand Central Terminal, New York City, $34,557.

Md., Baltimore — Bd. Awards, storm sewers in Sewer Dist. H-9, Water Contr. 85, from Catalano & Picora Constr. Co., Knickerbocker Bldg., $177,726. Noted Apr. 23.

Mich., Grand Rapids — Director Pub. Serv., City Hall, Apr. 22, constructing Cold Brook Creek Drain, Contr. F-6, from Swingle & Robinson, Wyandotte, $99,205. Engrs. est. $129,198. Noted Apr. 2.

Ill., Downers Grove — Sanitary Sewer Dist., Apr. 22, 80,000 ft. 8- to 21-in. rein.-con., and 100,000 ft. 33- to 42-in. vitr. clay sewers, from H. Reese & Son, Quincy, $268,458. Engrs. est. $300,000. Noted Apr. 9.

Wis., Milwaukee—J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., Apr. 17, pipe covering in power plant of sewerage disposal plant at Jones Island, from G. F. Becker Co., 137 6th St., $25,663.

Calif., Los Angeles—Bd. Pub. Wks., from M. Brkich & Co., 309 Douglas Bldg., Sect. 24 North Outfall Sewer, 5,226 ft. 5 ft. semi-elliptical brick-concrete sewer complete, $80,000 or 8,441 ft. 5.5 ft. semi-elliptical brick-concrete sewer complete, $130,500. Noted Apr. 23.

CONTRACTS AWARDED

N. Y., Brooklyn — J. A. Guider, Boro pres., Boro Hall, (**e. e. means engrs. est.**) sewers in Elmwood Ave., etc., to A. W. Matarazzo, 74.23% e.e. $11,518; in 8th St., to Standard Constr. Co., 705 Park Ave., 68% e. e.$8,125; in Maple St., to R. Iovino, 81.25% e. e. $4,060. Noted Apr. 30.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewer in Morris Ave., to Slack & Slack Contg. Co., 1621 Gates Ave., $19,215; receiving basin on Fordham Rd., to J. T. Brennan, 839 Ger aldAve., $1,285; inlets, etc., in Holland Ave., to Bronx Sewer Constr. Co., 375 East Fordham Rd., $3,409. Noted Apr. 23.

N. Y., St. George—J. A. Lynch ,pres. Richmond Boro, Boro Hall, sanitary sewers in New Dorp, Oakwood and vicinity, to Hammen Constr. Co., Perth Amboy, N. J., $338,703. Noted Apr. 2.

N. J., Trenton — Bd. City Comrs., sewage disposal plant, to J. P. White Co., Washington Pl., Passaic, $992,683. Noted Apr. 16.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Apr. 7, to O'Neil Co., 127 East Mermaid St., main sewer in Custer Ave. $107,355, Loretta Ave. $77,176, to A. Botitatibus Ardleigh St. $4,085, Durd St. $6,605; to Perna Constr. Co., 301 N. 65th St., Almond St. $2,503, Mercer St. $2,490, N St. $7,384, Salmon St. $2,[illegible], Sepviva St. $2,902, 2 sections of Thompson St. $2,437 and $4,442, Webb St. $2,[illegible], to V. S. Campelone, 812 West Venango St., Bath St. $2,301, Gaul St. $2,290, to J. J. McHugh, 1617 Race St., Durand St. $6,793; to Higgins & Reilly Co., 601 Real Estate Trust Bldg., 52nd St. $15,856, to Pacifico Ventres Co., 4th St. $7,919 Wolcote St. $13,487; to McCoal Constr. Co., 5033 Duffield St., Janney St., $2,349, to Vattieri & Pontarelli, 3rd St. $2,830; to Vare Constr. Co., 1120 Race St., Champlost St. $59,729; to Bardi & Pincliotti, 1[illegible] Taske St., Sanger St. $29,149; to Sarno Contg. & Building Co., 1213 Snyder Ave., Bigler St. $5,739; A. V. Peter & A. J. Ellis, 3342 North 11th St., McKean Ave. $11,261; to A. Perna & Son, Naomi St. $9,004, Victoria St. $1,710; to J. Moss, 1652 Wakeling, Valette St. $2,829; to Lombardi Co., 601 Lincoln St., Wallace St. $3,125 to F. Di Pasquale, 1215 South 17th St., Gaul St., $3,078. Noted Apr. 23.

Pa., Phila.—Director Pub. Wks., Bureau Engineering, to M. and J. B. McHugh, 892 North Markoe St., water pipe connections in city property $12,149, branch sewers in Louisa St. $4,496, in Oxford St. $48,641, Calvert St. $6,953; to G. F. Dobbin, 1020 South 47th St., fence at Northeast Sewerage Treatment Works $27,146; to P. and A. J. Ellis, 3342 North 11th St., main sewer in Crabtree and Rowland Sts. $72,492, Colgate St. $61,156; to Cossetti, 150 Real Estate Trust Bldg., branch sewers in Magnolia, Bringhurst, Clarkson and Queen Sts. $28,724, Wellesley St. $9,940, Hortter St. $16,585, to A. DiSandro & Son, 3906 North 5th St., Natrona St. $4,762, Shellmire St. $8,597, 33rd St. $8,920, Blakemir St. $12,703, to J. Hastie, 601 East Hillton St., Nedro St. $10,993, Lansing St. $7,138, to E. F. Benis, 825 East Washington Lane, Sedgwick St. $11,710, to Lombardi Co., 601 Lincoln Bldg., 72nd Ave. $13,270, Gay St. $4,864, Gibson St. $6,958, Gowen St. $8,715, to Pacifico Ventresco, 6325 Chew St., Tulip, Decatur, Edmond and Harbel Sts. $27,513, to A. Bonitatibus, 30 West Mt. Pleasant Ave., Wellesley St. $12,130, Hartel St. $7,579, to A. A. Pastore, 5903 Woodland Ave., Woodcrest St. $7,600, Wynnefield St. $11,789, to A. Jafalla, 139 South 50th St., C St. $975, to Higgins & Reilly, 601 Real Estate Trust Bldg., Conshohocken St. $12,704, to Vattieri & Pontarelli, 523 Rising Sun Lane, Dover St. $5,254, to W. McIntyre, 6811 North Franklin St., Locust St. $4,622. Grand total $472,214.

O., Akron—W. F. Peters, dir. Pub. Serv., 330 ft. 15- to 24-in. vitr. clay and 3,320 ft. 30- to 60-in. brick trunk sewer in Gorge Blvd. Dist., to F. George, 1657 Mahoning Ave., Youngstown, $85,155. Engrs. est. $108,600. Noted Apr. 23.

O., Cleveland—City, 535 ft. 6A, 1,500 ft. 5C, 680 ft. 4C, and 375 ft. 3C concrete sewer in Bellaire Rd., to W. B. Smith, 706 The Arcade, $55,788. Noted Apr. 23.

O., Dayton — Dept. Pub. Serv., North Dayton Relief sewer Projects 1 and 2, to J. B. Mercer, Piqua, $59,620 and $78,040 respectively; Dry Hollow storm sewer, Project 3, to W. H. Boyd, Reibold Bldg., $14,595; Canal storm sewer, Project 4, to Finke Eng. Co., Realty Bldg., $24,918. Grand total $177,173. Noted Apr. 9.

Ill., Knoxville—For 3,238 ft. 12 in. tile sewers in Main St., to Central Eng. Co., 809 Putnam Bldg., Davenport, Ia., $94,267. Engrs. est. $119,000.

Wis., Milwaukee—Dept. Pub. Wks., storm and sanitary sewers in Highland Ave., Wyoming Pl., Ellen, Sycamore and 36th Sts., to H. O. Schaefer & Sons, 1149 East Mason St., Green Bay, $9,238; Claybourn and Richards Sts., to Wenzel & Henoch Co., 498 27th St., $102,411; Oklahoma Ave., to W. T. Werner, 675 Hi-Mount Blvd., $6,886; Keefe Ave., to G. E. Zimmermann, 3402 Grand Ave., $53,126; 38th St., to J. Brogan & Sons, 700 Dousman St., Green Bay, $2,189.

Minn., St. Paul — H. W. Austin, city purch. agt., will construct Belt Line, Phalen and Hazel Park system, Contr. B, Margaret-Minnehaha Branch, by force account. $325,000. Former bids rejected. G. M. Shepard, city engr. Noted Apr. 16.

Mo., St. Joseph—City extending rein.-con. main sewer in Grand Ave., to T. Johnson, Eagle Grove, Ia., $25,918.

Ont., Toronto—East York Twp., Sammon Ave. Municipal Yard, 11,000 ft. 8 in. vitr. tile sewers in Goyder Aves., to A. Johnson, 17 Fairmount Crescent, $1,850 and $1,788 respectively; Inwood Ave., to Natl. Contg. Co., 9 Garnock Ave., $2,900; Fraler and Woodmount Aves., to Mitchell Contg. Co., London, $1,837 and $2,385 respectively; Glebemount Ave., to J. Simpson, 227 Wychwood Ave., $2,210; Queensdale Ave., to Murphy Contg. Co., 8 Wychwood Ave.,

Sewers (Continued)

$2,248; Monarch Park and Pape Aves., to Dept. Pub. Wks., by day labor, $6,355 and $14,485 respectively.

Ont., Toronto—East York Twp., Sammon Ave. Municipal Yard, will build 8,000 ft. vitr. tile sanitary and storm sewers in Danforth Ave. $5,600, Thyra Ave. $5,200, Dawes Rd. $17,200, Gledhill Ave. $2,950, by day labor. Grand total $30,950. G. R. Jack, twp. engr.

Ont., Toronto—York Twp., 40 Jarvis St., to A. Cavotti, 257 Euclid Ave., sewers in Gilbert and Corby Aves. $7,865, Pinewood Ave. and Humewood Dr. $7,062; to W. E. Taylor, 22 Falcon St., sewers in Harvie and Treignmouth Aves. $4,884, Vaughan Rd. $4,039, Old Westom Rd. $12,695; to F. F. Fry, 43 Scott St., sewers in Rogers Rd., Sellers and Day Aves., $3,773. Work involves approximately 9,000 ft. 8 in. and up vitr. tile and concrete pipe. Grand total $40,318.

Waste Disposal

BIDS DESIRED

N. Y., New York — May 15, by W. W. Mills, comr. Plants & Structures, Municipal Bldg., waste disposal plant, incl. 2 radial brick chimneys, elevators, etc., at Tompkins, Rivington and Stanton Sts. Noted Mar. 12.

O., Lakewood (Cleveland P. O.)—May 14, by City, E. A. Weigland, mayor, 50 ton incinerator. $85,000. Former bids rejected. E. A. Fisher, City Hall, engr. Noted Feb. 26.

Tex., Houston—May 15, by J. C. McVea, city engr., new incinerators. $75,000.

CONTRACTS AWARDED

N. Y., Buffalo—Commissioner Pub. Wks., garbage disposal plant, to Hiler Eng. Constr. Co., 60 Wall St., New York City, $459,000. Noted Mar. 19.

Bridges

PROPOSED WORK

Mass., Dorchester (Boston P. O.)—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, making sketches 40 ft. steel girder bridge, concrete abutments over New York, New Haven and Hartford R.R. tracks, at Popes Hill, here. To exceed $25,000. J. R. Rablin, c/o owner, engr.

N. Y., Buffalo — Erie Co. plans 3 new bridges, 200 ft. span over Cattaraugus Creek, 100 ft. span over Big Sister Creek, and 400 ft. span over Eighteen Mile Creek. To exceed $250,000. G. C. Diehl, Ellicott Sq. Bldg., engr.

Fla., Delray — Palm Beach Co. (West Palm Beach) election May 12, $60,000 bonds, for bridge over Florida Coast Line Canal, here. F. C. Fenno, West Palm Beach, co. clk.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Mar. 16, bridges on Route 8, Sects. 44-B and C. Knox Co. F. T. Sheets, highway engr. Noted Apr. 2.

Kan., Holton—Jackson Co. making preliminary plans Bridge 1, 90 ft. steel span on concrete foundation, 20 ft. roadway, etc.; Bridge 2, 80 ft. steel span; Bridge 3, 70 ft. steel span, etc., all on Federal Aid Project 291-D. P. W. Wright, Holton, co. engr. Kansas Eng. Co., 1233 Webster St., Topeka, engrs.

Tex., Anderson—See "Streets and Roads."

Tex., Anson—See "Streets and Roads."

Tex., Bellville—See "Streets and Roads."

Okla., Anadarke—State Hy. Dept., Oklahoma City, made surveys 90 ft. steel truss bridge on concrete piers, Caddo Co., here $25,000. J. M. Page, Capitol Bldg., Oklahoma City, highway engr.

Okla., Chandler—Election soon $25,000 bonds, rebuilding concrete and timber bridge over 9th St. Benham Eng. Co., 512 Gumble Bldg., Kansas City, Mo., engrs.

Okla., Clinton — Custer Co. (Arapaho) plans bridge over Washita River, near here. $45,000.

Ont., Creemore — Simcoe Co. (Barrie) plans 80 or 100 ft. steel and concrete bridge, here. $25,000. F. Barber, 45 Jarvis St., Toronto, engr.

Ont., London — W. P. Near, city engr., preparing plans rein.-con. bridge. $100,000.

BIDS DESIRED

Pa., Erie — May 22, by City Council, Council Chambers, steel bridge over Pennsylvania R.R. Tracks, etc., connecting West 6th St. extension with Frontier Pl. Subdivision. A. N. Aitken, city engr.; adv. E. N.-R. May 7.

Md., Westminster—May 12, by State Roads Comn., Baltimore, triple span rein.-con. arch bridge over Monocacy River, here. J. N. Mackall, chn.

Louisiana—May 14, by State Hy. Dept., Reymond Bldg., Baton Rouge, constructing Minor Canal Bridge, 30 ft. steel I-beam and two 19 ft. creosoted timber approach spans, on Houma-Gibson Highway, State Project 325-B, Terrebonne Parish; also bridge twelve 19 ft. panels, 4 pile bents, 23,000 ft. creosoted and 16,000 ft. untreated lumber, over Bayou Isle, Des Cannes, on Lafayette-Abbeville Highway, Lafayette and Vermilion Parishes. W. B. Roberts, ch. engr.

La., Winnsboro — May 28, by State Hy. Comn., Reymond Bldg., Baton Rouge, 2 rein.-con. deck girder bridges, one four 31 ft. spans and other three 31 ft. spans over Turkey Creek, on State Project 371-A, Winnsboro-Vidalia Highway, Franklin Parish, here. W. B. Robert, Baton Rouge, ch. engr.

Ia., Logan—May 13, by Bd. Supervs. Harrison Co., one 80 x 16 ft. pony truss bridge with two 30 x 16 ft. I-beam approaches, etc., one 100 x 20 ft. high truss bridge and one 175 x 20 ft. high truss bridge with one 90 x 20 ft. and one 50 x 20 ft. pony truss approaches concrete abutments, etc., incl. 585,780 lb. structural steel, 95,845 lb. reinforcing, etc. T. A. Cherry, co. engr.

Tex., Brenham—See "Streets and Roads."

Tex., Dickens—See "Streets and Roads."

Tex., Fairfield—See "Streets and Roads."

Tex., Huntsville — See "Streets and Roads."

Tex., Laredo—See "Streets and Roads."

Tex., Linden—See "Streets and Roads."

Tex., Waxahachie — See "Streets and Roads."

Oklahoma—May 12, by State Hy. Dept., Oklahoma City, 5 span 2,120 ft. steel truss bridge on concrete piers, 56,300 cu.yd. embankment, etc., at Ralston, Pawnee Co. $300,000; and 1 span 42 ft. concrete bridge, 11,800 cu.yd. embankment, etc., on State Aid Project 128, at Mooreland, Woodward Co., $25,000. Noted Dec. 25.

BIDS RECEIVED

Pennsylvania—State Hy. Dept., Harrisburg, May 1, bridge on Route 105, Cameron, Co., from Farris Eng. Co., Empire Bldg., Pittsburgh, Pa., $104,668. Noted Apr. 23 under "Street and Roads."

Georgia—State Hy. Dept., East Point, Apr. 24, bridges on Project 404-B, Chattahoochee and Muscogee Counties, from J. B. McCrary & Co., Citizens & Savings Bank Bldg., Atlanta, $44,797; bridges and culverts on Project 402-B, Madison Co., from E. M. Williams, Monroe, $29,254; bridges and culverts on Project 344-B, Meriwether Co., from Camp & Trammel, Moreland, $7,184. Noted Apr. 9.

Arkansas—State Hy. Dept., Little Rock, steel bridges, piers and abutments on Arkansas-Missouri Highway, 495 cu.yd. concrete, 2,200 ft. piling, 265 cu.yd. dry and 410 cu.yd. wet excav., 39,000 lb. reinforcing, 128,500 lb. structural steel, 31,400 lb. I-beam steel, etc., from Pioneer Constr. Co., New York Life Bldg., Kansas City, Mo., $27,406.

Tex., Jacksboro — See "Streets and Roads."

CONTRACTS AWARDED

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, one 80 ft. steel and three 40 ft. concrete span bridges, 20 ft., over Hatchie River, Federal Aid Project 100-B, Haywood Co., to A. O. Freeman & Co., Dyersburg, $41,028; three 30 ft. span bridge over Trammel Creek, State Aid Project 127-B, Sumner Co., to Montgomery & Parker Constr. Co., Rockport, Ind., $13,391. Noted May 7.

Ohio—Dept. Highways & Pub. Wks., Columbus, concrete bridge on Sect. "H-Bridges" Woodsfield-Sisterville Rd., Monroe Co., to Hardman & Minns, Spencer, W. Va., $39,075; temporary bridges on Sect. "Twin Cr. Bridges" National Rd., Preble Co., to L. Pickering, Bellefontaine, $3,551. Noted Apr. 23.

O., Dayton—Dept. Pub. Serv., Island Park Bridge over The Great Miami River, at Helena St., to G. Wiley Constr. Co., Arcade Bldg., Dayton. Noted Apr. 30.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 4, Sect. 30-B, Cook Co., to G. Welch, Beloit, Wis., $46,529; bridge on Route 19, Sect. 36-D, Cook Co., to R. Mann, 2031 3rd Ave., Rockford, $40,637. Noted Dec. 11.

Ia., Boone—Boone Co., three 12 x 8 x 25 ft. and one 8 x 8 x 22 ft. box culverts, one 14 x 18 ft., one 24 x 20 ft., one 16 x 18 ft. and one 22 x 18 ft. slab bridges, one 36 x 18 ft. I-beam bridge on one 90 x 20 ft. and one 50 x 18 ft. pony truss bridge, to B. Cole, Ames, $32,000; 2,480 ft. 12 in. corrugated and 520 ft. 15 in. pipe, to Klauger Mfg. Co., 9th and Washington Sts., at $0.56 and $0.69 per ft. respectively; 1,000 bbl. cement, to Fehleisen & Rosacker, Boone, at $0.66 per sack, in warehouse at Boone.

Ia., Cherokee—Cherokee Co., 5 I-beam and 1 pony truss bridges, also 52 culverts, etc., to Material Supply & Constr. Co., Boone. Engrs. est. $50,000.

Ia., Manchester—Delaware Co., 4 I-beam and 2 pony truss bridges, also 21 box culverts, in various parts of county, to Fifield Constr. Co., Waterloo, $31,200.

Ia., Montezuma—Poweshiek Co., 2 pony truss and 2 I-beam bridges, etc., to Iowa Bridge Co., 1263 East 19th St., Des Moines, $37,000.

Ia., Oskaloosa — Mahaska Co., 1 I-beam bridge and 38 box culverts, etc., in various parts of county, to H. E. Whitlatch, Oskaloosa, $25,783.

Ia., Poweshiek—Montezuma Co., 2 pony truss and 2 I-beam bridges and 10 box culverts in various parts of county, to Iowa Bridge Co., 1263 East 19th St., Des Moines, $37,000.

Ia., Washington — Washington Co., 2 I-beam and 2 slab bridges, 2 abutments and 27 box culverts, to White Yard Co., Washington, $44,974.

Washington—State Hy. Comn., Olympia, 221 ft. T beam type, rein.-con. bridge on State Rd. 2, King Co., to Colonial Building Co., Hutton Bldg., Spokane, $26,596. Noted Mar. 26.

Dams

PROPOSED WORK

Minn., Rice—Minnesota Power & Light Co., Duluth, W. S. Robertson, genl. mgr., plans power dam, 16,500 hp. capacity, across Mississippi River, here. $2,000,000.

Ont., Brampton—Making surveys for dam and embankment to change course of river. $250,000. W. H. Riehl, City Hall, engr.

BIDS DESIRED

Calif., Merced—June 2, by H. P. Sargent, secy., Merced Irrigation Dist., Bancroft Bldg., 14 plate steel gate leafs with structural and cast steel frame, 14 cast steel bearing plates, 84 semi-steel crest plates, 4 sets gate operating gearing, consisting of cast steel gears and racks with screw stems on cast steel bed plate, worm and bevel gear drives, 2 motor-driven gate operating cars, 1 traveling crane, 1 centrifugal pump, 2 hydraulic ejectors, 1 high pressure oil pumping system, etc. for Exchequer dam and power plant.

Railways

PROPOSED WORK

Maine—Aroostook Valley Electric R.R. Co., Presque Isle, plans extending railroad from Sweden Station to St. Agatha, Aroostook Co. H. N. Crandall, Presque Isle, genl. mgr.

California—City of San Francisco and San Francisco Co., making survey extending Potrero Ave. municipal railway line to Excelsior Dist., in San Francisco. $1,000,000. M. M. O'Shaughnessey, San Francisco, city engr.

Ontario—Hydro-Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans double tracking ½ mi. street railway on London St., in Windsor. $50,000. F. A. Gaby, ch. engr.

CONTRACTS AWARDED

Missouri—Missouri Pacific R.R. Co., Railway Exch. Bldg., St. Louis, second track, etc. 18.85 mi. road between Isbell and Gasconade, 2.63 mi. between Allenton and Eureka, 3.65 mi. between Moreau tunnel and Osage, etc., to Winston Bros., 2516 Wabash St., Minneapolis, Minn., who are considering informal bids on sub-contracts. Engrs. est. $2,000,000. Within next 3 years owner will complete double tracking system between St. Louis and Kansas City, total cost approximately $15,000,000.

California—City of San Francisco, Ocean View extension to municipal railway in San Francisco, to Eaton & Smith, 715 Ocean Ave., San Francisco, $101,947.

Quebec — Canadian Natl. Ry., 230 St. James St., Montreal, takes bids about June 1, branch line from Natl. Transcontinental to Rouyn Twp. $3,500,000. C. B. Brown, Montreal, ch. engr.

Ontario—Canadian Pacific Ry., Windsor Sta., Montreal, Que., will replace and renew ties on London Division of railroad, by day labor. $500,000. J. M. R. Fairbairn, ch. engr.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Okla., Dewey — Plans reclaiming 50,000 acres in Caney Valley. Election soon to vote on organizing district. $5,000,000.

Excavation, Drainage, Irrigation, Levees (Continued)

E. E. Blake, state comr. Irrigation & Drainage.

Ont., Comber—Tilbury West Twp., plans vitr. and field tile, timber or stone drains. $50,000. S. T. Anderson, twp. clk.

BIDS DESIRED

Ia., Newton—May 15, by C. B. Francisco, aud. Jasper Co., 900,000 cu.yd. excav. in D. D. 17.

Okla., Edmond—May 11, by W. A. Jackson, clk. Oklahoma Co., draining and ditching Smith Creek east of here, 84,751 sq.yd. excav., etc., for Smith Creek D. D. 9, $33,000; Wild Horse Creek northwest of here, 91,314 sq.yd. dry and 1,760 cu.yd. wet excav., for Wild Horse D. D. 12, $35,000. H. J. Wilkins, 227 West Grand St., Oklahoma City, engrs.

Okla., Marlow—May 11, by J. Tillerton, clk. Stephens Co., grading and draining Little Beaver Creek, 46,770 cu.yd. dry and 3,970 cu.yd. wet excav., etc., for Little Beaver D. D. 1. $30,000. H. J. Wilkins, 227 West Grand St., Oklahoma City, engr.

Ontario—May 12, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, dredging at Collingwood and Goderich.

BIDS RECEIVED

N. Y., New York—M. Cosgrove, comr. Docks, Pier A, foot Battery Pl., North River, Apr. 30, dredging at Piers 53 to 56, North River, Contr. 1860, from Morris & Cummings Dredging Co., 17 State St., $27,354. Noted Apr. 23.

Wis., Milwaukee—Dept. Pub. Wks., Apr. 17, dredging approximately 115,000 cu.yd. various river and canal channels, from Great Lakes Dredge & Dock Co., 216 West Water St., at $0.435 per cu.yd. Noted Jan. 15.

CONTRACT AWARDED

La., Vidalia—Warnicutt Levee Dist., Concordia Parish, 265,000 cu.yd. excav., to Ogden & Lewis, Roumain Bldg., Baton Rouge, $52,470.

Ill., Urbana—Spoon River D. D., Champaign Co., c/o Dobbins & Dobbins, attys. Champaign, 368,780 cu.yd. excav. in main ditch and 5 branch ditches, to W. F. Sternberg, Piper City, at $0.12 per cu.yd.

Calif., Vista—Directors Vista Irrigation Dist., 3 tunnels 5 x 6.5 ft. diam., to C. F. Littlejohn, 626 South Spring St., Los Angeles, $27,142; Gunite bench flume, to D. H. Ryan, 1615 Fern St., San Diego, $168,819; 42 in. concrete pipe line, to Elliott & McKenna, c/o Santa Fe Ranch, Del Mar, $50,000; 100 tons 36 in. riveted steel pipe line, to Western Pipe & Steel Co., 5717 Santa Fe Ave., Los Angeles, $101,608. Noted Mar. 26.

Streets and Roads

PROPOSED WORK

Me., Portland—Plans widening Elm St. from Congress St. to Cumberland Ave., and other various improvements. $25,000. Engineer not selected.

Mass., Beverly—Voted $75,000 bonds, grading land around high school building. Engineer not selected.

Mass., Boston—City Planning Bd. plans extending Cotting St. from Lowell to Nashua Sts., West End. $100,000. F. H. Fay, chn.

Mass., Boston—Dept. Pub. Wks., plans constructing Wade and Ashford Sts., in Brighton, and widening Grampian Way, in Dorchester. $25,000. J. A. Rourke, comr.

Mass., Woburn—Voted $63,500 bonds, improving and constructing various streets. Engineer not selected.

R. I., East Providence (br. of Providence)—Town Council, W. E. Smyth, clk., plans improving and extending John St., Orlo and Blanding Aves. $25,000.

R. I., South Kingston—Plans new road from Kenyon Ave. to Town Farm, $25,000. S. L. Carpenter, highway comr.

Conn., Middletown—State Hy. Dept., Hartford, appropriated $80,000 for connecting highway, in connection with grade crossing elimination, here.

N. Y., Buffalo—Erie Co. plans concrete paving 25 mi. New Lake Shore Rd. $4,000,000. C. C. Diehl, Ellicott Sq. Bldg., engr.

New Jersey—Freeholders Hunterdon Co. (Lambertville), plans improving road between Lambertville and city line at Trenton, Kentucky rock asphalt. $25,000. G. Davis, Whitehouse Sta., engr.

N. J., Clinton—Bd. Freeholders Hunterdon Co., plans reconstructing Pittstown-Clinton Rd. $25,000. G. Davis, Whitehouse Sta., engr.

N. J., Vineland—Freeholders Cumberland Co. (Bridgeton), plans improving 1½ mi. Landis Ave., here. W. M. Sharp, Bridgeton, engr.

W. Va., Ripley—Jackson Co. plans election $90,000 bonds, road work in Washington Dist. E. Staats, Ripley, co. clk.

W. Va., Spencer—Roane Co. plans erection $75,000 bonds, improving roads in Curtis Dist. S. P. Whitney, Spencer, engr.

N. C., Chapel Hill—State University, H. W. Chase, pres., plans grading campus. $25,000 appropriated. Atwood & Nash, Chapel Hill, engrs.

N. C., Nashville—Nash Co. Hy. Comn., M. F. Manning, chn., making surveys and estimates, improving 47 mi. various roads. M. S. Davis, Louisburg, engr.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, did not accept bids which were advertised Apr. 24, concrete surfacing 8 mi. Clinton-Knox Co. line Rd., 18 ft., Federal Aid Project 82, Anderson Co. Will readvertise. J. G. Creveling, highway comr. Noted Apr. 9.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, making surveys constructing 6 mi. Sunbright-Scott Co. line Rd., Morgan Co., 6 mi. Nashville-Murfreesboro Rd., Davidson Co., 18 mi. Dover-Clarksville Rd., Stewart Co., 10 mi. Crab Orchard-Crossville Rd., Cumberland Co., 10 mi. Carthage-Wilson Co. line Rd., Smith Co., and 7 mi. Hornbeak-Troy Rd., Obion Co. J. G. Creveling, highway comr.

O., Canton—Stark Co. takes bids in spring, improving 1.5 mi. Canton-Sherman Church Rd., $30,000; also Brewster-Canal Fulton Rd. A. M. Wise, Court House, Co. engr.

O., Columbus—Making plans grading, laying necessary water services and sewer connections and paving 471 ft. Chapel St., 21 ft., brick $5,539, concrete $5,042; 1,008 ft. alleys West Michigan and Linwood Aves., 20 ft., brick $7,313, concrete $6,415; 3,586 ft. Charles St., Huron and Frederick Aves., brick $68,524, asphalt $57,865; 349 ft. alley North Leonard Pl., 14 ft., brick $2,164, concrete $1,928; 629 ft. alley West Findlay Ave., 16.5 ft., brick $3,667, concrete $3,236; 341 ft. alley North Jackson St., 15 ft., brick $1,982, concrete $1,755. R. H. Simpson, city engr.

O., Dayton—Plans curbing, guttering and brick, asphalt or rein.-con. paving 5,000 sq.yd. Niagara St. $33,370. J. F. Hale, city engr.

O., Lisbon—Columbiana Co. takes bids in spring, brick paving Summitville-Salineville Rd., $55,000 and Petersburg-Unity Rd., $25,000; improving Pine Lake Rd., $25,000. L. C. Kirk, Lisbon, engr.

O., New Philadelphia—Tuscarawas Co., plans concrete or macadam paving 3.593 mi. Cambridge-New Comerstown Rd., 16 ft. $143,799. E. Stingel, New Philadelphia, engr.

O., Wellsville—Bd. Control soon takes bids improving Wells Ave., $33,738; and Lisbon St., $25,555. J. George, Wellsville, engr.

Ill., Collinsville—Making preliminary plans grading, curbing and hard surfacing Lebanon Rd. from Church St. to city limits, Norwood Ave., South Aurora, Orient and East Church Sts. $70,000.

Ill., East St. Louis—Takes bids about June 1, curbing and 8 in. concrete surfacing 4,280 sq.yd. 12th St., and asphaltic concrete surfacing 7,520 sq.yd. Gray Blvd., $39,200; also 1,496 ft. 8- to 12-in. vitr. clay sewers in Brockman Pl., $3,400. W. McK. Brown, City Hall, engr.

Ill., Kewanee—Henry Co. plans grading, curbing and granite on rein.-con., rein.-con., brick, rein.-con. or Warrenite bitulithic surfacing 1,800 ft. Beach and Birch Sts. from Prospect to Division Sts. Rein.-con. on granite $29,863, other types $30,023. J. G. Palmer, City Hall, engr.

Ill., Petersburg—Making plans paving various streets joining present city pavements with paved highways. $80,000. Holbrook, Warren & Van Praag, 416 Millikin Bldg., Decatur, consult. engrs.

Ill., Wheaton—Du Page Co. soon takes bids concrete surfacing 6.536 sq.yd. Wayne Rd., State Aid Project 11, Sect. 38. E. L. Gates, co. highway supt.

Wisconsin—State Hy. Comn., Madison, (**F.A.P. means Federal Aid Project**) plans grading and top soiling 15.6 mi. Kilbourn-Friendship-Wisconsin Rapids Rd., F.A.P. 394-A, Adams Co., $100,000; gravel surfacing 6.25 mi. Kilbourn-Friendship-Wisconsin Rapids Rd., F.A.P. 394-B, Wood Co. $75,000, 1 mi. Stinson Hill, intersection of Trunk Highways 23 and 73, F.A.P. 351-A, Green Lake Co. $12,000, Shullsburg-Monroe Rd., F.A.P. 374-C, Lafayette Co., $55,000, Prentice-Clifford-McCord-Rhinelander Rd., F.A.P. 335-A, Oneida Co. $15,000, 4.6 mi. Red Wing-Ellsworth Rd., F.A.P. 384-B, Oneida Co., $44,000, 4 mi. Stiles Junction-Wausaukee-Michigan State Line Rd., F.A.P. 348-A, Marinette Co., $84,500; concrete paving 5 mi. Spooner-Superior Rd., F.A.P. 377-B, Douglas Co. $160,000, 3.9 mi. Kilbourn Rd., F.A.P. 361-B, Racine Co., $125,000; constructing concrete Sink Hole on Trunk Highway 41, Jefferson Co., $5,000; clearing, grubbing, bridging, etc. F.A.P. 37[illegible] Washburn Co., $62,000; eliminating [illegible] grade crossings and gravel surfacing Prentice-Clifford, McCord-Rhinelander [illegible] F.A.P. 355-A, Lincoln Co., $55,000. J. [illegible] Donaghey, highway engr.

Wisconsin—State Conservation Comn., Madison, plan improving roads in North [illegible] Forest Park, Vilas Co. $19,000, [illegible] Lake Park, Sauk Co. $7,500, Interstate Park, Polk Co. $2,500, Crystal Spring Rds., 1, 2 and 3, Peninsula Park, Door Co. $5,000. E. S. Hall, Madison, comr.

Ia., Cedar Rapids—Plans concrete surfacing 4,668 sq.yd. 11th St. W. and Hinkley Ave.; brick surfacing 2,410 sq.yd. 2nd St. W. and 7th Ave.; and concrete curbing and guttering 1,837 ft. Hinkley Ave. and 2[illegible] St. W. $30,000. T. F. McCauley, city engr.

Neb., Pender—Making preliminary plans grading, curbing and hard-surfacing [illegible] blocks various streets. Nixon & Reynolds, 305 Grain Exch. Bldg., Omaha, engrs.

Neb., Wilbur—Making preliminary plans grading, curbing and hard-surfacing [illegible] blocks various streets. Nixon & Reynolds, 305 Grain Exch. Bldg., Omaha, engrs.

Mo., Clayton—City Clerk takes bids in June grading, concrete curbing, guttering and asphaltic paving 20,000 sq.yd. Hanley Rd. from Clayton Rd. to north city limits. $75,000. Keck Surveying Co., 721½ Chestnut St., St. Louis, engr.

Mo., Palmyra—Plans grading, curbing and concrete paving, approximately 18,000 sq.yd. various streets. $60,000. W. [illegible] Rollins & Co., 521 Railway Exch., Kansas City, engr.

Mo., Webb City—Voted $40,000 bonds paving various streets. R. Hodgston, Webb City, engr. Noted Apr. 23.

Arkansas—State Hy. Dept., Little Rock, making preliminary plans grading, gravel surfacing, etc., Van Buren-Alma Rd., Crawford Co., incl. steel bridge across Clear Creek, $80,000; grading, hard surfacing, etc., 25 mi. Warren-Starr City Rd., Bradley, Cleveland and Lincoln Counties, and 10 mi. Foreman-Lewis Ferry Rd., Little River Co. R. C. Limerick, highway engr.

Tex., Anderson—Grimes Co. making plans grading, bridging, etc. 6.71 mi. State Highway 6, 26 ft. $75,000. O. A. Seward, Jr., Navasta, co. engr.

Tex., Anson—Jones Co. making plans grading, bridging, etc. 11.5 mi. State Highway 30, $34,000; 15.4 mi. State Highway 18, $74,500; and 20 mi. State Highway 93, $41,050, all 26 ft. J. W. Puckett, Stamford, co. engr.

Tex., Bellville—Austin Co. making plans grading, bridging, etc., 16.9 mi. State Highway 36, 26 ft. $120,000. H. Schroeter, Wallis, co. engr.

Tex., Corsicana—Navarro Co. c/o B. W. George, judge, election May 7, $7,000,000 bonds for road work. W. W. McClendon, Corsicana, engr.

Tex., Denton—Making plans paving Texas St. and Bell Ave. near Industrial Arts College. $25,000. H. L. Brewster, Denton, engr.

Tex., Galveston—Election May 12, $275,000 bonds for paving and $2,000,000 bonds for grading various roads. C. B. Holt, city engr.

Tex., San Diego—Duval Co. making plans surfacing 3.98 mi. State Highway 12-A, 18 ft. $36,000. F. E. Hess, Floresville, engr.

Tex., Wortham—Election soon $60,000 or more bonds, surfacing various streets. A. J. McKinney, city secy. engr.

Okla., Holdenville—Plans grading, curbing and concrete surfacing 9,480 sq.yd. North Kelkar St., $39,460; and 6,170 sq. yd. North Gulf St., $28,316. C. H. Edge, Holdenville, engr.

Okla., Jefferson—Waurika Co. election soon $125,000 or more bonds, hard-surfacing Meredian Highway from north line of County to Red River. Address County Commissioners. Engineer not selected.

Okla., Mangum—Making preliminary plans paving various streets. $60,000 or more. Benham Eng. Co., 512 Gumble Bldg., Kansas City, Mo., engrs.

Okla., Okemah—Soon takes new bids surfacing 4 blocks various streets. $25,000. Former bids rejected. Holway Eng. Co., Wright Bldg., Tulsa, engrs. Noted Jan. 8.

Okla., Stroud—Making preliminary plans additional paving in residential district. Election soon $60,000 or more bonds for same. Benham Eng. Co., 512 Gumble Bldg., Kansas City, Mo., engrs.

Colo., Denver—Plans asphalt paving 12 blocks North Denver Paving Dist. 8, $52,000; concrete paving 12 blocks Alley Paving Dist. 131 $25,000, 12 blocks Dist. 132 $29,404, 12 blocks Dist. 130 $33,213; curbing, grading and surfacing 0.5 mi. South Denver Impvt. Dist. 23 $60,000, Dist. 19 $194,244, 0.5 mi. Dist. 20 $158,705, also Dist. 22; sanitary sewer ½ mi. sq. in South Denver Sewer Dist. 12, Part A. A. K. Vickery, City Hall, engr. Noted Mar. 12.

New Mexico—State Hy. Comn., Santa Fe, made surveys relocating, grading and

Streets and Roads (Continued)

gravel surfacing approximately 40 mi. road from Las Cruces, Dona Co., to Cambray, Luna Co. J. French, Santa Fe, highway engr.

Ore., Portland—City Council takes bids about June 1, widening 1.5 mi. Powell Valley St., 60 to 80 ft., and paving ½ mi. approach to Ross Island bridge, 38 ft. $140,000. R. Laurgaard, City Hall, engr.

Calif., Salina—Made plans grading, concrete curbing and 5 in. concrete paving 82,874 sq.ft. Pine St. between South Main and California Sts. H. F. Cozzens, city engr.

Calif., San Diego—Common Council plans improving West Point Loma Blvd., DeFoe, Voltaire, and Bacon Sts., 386,439 sq.ft. 1.5 in. asphaltic concrete on 3 in. bituminous paving, 9,745 sq.ft. cement sidewalks, 1,312 lin.ft. 6 in. cement curbing, etc.; also 32nd and Grape Sts., 67,202 sq.ft. 1.5 in. asphaltic concrete on 4 in. concrete paving, 9,798 sq.ft. 4 in. concrete paving, etc. F. A. Rhodes, ctiy engr.

Ontario—Dept. Provincial Highways, 110 University Ave., Toronto, plans grading $7,050, oil surface treatment $17,190, maintenance macadam $700, maintenance gravel $26,575; also macadamizing 2 mi. highway at Tillsonburg, $60,000. G. Hogarth, ch. engr.

Ontario—Dept. Pub. Highways, 110 University Ave., Toronto, plans 5 mi. macadam road in Welington Co. $78,000. G. Hogarth, ch. engr.

Ont., Guelph — Soon takes bids cement paving McTague, Stace and Powell Sts. $30,000. S. Nicklin, city engr.

Ont., Guelph—Dept. Pub. Highways, 110 University Ave., Toronto, plans concrete paving 35,000 sq.yd. highways in Wellington Co. $102,220. G. Hogarth, ch. engr.

Ont., Guelph—Plans concrete paving McTague St. $6,845, Slace St. $3,290, and Powell Ave. $6,945; concrete sidewalks on Alice St. $1,705, Allan Ave. $705, Bagot St. $2,222, Bedford St. $2,013, Brock St. $353, Cork St. $1,138, Earl St. $383, Elizabeth St. $862, Ferguson St. $588, Lyon Ave. $322, Morris St. $470, Spring St. $252, and Victoria St. $114. N. S. Nicklin, city engr.

Ont., Hamilton—Plans macadam, asphalt and concrete paving 5 mi. various streets. $500,000. W. L. McFaul, city engr.

Ont., Kingston—City Council soon takes bids sheet asphalt paving Earl, Johnston, William, Garrett and Barrack Sts. $54,000. H. S. Dick, city engr.

Ont., Kitchener—Waterloo Co. plans 12-15 mi. concrete and macadam roads. $277,000. L. S. Lichty, Court House, engr

Ont., London — Suburban Road Comn. plans concrete paving 12,500 sq.yd. Hyde Park Highway. $35,000. C. Talbot, County Bldg., engr.

Ont., Ottawa — Bd. Control soon takes bids macadamizing with tar finish Beechwood Ave. $12,000, 2nd Ave. $13,000; and asphalt paving Main St. $9,000. A. F. Macallum, city engr.

Ont., Ottawa—Plans tar bound macadamizing 9,000 sq.yd. Main St., 2nd and Beechwood Aves. $35,000. A. F. Macallum, city engr.

Ont., Riverside—Plans concrete paving Louzon Rd. $50,000. Code & Code, 116 Chatham St., Windsor, engrs.

Ont., St. Thomas—Plans asphaltic concrete paving 6,500 sq.yd. Woodworth Ave. $26,000. W. C. Miller, city engr.

Ont., Sarnia—Lambton Co. plans to expend $160,000 graveling 2 mi. various concrete and macadam paving roads. $160,000 G. A. McCubbin, Chatham, engr.

Ont., Stratford—Dept. Pub. Highways, 110 University Ave., Toronto, plans concrete paving 3.03 mi. St. Marys Rd. $81,800, surface treating 26.1 mi. macadam roads $23,490, 12.6 mi. gravel road maintenance $6,300, all above in Perth Co. G. Hogarth, ch. engr.

Ont., Toronto — Plans extending Shuter St. from Sherbourne to Ontario Sts., 5,000 sq.yd. asphalt (probably), etc. $120,000. R. C. Harris, city engr.

Ont., Toronto—Plans asphalt on concrete paving Vincent St. $10,867, Cavell Ave. $4,468, Paton Rd. $3,257, Hanson St. $8,494; bituminous concrete paving Spring St. $11,131, and Woodlee Rd. $5,812, concrete paving lane north of D'Arcy St. $3,291, and lane south of Wellesley St. $1,774; concrete sidewalks on Bingham Ave. $2,072, Montgomery Ave. $337, Durie St. $856, Spring St. $2,414, Scarboro Rd. $2,644, Meagher Ave. $1,691, and Hillsdale Ave. E. $2,926. R. C. Harris, city engr.

Ont., Toronto—East York Twp., Sammon Ave. Municipal Yard, plans 11,200 lin.ft. concrete sidewalks on Orley, McMichael, Holborne, Lumsden, Queensdale, Mortimer, Eldon and Nealon Aves. $26,000. G. R. Jack, twp. engr.

Ont., Toronto—York Twp., 40 Jarvis St., plans concrete sidewalks on Humbercrest Blvd., Langmuir Crescent, St. Johns Rd., Lesard, Schell and Waller Aves. $9,070, and Kersdale Ave. $7,015, grading Fife Ave. $15,500. F. B. Goedike, twp.-engr.

BIDS DESIRED

Mass., Northampton — May 11, by Bd. Pub. Wks., City Hall, graveling, curbing, laying sidewalks and rein.-con. paving various streets. T. F. McGrath, chn.; adv. E. N.-R. May 7.

New York—May 15, By A. W. Brandt Comr. State Dept. Pub. Wks., Albany, improving highways in Allegany, Broome, Cattaraugus, Chautauqua, Lewis, and Onondaga Counties; reconstructing highways in Greene, Nassau, Seneca, Suffolk, Ulster, and Westchester Counties; adv. E. N.-R. May 7.

N. Y., Geneva—May 19, by Bd. Pub. Wks., vitr. brick, bitulithic, sheet asphalt, asphaltic concrete or rein.-con. paving 16,000 sq.yd. various streets; adv. E. N.-R. May 7.

N. Y., Long Island City—May 8, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., grading and repaving West Alley and Alley Rds.

N. Y., New York — May 14, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., bituminous concrete paving Eden Ave.; asphalt and granite block paving Fordham Rd.; granite block paving East 149th St.; grading, etc. Adams St., Calhoun and Bogart Aves.

N. Y., St. George — May 12, by J. A. Lynch, pres. Richmond Boro, Boro Hall, napped granite block repaving Bank St. and Richmond Terrace.

N. Y., White Plains—May 20, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading, etc., Silver Lake Park. J. Downer, ch. engr.; adv. E. N.-R. May 7.

N. J., New Brunswick—May 14, by Bd. Freeholders Middlesex Co., concrete paving 41,090 sq.yd. River Rd. in Piscataway Twp. W. F. Buchanan, 175 Smith St., Perth Amboy, engr.; adv. E. N.-R. May 7.

N. J., Wildwood—May 20, by Bd. Freeholders Cape May Co., (Cape May) 2 course bituminous concrete paving 26th St. and Park Blvd., here.; adv. E. N.-R. May 7.

Pennsylvania — May 20, by Dept. Highways, Harrisburg, bituminous on concrete or rein.-con. paving about 44 mi. 14 project in 12 counties. Wright, secy.; adv. E. N.-R. May 7.

Pa., Chalfant—May 14, by Boro Council, W. Skelton, secy., vitr. wire cut brick paving about 40,000 sq.yd. North Ave. J. D. Hall, Municipal Bldg., Swissvale, boro engr.

Pa., Greensburg—May 11, at office W. A. Arter, controller, Westmoreland Co., reconstructing 9,597 ft. road in Penn Twp. starting at village Harrison City, extending to boro line of Manor; also Kentucky rock asphalt resurfacing 7,494 lin.ft., Irwin-Hahntown Rd., and amiesite or Kentucky rock asphalt resurfacing 10,551 lin.ft., Drennen-Pole Run Church Rd.

Pa., Narberth—May 18, by Highway & Sewer Comn., W. M. Wentz, chn., macadam paving, etc., 38,000 sq.yd. various streets.

Pa., Waynesburg—May 9, at office Comrs. Greene Co., Court House, bituminous or Kentucky Rock Asphalt on 10 in. crushed stone surfacing 14,435 ft. road known as "The Coallick" in Franklin, Jefferson and Greene Twps. R. I. Lemley, ch. clk.

Maryland—May 19, by State Rds. Comn., Baltimore, 6 sections highway in Baltimore City, Baltimore, Wicomico, Alleghany, Montgomery and Cecil Counties. J. N. Mackall, chn.; adv. E. N.-R. May 7.

Delaware—May 27, by State Hy. Dept., Dover, grading, guttering and concrete paving 0.966 mi. Contr. CN26; grading and concrete paving 0.64 mi. Contr. CK27; and grading, curbing and concrete paving 8.922 mi. Contr. 53; adv. E. N.-R. May 7.

Fla., Lake City—May 29, by City Comrs., City Hall, E. A. McColskey, mayor, paving, curbing, guttering and storm sewers in various streets. Robert & Co., Inc., Lake City, Fla., and Atlanta, Ga., engrs.; adv. E. N.-R. May 7.

Miss., Aberdeen—May 19, by R. C. Maynard, city clk., grading, curbing and 2 in. asphaltic concrete patented or non-patented paving, etc. 40,000 sq.yd. Commerce, Franklin, Meridian and Maple Sts. A. L. Dabney, 820 Columbia Tower Bldg., Memphis, Tenn., engr. Noted Apr. 9.

Louisiana—May 19, by State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 3.69 mi. Federal Aid Project 149-B, De Ridder-Texas Highway, Beauregard Parish. W. B. Roberts, ch. engr.

Louisiana—May 28, by State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 11.86 mi. State Project 450-A, Logansport-Gloster Highway, Desoto Parish. W. B. Roberts, ch. engr.

O., Akron—May 18, by W. F. Peters, dir. Pub. Serv., grading, curbing, laying sidewalks and vitr. brick paving 5,100 sq.yd. Merriman Rd., and 3,870 sq.yd. Ecton Rd. $67,200. E. A. Kemmler, Delaware Bldg., engr. Noted Apr. 30.

O., Cleveland Heights (Warrensville P. O.)—May 8, asphalt paving 15 various streets. To exceed $300,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Lisbon—June 1, by Comrs. Columbiana Co., grading and macadam paving North Georgetown-Valley Rd. $29,000. L. C. Kirk, Lisbon, engr.

Ind., Bloomfield—May 8, by H. Schell, engr., Bloomfield, grading and graveling 3.9 mi. Daubenspeck Rd., $25,500, and 3.8 mi. Flory Rd., $25,600, for Greene Co.

Ind., Crown Point — May 11, by C. K. Wallace, engr., Crown Point, concrete paving 51,744 sq.yd. Dedelow Rd. $130,700, 38,028 sq.yd. Gleason Rd. $102,345, 53,856 sq.yd. Aubrey Rd. $143,000, and 49,632 sq.yd. Chapman Rd. $131,000, for Lake Co.

Ind., Evansville—May 8, by E. Meisinger, engr., Evansville, grading and graveling 5 mi. Hoeffling Rd., for Vanderburgh Co. $34,751.

Ind., Goshen—May 8, by C. L. Kinney, engr., Goshen, grading and graveling 15,770 ft. Brown Rd., 30 ft., $26,073; concrete paving 24,288 sq.yd. Thornton Rd., $54,277; for Elkhart Co.

Ind., Huntingburg—May 11, by City, improving 25,000 sq.yd. various streets; adv. E. N.-R. May 7. This corrects report in Apr. 30 issue.

Ind., Huntington—May 8, by P. V. Smith, engr., Huntington, sheet asphalt paving 11,264 sq.yd. Ditzler Rd. $26,235, 33,792 sq.yd. Kreigbaum Rd. $75,669, 12,672 sq.yd. Hier Rd. $29,751, and 29,388 sq.yd. Kitch Rd., $64,453, for Huntington Co.

Ind., Muncie—May 8 by G. Steffins, engr., Muncie, concrete paving 11,616 sq.yd. Trueblood Rd., for Grant Co. $26,200.

Michigan — May 15, by Bd. Comrs. Baraga Co., L'Anse, graveling 9.282 mi. State Trunk Line Rd. 69-4, 87,841 sq.yd. gravel.

Mich., Flint—May 18, by Genesee Co., concrete paving 8.913 mi. county road, Sects. A, B and C.

Mich., Jackson—May 11, by Jackson Co., graveling 2 mi. county road in Rives Twp., 4.78 mi. road in Norwell Twp.; and 3.4 mi. road in Liberty Twp.

Mich., Springfield — Taking bids concrete paving 7,929 sq.yd. Assessment Dist. 54, incl. 860 ft. 12 in. sewer; 1,349 sq.yd. Assessment Dist. 55, incl. 155 ft. 12 in. sewer; 11,685 sq.yd. Assessment Dist. 56, incl. 1,590 ft. 12 in. sewer; 5,670 sq.yd. Assessment Dist. 59, incl. 885 ft. 12 in. sewer; and 7,983 sq.yd. Assessment Dist. 60, incl. 1,254 ft. 12 in. sewer. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Ill., Lake Forest—May 15, by City Clerk, grading, curbing and concrete surfacing 24,990 sq.yd. Northmoor Terrace. $145,000. N. W. Campbell, 4 Market Sq., engr.

Wis., Green Bay—May 18, by H. J. Cormier, highway comr., Brown Co., improving 2 mi. West Holland Rd., 7,037 cu.yd. excav., 18,512 sq.yd. one course vibrolithic or concrete paving, etc.; 5,000 lin.ft. Oneida-Freedom Rd., 4,613 cu.yd. excav., 1,600 cu.yd. gravel or stone surfacing; grading 2,900 cu.yd. Pulaski-Anston Rd. J. T. Donaghey, Madison, highway engr.

Wis., Milwaukee—May 12, by Dept. Pub. Wks., grading and concrete paving 11,498 sq.yd. 9 various alleys.

Ia., Carroll — May 12, by Bd. Supervs. Carroll Co., W. T. Bohnenkamp, aud., grading, etc. Sect. B, Federal Aid Project 154, 117,911 cu.yd. earth excav., 2,560 cu.yd. channel change, 300,905 yd. overhaul, etc. J. F. Maher, co. engr.

Ia., Essex—May 11, by F. C. Peterson, city clk., grading and brick, asphalt, vibrolithic, bitulithic or concrete surfacing, etc. 22,000 sq.yd. various streets, Henningson Eng. Co., Natl. Bldg., Omaha, Neb., engr.

Ia., Logan — May 13, by Bd. Superv. Harrison Co., grading, etc. 11.855 mi. road north of Mondomin, 4,503 ft. guard rail, culverts, etc. T. A. Cherry, Logan, co. engr.

Minn., St. Paul—May 12, by H. W. Austin, city purch. agt., improving West 7th St. between Albion St.-Ft. Snelling bridge approach, etc. 27,434 sq.yd. sheet asphalt on 6 in. concrete, 2,163 sq.yd. sheet asphalt on 6 in. rein.-con., 9,560 sq.yd. sheet asphalt on 7 in. rein.con. paving 16,763 lin. ft. concrete curbing, etc., $135,000; also improving Edgecombe Rd. between Randolph and Scheffer Sts., 7,606 lin.ft. curbing, 10,364 sq.yd. sheet asphalt and 725 sq.yd. brick, paving, etc., 32,000. P. N. Coates, 900 Guardian Life Bldg., engr.

Minn., Warren—May 12, by A. G. Lundgren, aud. Marshall Co., (**S. A. R. means State Aid Road**), grading, etc., 11 mi. Job 2501, S. A. R.-H, $25,000, 11 mi. Job 2505, S. A. R.-F, $20,000; and 5.5 mi. Job 2506, S. A. R.-M, $12,000. I. E. Quist, Warren, engr.

Streets and Roads (Continued)

Neb., Wymore—May 12, by J. M. Fieselman, city clk., grading, curbing and various types paving 8,500 sq.yd. Dist. 6. $40,063. G. M. Helmig, Wymore, engr.

Tex., Breckenridge—E. R. Maxwell, city secy. and C. C. Todd, Jr., engr., City Hall, taking bids grading, curbing, storm sewers, hard-surfacing, etc. 25,000 or more sq.yd. various streets. $65,000.

Tex., Brenham—May 14, by Washington Co., grading, bridging, etc. 12 mi. Independence Rd. $140,000. G. A. Bracher, Brenham, engr.

Tex., Dickens—May 23, by Dickens Co., grading, bridging, etc. 12.44 mi. Highway 18, Federal Aid Project 446-A, $170,000. J. W. Alger, Dickens, engr.

Tex., Fairfield—May 21, by J. E. Johnson, engr., Teague, grading, bridging, etc. 6.87 mi. State Highway 7, Federal Aid Project 462, for Freestone Co., $90,000.

Tex., Huntsville—May 29, by D. K. Caldwell, engr. Walker Co., grading, bridging, etc. 15.57 mi. Willis-Montgomery Co. line Rd. Federal Aid Project 460-B. $170,000. Noted Dec. 4.

Tex., Laredo—May 22, by Court Comn. Webb Co., grading, surfacing and bridging 10.78 mi. State Highway 12-A, Federal Aid Project 436-A, 18 ft. $240,000. T. E. Huffman Pirie Bldg., Laredo, engr. Noted Jan. 15.

Tex., Houston—May 15, by J. McVea, city engr., paving various streets, $100,000; and macadam surfacing various suburban roads, $100,000. O. F. Holcomb, mayor.

Tex., Linden—May 19, by S. L. Henderson, judge Cass Co., clearing, grubbing, grading, bridging, etc. 6.82 mi. State Highway 48, Federal Aid Project 457-C. $69,275. F. E. Hess, Linden and Medical Arts Bldg., Dallas, engr. Noted Apr. 9.

Tex., Orange—May 15, by D. C. Bennett, judge Orange Co., 8,000 sq.yd. clam shell from Vidor north on Evadale Rd. $25,000.

Tex., Waxahachie — May 12, by H. R. Stovall, judge Ellis Co., grading, bridging, and concrete surfacing 4.83 mi. State Highway 34, Federal Aid Project 385-D, 18 ft., 119,986 lb. reinforcing, etc., $56,000; 5.89 mi. same road Sect. B, 24 ft., 54,302 lb. reinforcing, etc., $29,400. W. A. Spalding, Waxahachie, co. engr. Noted Apr. 23.

Tex., Wichita Falls — Taking bids permanent paving 25 blocks 12 various streets. $100,000. F. M. Rugely, Wichita Falls, engr.

Oklahoma—May 12, by State Hy. Dept., Oklahoma City, **(S. A. P. means State Aid Project, F. A. P. means Federal Aid Project)**, grading and concrete surfacing 5 mi. Haskel-Bixby Rd., 30 ft., S. A. P. 10, Wagoner Co. $150,000, 4.5 mi. F. A. P. 131, Oklahoma Co. $135,000, and 3.75 mi. Milton Rd., 18 ft., F. A. P. 109-F, Creek Co. $111,000; grading and gravel surfacing 0.65 mi. Stigler Rd., 30 ft., F. A. P. 110, Haskel Co. $25,000, 7 mi. Schoteau-Locust Grove Rd., 30 ft., S. A. P. 49, Maize Co. $84,000, and 6 mi. Nowota-Chelsea Rd., 30 ft., S. A. P. 141, Nowota Co., $73,000; grading 10 mi. McAlester Rd., 30 ft., S. A. P. 50, Pittsburg Co. $30,000, and 3 mi. Yale Rd., 30 ft., S. A. P. 32, Payne Co., $25,000. J. M. Page, highway engr.

Okla, Okmulgee—May 11, by Clerk Okmulgee Co., grading and concrete paving 94,000 sq.yd. road east from Morris. $205,-906. H. C. King, Court House, engr. Noted Apr. 30.

Idaho, Wallace — May 13, by Comrs. Shoshone Co., improving Coeur d'Alene Yellowstone Trail, Federal Aid Project 73-A and 64-B, 2,000 cu.yd. earth excav., 6,829 cu.yd. crushed rock shoulders, 111,447 sq.yd. paving, etc. P. E. Oxley, 202 Pioneer Bldg., Lewiston, dist. engr.

Calif., Chico—City Trustees, taking bids improving Laurel, Mill and Elm Sts., etc. 150,000 sq.ft. cement walks, 28,913 ft. concrete curb, 5,558 sq.ft. driveway approaches, 1,412 ft. depressed curb, etc.

Ont., Bridgeburg—May 11, by A. S. Jackson, town clk., concrete, sheet asphalt, tarvia penetration, macadam or asphalt penetration macadam paving 12,000 sq.yd. various streets. $50,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Oshawa—May 14, by W. C. Smith, city engr., asphaltic concrete paving, etc. 8,000 sq.yd. various streets. $35,000.

BIDS RECEIVED

New Hampshire—State Hy. Dept., Concord, May 1, rein.-con. paving 19,917 sq.yd. East Side Rd., Coos Co., from P. J. Keating, 39 Kane St., Fitchburg, Mass., $50,512. Engrs. est. $63,852.

Massachusetts—Dept. Pub. Wks., State House, Boston, bituminous concrete paving 2,600 ft. highway in Sanwich, from, S. W. Lawrence, Falmouth, $7,241; bituminous macadam paving 3,600 ft. in Seekonk from J. McCormick, 319 Taunton Ave., East Providence, R. I., $23,316, 15,122 ft., in Belchertown from Lane Constr. Corp., 37 Colony St., Meriden, Conn., $121,901, 7,830 ft., in Groveland, from M. McDoough Co., Swampscott $42,583; waterbound macadam paving 3,686 ft., in Rehoboth and Dighton, from F. L. McNeil, Winthrop St., North Dighton, $15,364; improving 4,600 ft., in Mashpee, from Washburn & Sheridan, East Taunton, $19,998. Noted Apr. 23.

Massachusetts—Dept. Pub. Wks., Boston, Apr. 21, bituminous macadam paving 7,150 ft. highway in Stoughton and 2,331 ft. Holbrook, from Powers Bros., 161 Montello St., Brockton, $37,093 and $12,984 respectively, 3,410 ft. in Danvers from M. McDonough Co., Swampscott, $27,812, 4,748 ft. in Barnstable, from A. D. Bridges Sons, Inc., Hazardville, Conn. $24,503, bituminous macadam and concrete paving 8,850 ft. in Raynham, from Angelo Susi & Co., 12 Richfield St., Dorchester, $91,871; bridge and bituminous macadam paving 1115 ft., Sect. A Highway in Williamsburg, from Bianchi & Way, 62 Bliss St., Springfield, $19,236. Noted Apr. 16.

Rhode Island — State Bd. Pub. Wks., Providence, Apr. 22 concrete paving 1.72 mi. Nooseneck Hill Rd. in West Greenwich, Contr. 2504, Federal Aid Project 26, from A. D. Bridge's Sons, Inc., $95,721. Noted Apr. 16.

Rhode Island—State Bd. Pub. Rds., Providence, 250,000 gal. asphaltic oil or refined tar to certain sections of State Rds., from C. C. Plumb Constr. Co., 327 Howard Bldg., Providence, $0.84 per gal., total $21,000. Noted Apr. 24.

New York—A. W. Brandt, comr. highways, Albany, **(e. e. means engineers estimate)**, constructing and reconstructing 0.44 mi. Louden Highway 22, Albany Co., from H. Dumary, 119 State St., Albany, $28,453, e. e. $31,833; 4.27 mi. Waverly-Owego, Part 2, Highway 5168, Swartwood Crossing, Tioga Co., from Di Pilo & Balestreiri Constr. Co., Geneva, $116,173, e. e. $136,313; 5.38 mi. Ripley-Sherman, Part 2, Chautauqua Co., from F. J. Downing, Buffalo, $250,065, e. e. $298,860; 14.78 mi. East Branch-Downsville, Parts 1, 2 and 3, Delaware Co., from J. Walker, 19 Steuben St., Albany, $430,540, e. e. $662,050; 2.67 mi. Slate Hill Unionville Highway 160, Orange Co., from Hull & Saltzman, Highland Mills, $127,859, e. e. $148,181; 3.08 mi. Sanitaria Springs-Harpursville Highway 5243 B, Broome Co., from Ingersol & Barheit, Medina, $143,883, e. e. $174,833. 1.99 mi. Mayfield-Northville, Part 2, Highway 541, Fulton Co., from J. H. Gordon, 91 North Pearl St., $82,949, e. e. $92,974; 5.63 mi. Portville-Obi, Parts 1 and 2, Allegany and Cattaraugus Counties, from P. N. Carll, Olean, $242,386, e. e. $289,503; 8.46 mi. Forestburg-Monticello, Sullivan Co., from J. O. Arborio, New Haven, Conn., $389,734, e. e. $451,956; 4.85 mi. Canisteo-Whitesville, Part 5, Steuben Co., from C. A. Foote & Son, Mt. Morris, $223,561, e. e. $265,705; 4 mi. Trumansburg-Ithaca Highway, Tompkins Co., from H. W. Patterson, Hornell, $157,427, e. e. $184,273; 2.41 mi. Albany-Watervliet Co. Highway 977, Albany Co., from Fitzgerald Bros. Constr. Co., Inc., Proctor Bldg., Troy, $48,928, e. e. $59,510; 2.34 mi. Schenectady Co. line-Scotch Church, Saratoga Co., from J. B. Dower, Ballston Spa., $111,752, e. e. $128,-644; 7.21 mi. Sherman-Mayville, Part 1, Chautauqua Co., from Webber Co., Ionia, Mich., $324,159, e. e. $397,797; 3.36 mi. Maine Highway 374, Broome Co., from O'Day & Ambrose, Binghamton, $146,882, e. e. $170,545; 1.87 mi. Morris-Gilbertsville, Part 1, Highway 315, Otsego Co., from Dale Eng. Co., Mann Bldg., Utica, $68,509, e. e. $73,831; 2.04 mi. Colliersville-Milford Center, Highway 318, and Milford Center-Milford, Highway 674, Otsego Co., from E. V. Chappell, 27 Wall St., Binghamton, $87,168, e. e. $98,779. Noted Apr. 9.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro Queens Subway Bldg., May 4, from Highway Impvt. & Repair Co., 50 Church St., New York City, paving Hinman St. $15,793, sheet asphalt paving 125th St. $10,944, grading, curbing and sidewalks, etc. on 53rd Ave. $12,131, 96th St. $10,576; from Silician Asphalt Paving Co., 41 Park Row, New York City, sheet asphalt repaving Old South Rd. $190,220, from Uvalde Asphalt Paving Co., 1 Bway., New York City, Beach 19th St. $46,135, Lincoln Ave. $54,655, from Cleveland Trinidad Paving Co., Flushing, Van Wyck Ave. $75,040; from Welsh Bros. Contg. Co., 32 Queens St., Astoria, grading, curbing, and sidewalks, etc. on Moore St. $18,990; from H. E. Kordes, 2577 Cooper St., grading 83rd Ave. $4,828; from J. J. O'Brien, William St., Jamaica, grading, sidewalks, etc. on 97th St. $2,695, 125th St. $7,374; from C. H. Georgi, grading, sidewalks, etc. on 91st Ave. $2,005. Noted Apr. 30.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block repaving 128th St., from St. George Granite Co., 90 West St., $42,099; sheet asphalt repaving 67th St. and Lexington Ave., from Sicilian Asphalt Paving Co., 41 Park Row, $18,982 and $12,171 respectively, 119th St. from Interboro Asphalt Co., 2306 Creston Ave. $9,491, 2nd Ave., from J. Meehan & Son, 74 Cortlandt St. $15,778, West Ave., from Uvalde Asphalt Paving Co., 1 Bway., $24,265. Noted Apr. 23.

N. Y., New York—Park-Bd., Dept. Parks, 5th Ave. and 64th St., Apr. 30, asphalt mastic repaving walks of Seward Park, from T. DiRoma, 33 Evelyn Pl., $22,800; asphaltic concrete paving entrance of Central Park, from Asphalt Constr. Co., 205 Bway., $5,484. Noted Apr. 23.

New Jersey—State Hy. Dept., Trenton, concrete paving 44,550 sq.yd. and graveling 29,200 sq.yd. Route 15, Sect. 7, Menantico Creek to Mauricetown Rd., from M. Staub, Pitman, $178,838. Noted Apr. 9.

N. J., Monmouth Beach—Monmouth Co. (Freehold), Apr. 23, concrete paving 21,760 sq.yd. Riverdale Ave. and Beach Rd., from Stryker & Stryker, 198 Monmouth St., Red Bank, $70,622. Noted Mar. 19.

Pennsylvania—State Hy. Dept., Harrisburg, May 1, **(A means Application and R means Route)** from Wilson Johnston Constr. Co., 107 West College Ave., Appleton, Wis., rein.-con. paving 10,506 ft. R. 75, A. 3384, Butler Co. $85,298, from General Paving Co., B. & B. Bldg., Allentown, 12,214 ft. A. 3220, Berks Co. $83,035, from Corrando & Galiardi Constr. Co., Colonial Natl. Bank Bldg., Connellsville, 42,470 ft. R. 337, A. 3176, Indiana Co. $348,586, from W. C. Horn Co., 108 South Main St., Athens, 4,025 ft. R. 299, A. 2341 Bradford Co. $30,000 from Colgan & Kelly, Box 338, State College, 3,502 ft. R. 28, Mifflin Co. $50,046, from E. A. Freshwater & Sons, Painesville, O., 5,591 ft. R. 347, A. 3138, Beaver Co. $45,743; from J. I. Dick, Scottdale, 3,938 ft. R. 70, Allegheny Co. $55,115; from J. A. O'Donnell, 142-144 East St., Coaldale, vitr. brick paving 375 ft. A. 3275, Carbon Co., $10,207, from Ancon Constr. Co., 650 Spring Ave., Collingswood, N. J., grading, etc. 40,318 ft. R. 193, Sect. 1, Huntingdon Co. $63,918, from Miller Constr. Co., Spirit Bldg., Punxsutawney, 51,826 ft. R. 105 Sect. 3, Cameron Co. $193,961. Noted Apr. 23.

Pennsylvania—State Hy. Dept., Harrisburg, **(A. means Application and R. means Route)**, rein.-con. paving 10,302 ft. R. 236, A. 3143, McKean Co., from Winter & Yaple, 909 Cascade St., Erie, $77,596, 11,167 ft. R. 174, Susquehanna Co., from Lincoln Constr. Co., Strafford, $95,616, 50,542 ft. R. 294, A. 3355, Mercer Co., from J. C. Devine Co., Alliance, O., $379,343, 50,182 ft. R. 232 and 363, Wyoming Co., from Freeland Constr. Co., 501 Amer. Bank Bldg., Hazelton, $677,051, 41,872 ft. R. 164, Sect. 2, Monroe Co., from Nickell-Grahl Constr. Co., Box 67, Butler, $426,424, 9,587 ft. R. 288, Sect. 3, Fayette Co., from F. F. Hallam & Son, Fairmount, W. Va., $90,063; bituminous on concrete or rein.-con. paving 30,401 ft. R. 103, A. 3376-3308, Tioga Co., from D. L. Dennis, Smethport, $218,522; grading, etc., 69,413 ft. R. 7, Sect. 2, Pike Co., from W. A. Palmer, Inc., Bethlehem, $270,875. Noted Mar. 26.

Pa., Phila. — Bureau Highways, Pub. Wks., Apr. 28, grading Packer St., from Provident Housewrecking Co., 133 Greenwich St., $162,672; Pattison St. from 10th to 11th Sts. and 10th St., from Vare Constr. Co., 1120 Race St., $747,745; Pattison St. from 11th to Broad Sts., from Stange Constr. Co., 1703 North 55th St., $128,502; Pattison St. from 20th to Broad Sts., and 11th St., from F. J. Boas, 291 North Broad St., $183,628 and $192,415 respectively; 20th St., from McNichol Paving & Constr. Co., 1923 Cherry St., $173,141.

Delaware—State Hy. Dept., Dover, Apr. 22, from Old Line Constr. Co., Chestertown, Md., grading, etc., 1.09 mi. Dupont Rd. Lincoln City, Contr. SC-40, 3,000 cu.yd. excav. $1.25 per cu.yd., 100 cu.yd. borrow $1.25, 1,930 cu.yd. concrete paving $14.70, etc., total $34,694, from R. H. Johnson, Wilmington, 0.24 mi. roads in Drawyers, Contr. 37-D, 750 cu.yd. excav. $1.25 per cu.yd. 200 cu.yd. borrow $1.25 yd., 950 tons Br slag base course $5.14, 2,950 sq.yd. amiesite $1.76 per sq.yd. or 2,950 sq.yd. penetration macadam $1.38 per sq.yd., etc. total penetration $10,761, amiesite $11,882; from Lee & Marvel, Townsend, fill at Lum's Pond, 1,250 ft., Contr. CN-19A, 4,000 cu.yd. excav. $0.0895 per cu.yd., total $3,000. Noted Apr. 2.

Maryland—State Roads Comn., Baltimore, concrete paving 3.88 mi. Contr. Ce-48, Cecil Co., from Sutton Co., Jefferson Bldg., Phila., Pa. $113,402, 2.26 mi. Contr. T-22, Talbot Co., from Kauffman Constr. Co., Denton $54,145, 7.5 mi. Contr. G-29, Garrett Co., from Tri-State Eng. Co., Cumberland, $242,832, 0.78 mi. Contr. Ba-52, Baltimore Co., from Christhilf & Ensey Co., 1625 Ridgley St., Baltimore, $20,107; graveling 2 mi. Contr. SM, St. Marys Co.,

Streets and Roads (Continued)

from J. A. Wilmer, La Plata, $13,542; concrete shoulders on 11 mi. Contr. W-9A, Washington Co., from Development & Constr. Co., Amer. Bldg., Baltimore $114,-231, 8.75 mi. Contr. A1A, Allegany Co., from Cumberland Constr. Co., Cumberland $46,720, 4 mi. Contr. M-10-B, Montgomery Co., from J. H. Sieling, Laurel $41,454, 11 mi. Contr. H-1-A, Harford Co., from T. P. Murray, Towson $105,450. Noted Apr. 23.

Md., Baltimore—Bd. Awards, grading, curbing and asphalt paving 8,480 sq.yd. Contr. 279 OANA, from Tydings, Marine Co., 2 East Lexington St., $23,710; 13,550 sq.yd. Contr. 278-OC, from Amer. Paving Co., Montebello Ave., $67,304. Noted Apr. 23.

Kentucky—State Hy. Dept., Frankfort, Apr. 21, grading, waterbound macadam, bank and river gravel surfacing 2.689 mi. Louisville-Paducah Rd., State Project 8-B, Federal Aid 51-B, Henderson Co., from Corum Bros., Madisonville, $18,185; grading 2.121 mi. Salyersville-West Liberty Rd., State Project 28-A, Federal Aid 120-A, Magoffin Co., from Hunt-Forbes, Ashland, $42,514, and 4.816 mi. same road, Sect. B, Morgan Co., from Smith-Combs Co., Levi, $70,672. Noted Apr. 2.

O., Cincinnati—City, sidewalks, curbing and sheet asphalt repaving, etc., 4,400 sq.yd. Court St. and granite block paving 3,200 sq.yd. Augusta St., from Henkel & Sullivan, 105 Bell Block, $22,392 and $33,279 respectively. Engrs. est. $28,947 and $34,839 respectively. Noted Apr. 9.

O., Cincinnati—Hamilton Co., Apr. 24, 165,000 gal. tar, Grade 1, 227,000 gal. heavy oil, and 10,420 cu.yd. sand on various roads, from J. A. Nickoson, Saylor Park Sta., $74,909. Engrs. est. $95,220. Noted Apr. 16.

O., Cleveland—Cuyahoga Co., brick or concrete paving State Rd. 8, from Freshwater Constr. Co., Davis and Farley Bldg., concrete $303,635, brick $354,448.

Wis., Menasha—J. F. DeCaro, city clk., Apr. 21, curbing, guttering and rein.-con. surfacing approximately 10,556 sq.yd. Elm, and Tayco Sts., from Cox Co., Menasha, at $2.24 per sq.yd. Noted Mar. 26.

Wis., Milwaukee—R. Stoelting, comr. Dept. Pub. Wks., Apr. 27, from W. F. Hunt, 405 Bway., vibrolithic concrete paving 8,729 sq.yd. Burleigh St. $29,500, 1,680 sq.yd. Edgewater Ave. $6,673, 8,661 sq.yd. Lincoln, 28th, Arthur and Hayes Aves. $41,397, from A. E. Retzlaff, 868 Island Ave., eastern half of 60th St. from Pabst to North Aves., $6,522, from J. Bluhm & Son, 1298 Achilles Pl., 57th St. from Vliet to Vine Sts., $20,235; from Kroening Constr. Co., 39th Ave. and Mitchell St., paving Holt, New York, Illinois, Delaware and Pennsylvania Aves., one course concrete $133,506; 7 in. vibrolithic concrete $130,471, from White & Murray, 68 Wisconsin St., asphaltic concrete $143,056. Noted Apr. 23.

Missouri—State Hy. Dept., Jefferson City, Apr. 24, grading 4.472 mi. Clinton-Deepwater Rd., Henry Co., from Quinlan & Kerns Constr. Co., Kansas City, $7,409; 30 ft. grading 0.53 mi. and 4.665 mi. Horton-Nevada Rd., Vernon Co., from Lahar Bros., Sedalia, $15,178 and $29,537 respectively, 3.954 mi. road from Ava east and west, Douglas Co., and 3.618 mi. West Plains-Winona Rd., Howell Co., from Griffith & Harlin, West Plains, $27,119 and $21,587 respectively, 4.923 mi. road from Winona east and west, Shannon Co., from J. G. Nevels & Mosoner, Willow Springs, $30,944, 0.238 mi. Versailles-Gravois Rd., Morgan Co., from Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City $2,107, 0.208 mi. Weaublean-Wheatland Rd., Hickory Co., from H. D. Harper Constr. Co., Lena, Kan. $3,148, 4.28 mi. road from west West Plains and 20 ft. gravel surfacing 4.287 mi. road from Willow Springs north, both Howell Co., from S. P. Harlin, West Plains, $29,579 and $9,022, respectively; 26 ft. grading 2.466 mi. road from Forsythe north, Taney Co., from Littrell & Sprague, Inc., Wichita, Kan., $33,207; 18 ft. concrete surfacing 4.472 mi. Clinton-Deepwater Rd., Henry Co. from M. E. Gillioz, Monett, $44,424, 18 ft. chat surfacing 2.94 mi. Nevada-Ft. Scott Rd., Vernon Co., and 16 ft. gravel surfacing 2.311 Monett Rd. W., Barry Co., from Maney Bros. & Co. and Campbell Bros., Oklahoma City, Okla. $32,960 and $17,047 respectively; 18 ft. chat surfacing 2.74 mi. Nevada-Deerfield Rd., Vernon Co., from C. I. Williams, Monett, $24,486; 20 ft. gravel surfacing 4.243 mi. road from Willow Springs north, Howell Co., from Summerfield Jones Co., Billings, $13,433; 16 ft. gravel surfacing 4.545 mi. and 3.523 mi. Licking-Houston Rd., Texas Co., from S. S. Chaney, Branson, $45,186 and $23,768 respectively, 2.765 mi. road from Monett West, Barry Co., from S. C. Fox, Springfield, $19,717; 18 ft. gravel surfacing 4.824 mi. Kirksville-Greentop Rd., Adair Co., from S. A. Carlson, Macon $28,387, 4.946 mi. Queen City North Rd., Schuyler Co., from F. Eberhardt, Salinas, Kan., $23,177, 4.115 mi. Greentop-Queen City Rd., Schuyler Co., from B. Layton, Kirksville, $13,024; 12 ft. gravel surfacing 4.41 mi. Annapolis-Des Arc Rd., Iron Co., from Wilson Constr. Co., Warrensburg, $55,606, 3.939 mi. road from Fredericktown east and west, Madison Co., from Humphreys & Stebbins, Fredericktown $48,045, 2.765 mi. road from Versailles north and south, Morgan Co., from F. Kersting Co., Jefferson City, $22,640. Noted Apr. 16.

Ark., Arkadelphia — Grading, surfacing, etc. 20,000 sq.yd. various streets in Paving Dist. 2, from Cook & Ransome, Ottawa, brick at $2.90 per sq.yd.; from Mooney & Nickels, Hot Springs, 7 in. concrete, $2.30. Noted Mar. 19.

Ark., Hughes—Francis Co. improving 3.92 mi. Road Impvt. Dist. 5, 29.91 acres clearing, 24.62 acres grubbing, 48,603 cu.yd. excav., 8,218 tons gravel, etc., from W. H. Denison, Cushman, $33,102.

Tex., Jacksboro—H. C. McClure, judge Jack Co., Apr. 14, grading, clearing, grubbing, bridging, etc., 12.84 mi. State Highway 25, Federal Aid Project 568-B, 181,169 lb. reinforcing, etc., from Johnson Bros., Ardmore, Okla., $67,503. Noted Apr. 9.

Colorado — State Hy. Comn., Denver, gravel surfacing 3.181 mi. road between Durange and Bondad Rd. 19, Federal Aid 266-B, La Plata Co., from E. L. and J. L. Morrison, 315 West P. P. Ave., Colorado Springs, $17,272, engrs. est. $25,000; paving and bridging road extending southwest from Merino, Federal Aid 288-B, Logan Co., from Engineers Constr. Co., Greeley, $70,-413, engrs. est. $90,746; grading and paving 1,413 ft. approach to north end of bridge over Arkansas River Federal Aid 290-A and 169-R, Bent Co., from Salle Constr. Co., Pueblo, $34,561, engrs. est. $38,241.

Colorado—State Hy. Dept., Denver, grading, etc. 18,725 mi. Federal Aid Project 288-A in Logan, Washington, and Morgan Counties, from Scott & Curlee, Sterling, $102,627. Engrs. est. $104,400.

Colo., Denver—Dept. Impvts. & Parks, grading, curbing and paving South Denver Dist. 18, from Lawrence Constr. Co., 112 East Elate St., $88,230; Montclair Impvt. Dist. 2, from H. C. Lallier Constr. Co., Hudson, $119,245. A. K. Vickery, City Hall, engr.

Washington—State Hy. Comn., Olympia, from H. G. Johnson, Walla Walla, improving 5 mi. Inland Empire Highway, State Rd. 3, Walla Walla Co., 4,400 lin.ft. rein.-con. curbing at $0.60 per cu.yd., 9,340 cu.yd. earth excav. $0.42, 61,166 sq.yd. concrete paving $2.30, total $160,429; from Hardy & Richings, Yakima, 1 mi. Inland Empire Highway, State Rd. 3, Yakima Co., 6,710 cu.yd. excav. $1.10, 10,667 sq.yd. concrete paving $2.79, 1,230 cu.yd. backfill $2.50, total $54,838.

Calif., Redondo Beach — From H. Wigman, 1905 Summit St., Hermosa Beach, 2 in. on 6 in. concrete paving, etc., 128,560 sq.ft. Diamond St., $49,885.

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam and bituminous concrete paving 8,850 ft. highway in Raynham, to Angelo Susu & Co., 12 Richfield St., Dorchester, $91,871; bituminous macadam paving 7,150 ft. highway in Stoughton, and 2,331 ft. in Holbrook, to Powers Bros., 161 Montello St., Brockton, $37,093 and $12,984 respectively, 3,410 ft. in Danvers, to M. McDonough Co., Swampscott, $27,812; bituminous concrete paving 4,748 ft. in Barnstable, to A. D. Bridges Sons, Inc., Hazardville, Conn., $24,503; bridging and bituminous macadam paving 1,115 ft. Sect. A, in Williamsburg, to Bianchi & Way, 62 Bliss St., Springfield, $19,326. Grand total $213,499. Noted Apr. 30.

Mass., Boston — Dept. Pub. Wks., bitulithic paving St. Marks Rd., Gorham, Deckard and Lanseer Sts., to S. J. Tomasello, 11 Cushing Terrace, Dorchester, $41,-557.

Mass., Boston—See "Materials."

Connecticut — J. A. MacDonald, comr. State Hy. Dept., Hartford, rein.-con. paving 6,960 ft. Shore Rd. in Westport, to Waterbury Concrete Constr. Co., 110 Grand St., Waterbury, $47,996; concrete paving 3,550 ft. West Sect. and 6,960 ft. East Sect. Boston Post Rd. in Westport, to Bridgeport Constr. Co., 355 Ridgefield Ave., Bridgeport, $71,077 and $69,045 respectively; native stone macadam paving 10,071 ft. Indian Wood River Rd. in East Lyme, to P. Benvenuti & Son, 74 Goshen St., New London, $50,791; waterbound macadam paving 12,996 ft. Dodington Rd. in Newtown, to J. Michiel & Bro., 58 High St., Torrington, $66,564. Total $304,733. Noted Apr. 23.

Conn., Hartford—Sheet asphalt on concrete paving asylum, Laurel and Ridgefield Sts., Maple, Bluehills, Capitol and New Britain Aves., to E. Balf Co., Haynes St., $199,180. Noted Apr. 23.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, grading, curbing, and flagging West 6th St., to W. J. McHale Contg. Co., 1250 Jefferson Ave. $2,557, 7th Ave., to Grimm Contg. Co., 170 McKinley Ave. $744, 81st St., to Galco Contg. Co., 745 Dean St., $5,101; asphalt paving 36th St., to Borough Asphalt Co., 1301 Metropolitan Ave. $9,041, 80th and 81st Sts., to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $7,358 and $8,623 respectively. Noted Apr. 30.

N. Y., New York — H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., grading, curbing, etc., Sedgwick Ave. to Remo Realty Co., 645 East Tremont Ave., $43,513; sheet asphalt paving East 214th St. and bituminous concrete paving East 149th St., to Interboro Asphalt Co., 2306 Creston Ave., $6,999 and $26,972 respectively; sheet asphalt paving Morris Ave. to Brusstar Constr. Co., Harlem River and 150th St. $64,282, Allerton Ave. to Gaffney Constr. Co., 50 East 42nd St., $91,-971; bituminous concrete paving McCombs Rd., to C. D. Beckwith, Inc., 2875 Bway., $168,979. Noted Apr. 23.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., to W. J. Fitzgerald, 547 West 45th St., sheet asphalt repaving 37th St. $18,748, 47th St. $28,410; to Brusstar Constr. Co., Harlem River and 150th St., West 170th St. $47,-513; to Uvalde Asphalt Paving Co., 1 Bway., 55th St. $27,711. Noted Apr. 30.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and concrete paving Hylan Blvd., Contr. 5, to Fords Constr. Co., Inc., Fords, N. J., $89,-905; bituminous macadam paving Oakland Ave. and Prospect St., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $13,523 and $24,699 respectively, within franchise area of Staten Island Midland Ry., Richmond Rd., etc., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $36,378. Noted Apr. 23 and 30.

N. J., Belmar — Boro Council, concrete paving F St., to Hyniger Bros., Belmar, $25,699. Noted Apr. 2.

N. J., Elizabeth—Bd. Pub. Wks., asphalt paving Palmlee, Canton, Burnham, Prince, Stewart and Arline Sts., to Gilligan, Barrett & Cahill, Broad St., Newark, $43,975.

Pennsylvania—State Hy. Dept., Harrisburg (**R. means Route and A. means Application**) to C. B. John & Bros., Malvern, rein.-con. paving 2,700 sq.yd. A. 2213 and 2212, Lebanon Co., $3.90 per sq.yd., total $151,757; to J. L. Plummer, Inc., Johnstown, 99,400 sq.yd. R. 121 and 122, Huntingdon Co., $3.32 per sq.yd., total $459,940; to M. J. McMahon, Brookville, 14,800 sq.yd. R. 358 and A. 3123, Jefferson Co., $3.50 per sq.yd., total $71,403 R. 63,357 and A. 3124-3126, Jefferson Co., $3.40 per sq.yd., total $94,891; to R. H. Cunningham & Son Co., Turtle Creek, 22,000 sq.yd. R. 268, Sect. 7, Washington Co., $3.50 per sq.yd., $221,970, 112,105 sq.yd., and 2,189 sq.yd. R. 62, Clearfield Co., $3.40 and $3.50 per sq.yd. respectively, total $673,572; to Blue Ridge Constr. Co., Uniontown, 14,750 sq.yd. R. 268, Sect. 5, Washington Co., $3.30, $80,572; to D. W. Challis & Sons, Sewickley, 39,750 sq.yd. R. 214 A. 3150, Clarion Co., $3.40, $189,103, to Connell, Laub & Bracht, Dayton, O., 73,200 sq.yd. R. 271-A-3286-3287, Crawford Co., $3.35, $322,498; to Cooper Constr. Co., Clymer, 48,600 sq.yd. R. 348 A. 3002 Westmoreland Co., $3.45, $247,699; to Forness & Tower, Olean, N. Y., 50,800 sq.yd. R. 89, A-2977-3271, Warren Co., $3.11, $234,239; to Meredith & McVaugh, Detroit, Mich., 26,500 sq.yd. R. 247, Allegheny Co., $3.40, $145,070; to Hardy & Rankin Co., Cannonsburg, 15,600 sq.yd. R. 115, Washington Co., $3.45 $85,040; to Standard Constr. Co., Altoona, 7,500 sq.yd. R. 188, A. 3039, Westmoreland Co., $3.57, $34,947; to Standard Paving Co., 1101 South Cicero Ave., Chicago, Ill., 4,480 sq.yd. A. 1928-1930, Clarion Co., $3.40, $28,683; to McDermott Constr. Co., Niles, O., 7,950 sq.yd. and 8,300 sq.yd. R. 204, Beaver Co., $3.60 and $3.35 per sq.yd., respectively, $77,773. Grand total $3,119,154. Noted Apr. 9.

Pa., Johnstown — Asphalt paving and about 4,000 ft. storm sewers in Somerset and A Sts., to C. S. Graham Co., Johnstown, $50,999; brick paving, etc. about 12,000 ft. 14 highways to Crissey Constr. Co., Johnstown, $117,183; storm sewers and concrete paving 22 jobs, to Bell Beckel Co., Inc., Johnstown, $115,245. Grand total $283,427.

Pa., Phila.—Bureau Hys., Dept. Pub. Wks., to Dewees Bros., 5th and Forbees Lane, grading Bristol, Cayuga, I. L. Luzerne, Lycoming, M, N, and Sedgley Sts. $107,112, Nippon and Wadsworth Sts. $12,004, to F. Mack Constr. Co., 2820 North 21st St., Calvert, Champlost, Fern, Godfrey, Hancock, Rosemar, Sparks and Spencer Sts. $20,234, to R. B. Wenner, 2313 Walnut St., Churchview St. $31,100, Duval St. and Wellesley Rd. $3,290, 20th St. $4,261, to

Streets and Roads (Continued)

Morrissey Bros., 4345 West 7th St., Conlyn St. $1,635, Front and Robat Sts. $1,358, to T. P. Lee, 5623 Cherry St., Drexel and Ruskin Rds. $7,543, to J. P. McGlory, 2074 North 62nd St., Durand and Idell Sts., $3,724, to H. A. McCleman & Bros., 130 Shunk St., Eastwick St. $14,798, to A. Forenzi, 513 High St., Haines St. (north sidewalk) $1,790, to C. De Vincentis, 1313 South Broad St., Locust, Pine and 47th Sts. $4,121; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving Andrews St. $12,702, Montana St. $13,756, to Eastern Asph. Co., Colonial St., Belgrade, Miller and Willard Sts. $25,977, asphalt repaving Ellsworth St. $14,763, redressed granite block paving Catherine and Queen St. $17,718, South and Spruce Sts. $37,019, 12th St. $41,509, 17th St. $17,667, 19th St. $35,355; 22nd, 25th and 29th Sts. $23,224; to Barber Asphalt Co., 239 North 30th St., asphalt paving Malvern St. $10,572, Wister St. $16,351, 70th St. $3,224, asphalt repaving Ritner St. $6,790; to C. H. Centrone, Jefferson Bay, redressed granite block paving Midvale St. $24,000, Hillside vitr. block repaving Livingston St. $24,986; to J. Salvucci, 534 North 65th St., redressed granite block repaving Pulaski and 18th Sts. $27,315, 2nd St. $53,524; to United Paving Co., Real Estate Trust Bldg., Tasker St. $9,049, 16th St. $8,092, to Acchione & Canuso, 804 South 12th St., 11th St. $29,341, to Union Paving Co., 30th and Locust Sts., 19th St. $17,956; to City Paving Co., 1713 Passyunk Ave., concrete guttering Summit (Rex) Ave. $456, paving and repaving certain alleys (6th Highway Dist.) $5,417; to J. R. Monoghan, Water and Clarkson Sts., hire of motor trucks for hauling asphalt, $29,175.

Pa., Pittsburgh—Alleghaney Co., to McGrady Bros., Braddock, grading Chestnut St., and paving Butler and Keen Sts., in Springdale, paving 5th and 8th Sts., Oakmont, Woodland and Virginia Aves., repaving Washington Ave., grading Edgewood Ave., 6th and 8th Sts., in Oakmont; to Allegheny Paving Co., Pittsburgh, grading, paving and curbing Longvue Dr., Woodlawn Ave., and Spalding Circle, in Mt. Lebanon Twp., engrs. est. $40,000, to Mathew Ott & Co., 412 Warrington Ave., Alfred St., Lebanon, Hazel and Clearview Aves., in Mt. Lebanon Twp., engrs. est. $50,000, to J. Very Co., Castle Shannon, Saxonwald and Rosalea Aves., in Castle Shannon, engrs. est. $25,000. Noted Mar. 5.

Pa., Swissvale—Vitri. brick paving Braddock Ave., to T. George, Swissvale, $49,000.

Md., Baltimore — Bd. Awards, asphalt paving 14,080 sq.yd. Contr. 277-OCOA, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., $63,635. Noted Apr. 30.

Md., Towson—Comrs. Baltimore Co. concrete paving 1 mi. Ridge Rd., Group 8, to Gosnell, Russell & Co., Frederick, $36,484; 1 mi. Benson Ave., Group 9, to Ward & O'Connell, New Amsterdam Bldg., Baltimore, $38,740.

Miss., Columbus—Grading, curbing, guttering and sheet asphalt on concrete surfacing 27,000 sq.yd. 3rd, College, and North 5th Sts., etc., to Morgan-Hill Paving Co., Woodward Bldg., Birmingham, Ala., $81,000. Noted Mar. 26.

La., Shreveport—Asphaltic concrete paving Madison Ave. from Kansas City Southern right of way to Hotchkiss St. to M. Hyman, Shreveport, $31,377.

La., Shreveport—To E. J. Deas Paving Co., Shreveport, paving Sycamore Ave. $6,285, and South McNeil Ave. $3,342; to Dept. Pub. Wks. by day labor, Kings Highway, $25,000.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, (**S. A. P. means State Aid Project, F. A. P. means Federal Aid Project**), slag surfacing 8.56 mi. Crossville-White Co. line Rd., 16 ft., S. A. P. 130, Cumberland Co., to W. C. Anderson Constr. Co., $106,275; concrete surfacing 3.42 mi. Haywood Co. line-Fayette Co. line Rd., F. A. P. 204, Tipton Co., to S. K. Jones Constr. Co., Rand Bldg., Memphis, Tenn. $89,878, 7.02 mi. Athens-Monroe Co. line Rd., 18 ft., F. A. P. 60-A, McMinn Co., to Calloway & Fisher, Lenoir City $195,275, 10.71 mi. Brownsville-Tipton Co. line Rd., 18 ft., F. A. P. 100, Haywood Co., to C. L. Hart Constr. Co., Booneville, Ind., $291,622; bituminous concrete surfacing 4.4 mi. Franklin Co. line Rd., S. A. P. 103, Marion Co., to Texas Road Co., Dallas Co. Bank Bldg., Dallas, Tex., $45,674, 5.75 mi. Bells-Madison Co. line Rd., 16 ft., S. A. P. 165, Crockett Co., to Municipal Paving & Constr. Co., Johnston City, $131,259; bituminous macadam on crushed stone surfacing 3.11 mi. Morristown-Grainger Rd., 16 ft., S. A. P. 160, Hamblen Co., to R. L. Peters Constr. Co., Knoxville, $58,650; rein.-con. box culverts and concrete headwalls on Pelham-Monteagle Rd., S. A. P. 190, Grundy Co., to Alley Constr. Co., Jefferson City, $9,164. Grand total $92,833. Noted Apr. 9.

Tenn., Nashville—Rejected bids Apr. 24, rock asphalt surfacing 10 blocks Fatherland St. Work will be done by day labor. To exceed $25,000. W. W. Southgate, City Hall, engr. Noted Apr. 16.

Ky., Madisonville — Concrete sidewalks, curbing, guttering, etc., 6 mi. various streets, to White Constr. Co., 130 North Wells St., Chicago, Ill., $80,550.

Ohio—Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving 1.405 mi. Sect. "F" Cleveland-Sandusky Rd., Erie Co., rein.-con., to Homberger & Wagar, Sandusky, $44,100; 1.637 mi. Sect. "O-2" National Rd., Miami Co., rein.-con., to C. Krampson, Dayton, $47,876; 3.593 mi. Sect. "J," Cambridge-Newcomerstown Rd., 0.979 mi. Sect. "Newcomerstown," Uhrichsville-Newcomerstown Rd., and 0.637 mi. Sect. "Newcomerstown" Newcomerstown-Uhrichsville Rd., all Tuscarawas Co., all rein.-con., to W. M. Brode, Newcomerstown, $117,066, $27,355 and $17,521 respectively; 1.656 mi. Sect. "C-1" Dayton-Lebanon Rd., Warren Co., bituminous macadam, tar, to C. J. Uible, Hillsboro, $31,160, 10.248 mi. Sects. "G," "H" and "K" Bowling Green-Fremont Rd., Wood Co., asphalt macadam, to J. Mathais, Toledo, $129,880. Noted Apr. 23.

O., Youngstown—Asphalt repaving Market and West Delason Sts., to Kelley-Meyer Co., Youngstown, $42,588 and $25,661 respectively, engrs. esst. $45,000 and $30,000 respectively; Florencedale St., to Branninger & Code, Youngstown, $26,161, engrs. est. $30,000. Noted Apr. 2.

Ind., Terre Haute — Vigo Co., concrete paving 2½ mi. Myers Rd., to Foulkes Constr. Co., 750½ Ohio St., $79,950. Noted Apr. 30.

Mich., Detroit—To Detroit Asphalt Paving Co., 909 Free Press Bldg., grading and sheet asphalt paving 5,375 sq.yd. Racine Ave. $25,138, 2,310 sq.yd. Charleston Ave. $11,010, 9,875 sq.yd. Manor Ave. $44,662, 5,400 sq.yd. Pinehurst Ave. $24,804, 2,175 sq.yd. Abrey Ave. $10,067, 2,105 sq.yd. Norwalk Ave., $10,011, 2,850 sq.yd. Sheehan St. $13,428, 4,180 sq.yd. Forest Lawn Ave. $19,514, 2,075 sq.yd. Pressler Ave. $9,967, 6,450 Carrie Ave. $29,722, 1,830 sq.yd. Curt Ave. $8,607, 2,330 sq.yd. Fordham Ave. $10,862, 835 sq.yd. Blair St. $4,404, 1,195 sq.yd. Troy Pl. $5,825, 3,580 sq.yd. Cherrylawn Ave. $16,141, 2,050 sq.yd. Concord Ave. $9,697, 6,250 sq.yd. Manistique Ave. $28,838, 16,050 sq.yd. Woodmere Ave. $69,099, 15,840 sq.yd. Elmhurst Ave. $71,667, 1,325 sq.yd. Saginaw Ave. $6,597, 5,300 sq.yd. Harold Ave. $25,356, 3,070 sq.yd. Sharon Ave. $13,829, 8,450 sq.yd. Wilshire Ave. $38,170, to Cleveland Trinidad Paving Co., 402 Hammond Bldg., 6,550 sq.yd. Holmur Ave. $29,760, 8,975 sq.yd. Quincy Ave. $40,394, 6,102 sq.yd. Lawton Ave., Sect. 4. $26,640, 3,870 sq.yd. Pilgrim Ave. $17,189, to Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 4,475 sq.yd. Winchester Ave. $20,703, 8,600 sq.yd. Fernhill Ave. $39,311; to Bishop & Weir, 1305 Lafayette Bldg., one course concrete paving, 3,070 sq.yd. Alley 2150 $7,361, 1,880 sq.yd. Alley 2159 $4,707, to Otis Cement Constr. Co., 806 Hammond Bldg., 2,555 sq.yd. Alley 2151 $6,364, 2,390 sq.yd. Alley 2155 $5,837, 1,375 sq.yd. Alley 2156 $3,476, 907 sq.yd. Alley 2161 $2,322, to Wolverine Constr. Co., 400 Penobscot Bldg., 1,535 sq.yd. Alley 2153 $3,814, to R. J. Powelson Co., 6530 Epworth Blvd., 1,550 sq.yd. Alley 2154 $3,960, 1,140 sq.yd. Alley 2157 $2,810, 2,015 sq.yd. Alley 2158 $4,775, 1,390 sq.yd. Alley 2160 $3,477. Grand total $730,315.

Mich., Pleasant Ridge—Concrete paving 12,731 sq.yd. North and South Cambridge Aves., to R. D. Baker, 1631 Elmhurst Ave., Detroit, $36,348.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, grading Route 33, Sect. 3-A, Jasper and Crawford Counties, to D. W. Chapman, Vienna, $40,416; Route 40, Sects. 10-A and 11-A, c/o Jo-Daviess and Carroll Counties, to Winston Bros., 801 Globe Bldg., Minneapolis, Minn., $162,892. Noted Apr. 2.

Ill., Canton — Fulton Co., to Sutton & Moore, Canton, grading, curbing, paving, etc., North Ave. C from Chestnut to Spruce Sts. $9,649, West Spruce St. from Main St. to Avenue C $16,693, and East Myrtle St. from Main to 1st Sts. $3,764. Grand total $30,106.

Ill., Highland Park—Concrete surfacing 8,900 sq.yd. and macadam surfacing 150 sq.yd. various streets, to Western Impvt. Co., 840 9th Ave., Racine, Wis., $43,082. Noted Apr. 9.

Ill., Knoxville—Grading, curbing and surfacing Main St., 21,905 sq.yd. vitr. brick and 1,336 sq.yd. concrete, to Central Eng. Co., 809 Putnam Bldg., Davenport, Ia., $94,267. Engrs. est. $119,000.

Ill., Waukegan—Lake Co., grading 60,342 cu.yd. Volo-Fox Lake Rd., Sect. R-15-D, to Colburn-Thurston Co., Anoka, Minn., $33,152. Noted Apr. 9.

Ill., Wheaton—Du Page Co., to Powers-Thompson Constr. Co., Joliet, concrete surfacing 36,510 sq.yd. Irving Park Blvd., State Aid Project 12, Sect. 31, $63,598, 45,802 sq.yd. same street, Sect. 32, $82,218, 12,352 sq.yd. Eola Rd., State Aid Project 14, Sect. 28, $23,914, 55,546 sq.yd. Warrenville Rd., State Aid Project 6, Sect. 29, $99,645, 7,774 sq.yd. West Chicago Rd., State Aid Project 6, Sect. 34, $13,751; to R. F. Conway Co., 844 Rush St., Chicago, concrete surfacing 31,368 sq.yd. Downers Grove Rd., State Aid Project 9, Sect. 33, $64,333. Noted Feb. 5.

Wisconsin—State Hy. Comn., Madison, to P. Fess, Madison, improving Shawano-Bonduel Rd., Federal Aid Project 345-A, Shawano Co., 150 cu.yd. outlet ditch at $1 per cu.yd., 24,672 cu.yd. earth excav. $0.64, 225 cu.yd. loose rock excav. $1,542 cu.yd. solid rock excav. $3,911 cu.yd. borrow $0.80, 59,557 cu.yd. concrete surfacing, etc. $1.26, total $105,659; to M. Martin, Berlin, improving Green Bay-Oconto-Marinette Rd., Federal Aid Project 393-A, Oconto Co., 4.36 acres clearing $135 per acre, 3.08 acres grubbing $1.35, 22,69 cu.yd. earth excav. $0.68, 150 cu.yd. outlet ditch $1, 3,430 cu.yd. borrow $0.68, 50,947 sq.yd. concrete surfacing, etc., $1.19, total $86,082. Noted Mar. 19.

Wisconsin — State Hy. Comn., at Div. Office 8, First National Bank Bldg., Superior, to V. Nelson, Superior, improving 8.69 mi. Hayward-Cable Rd., Project 406-A, Sawyer Co., and Seeley-Cable Rd., Project 406-B, Bayfield Co., 21.86 acres clearing and grubbing at $65 per acre, 58,080 cu.yd. earth excav. $0.38 per cu.yd., 10,300 cu.yd. loose rock excav. $0.75, 4,840 cu.yd. borrow $0.45, etc., total $79,791. Noted Apr. 9.

Wis., Beloit—Bd. Pub. Wks. Comn., grading, curbing, rein.-con. paving 62,800 sq.yd. various streets, to G. Welch, 206 Water St., $171,850; grading, curbing, concrete paving 29,200 sq.yd. various streets, to Mathes Coal & Constr. Co., 1810 Bowditch St., Davenport, Ia., $91,576. Noted Apr. 2.

Wis., Fond du Lac—Bd. Pub. Wks. asphaltic concrete paving Mary's Ave., to White Constr. Co., 68 Wisconsin St., Milwaukee, $12,841; also Boyle Pl., 12th, 13th, Carpenter, Lloyd, Warner, South Sibley, Follette and South Sts., to J. Rasmussen & Sons, foot of 7th St., Oshkosh, $61,396. Noted Apr. 23.

Wis., Hudson — Bd. Pub. Wks., G. H. Tappine, pres., concrete paving 9,855 sq.yd. Vine and Locust Sts., to A. Larson & Co., Eau Claire, $23,856. Noted Mar. 26.

Wis., Markesan — Green Co. Hy. Comn. (Green Lake), grading and concrete surfacing 12,092 sq.yd. portions of John and Bridge Sts., to J. O. Legreid, Stoughton, $30,049. Noted Apr. 16.

Wis., Kenosha—J. Herzog, highway comr. Kenosha Co., concrete surfacing Bristol and Somers Rds., to L. C. Christianson, Cambridge, $117,776.

Ia., Marshalltown — Marshall Co., improving 4.445 mi. Laurel-Jasper Co. line Rd., Primary Road 409, grading, to J. Herbert & Sons, Marshalltown, $9,400; gravel surfacing, to Moore & Eldridge, Clemmons, at $1.88 and $0.38 for hauling; bridges, to B. Cole, Ames, $6,354. Noted Apr. 2.

Ia., Northwood—Worth Co., grading 125,625 cu.yd. Manly-Fertile Rd. to J. Cosgrove, Algona, at $0.225 per cu.yd.; and 61,548 cu.yd. road west of here, to B. N. Dilts & Son, Swaledale, $0.24 per cu.yd.

Minn., Fergus Falls—H. J. Collins, city clk., curbing and paving, etc., 21,670 sq.yd. various streets, to Super Way Co., Inc., Fergus Falls, $67,343. Noted Apr. 2.

Minn., Moorhead—R. G. Price, city clk., rock concrete paving, etc. 6 blocks 4th Ave. between 8th and 14th Sts., to W. E. Kennedy Co., 7 Bway., Fargo, N. D., $35,372. Noted Oct. 16.

Minn., St. Paul — H. W. Austin, city purch. agt., sheet asphalt paving 16,373 sq.yd. Hewitt Ave., to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., $55,654; 3,328 sq.yd. driveway in Como Park, to Fielding & Shepley, 216 West University Ave., $19,000; 4,932 sq.yd. Goodrich Ave. and 3,904 sq.yd. Como Ave. N., to Thornton Bros., 318 Endicott Bldg., $16,622 and $24,233 respectively. Grand total $115,509. Noted Apr. 16.

Neb., Crete—Grading, curbing, Warrenite bitulithic concrete paving, etc. 8,300 sq.yd. Street Paving Dist. 15, and 10,100 sq.yd. Paving Dist. 18, to Allied Contrs. Inc., 1803 Douglas Bldg., Omaha, $30,774 and $36,649 respectively.

Neb., Lincoln—To Abel Constr. Co., 318 Terminal Bldg., paving streets in Dist. 607 $62,984, Dist. 619 $16,503, Dist. 621 $2,283, Dist. 359 $12,382, Dist. 609 $4,984, Dist. 577 $11,549, Dist. 617 $1,185, Dist. 610 $4,184, Dist. 624 $3,872, also alley between E and F, 11th and 12th Sts. $1,202.

Neb., Stanton—W. E. Cook, City Hall, city clk., grading, curbing and Warrenite paving 16,480 sq.yd. various streets in Dist. 1, to Western Asphalt Paving Corp., 1st

Streets and Roads (Continued)

and Nebraska Sts., Sioux City, Ia., $45,462. Noted Mar. 26.

Missouri—State Hy. Comn., Jefferson City, to Stoner & Deering, Chamois, 30 ft. grading 0.186 mi. road from Festus south, Jefferson Co., $385, 1.85 mi. Flat River-Farmington Rd., St. Francois Co. $415, 16 ft. gravel surfacing 2.07 mi. Mt. Sterling-Drake Rd., Gasconade Co. $16,737; to Kelly & Underwood, Granby, 30 ft. grading 0.322 mi. Asbury-Joplin Rd., Jasper Co. $4,422, 3.633 mi. Nansfield-Mountain Grove Rd., Wright Co., $25,763; to Richards Constr. Co., Advance, 16 ft. gravel surfacing 4.068 mi. Longtown-Uniontown Rd., Perry Co., $37,729, to Public Works Constr. Co., Century Bldg., St. Louis, 3.875 mi. St. Genevieve-St. Maries Rd., St. Genevieve Co., $105,960; to A. G. Sherwood, Independence, grading 3.488 mi. road from Carthage east, Jasper Co. $14,765, 18 ft. concrete surfacing same road $56,519; to M. E. Gillioz, Monett, 30 ft. grading 4.661 mi. Branch-Buffalo Rd., Dallas Co. $32,815, 16 ft. gravel surfacing 0.395 mi. road from Seligman north and south, Barry Co., $4,265; to A. A. Davis & E. S. Wells, Grain Exch. Bldg. Oklahoma City, Okla., grading and 18 ft. concrete surfacing 4.167 mi. Levacy-Wellington Rd., Lafayette Co., $42,540 and $49,083 respectively, 3.594 mi. Wellington-Lexington Rd., Lafayette Co., $27,341 and $42,293 respectively; to Independence Constr. Co., Pittsburg, Kan., 4.729 mi. Asbury-Joplin Rd., Jasper Co., $28,126 and $78,715 respectively. Grand total $567,873.

Mo., St. Joseph—Bd. Park Comrs., grading 42,000 cu.yds. aviation field, to Pub. Wks. Co., St. Joseph $0.30 per cu.yd.

Arkansas—State Hy. Dept., Little Rock, grading, clearing, grubbing, gravel surfacing, etc. 5.05 mi. Federal Aid Project 192-B, Lee Co., to S. K. Jones, Rand Bldg., Memphis, Tenn., $36,745; 9.37 mi. Federal Aid Project 190-B, Lee Co., to J. A. Pardue & Co., Pine Bluff, $55,150, 8.93 mi. Federal Aid Project 221-A, Union Co., to Tarrant & Miles, El Dorado, $56,727; 2.57 mi. Federal Aid Project 172-A, Grant Co., to J. A. Mingea, Sheridan, $4,221. Grand total $152,843.

Arkansas—State Hy. Dept., Little Rock, grading, gravel surfacing, etc., 11.08 mi. Federal Aid Project 180-B, Poinsett Co., to C. Gregory, Little Rock, $45,671.

Ark., Texarkana—Grading, curbing and concrete surfacing approximately 16,000 sq.yd. Dist. 42, to O. D. Yenglin, Texarkana, $34,132.

Tex., San Antonio — Bitulithic surfacing curbing, etc. 7 blocks Cypress, Locust and Augusta Sts., to Southwest Bitulithic Co., Gunter Bldg., $39,753.

Tex., Sulphur Springs—Curbing, guttering and paving 1,930 sq.yd. various streets, to Fleniken Constr. Co., Shreveport, La., $30,000.

Okla., Cordell — Grading, curbing and concrete surfacing 30,317 sq.yd. Church, Calvary, Market and College Sts., to Connelly Bros. Co., Campbell Hotel, El Reno, $90,212. Engrs. est. $103,070. Noted Apr. 23.

Okla., Norman—For 6 in. concrete surfacing various streets, to E. R. Tibbett, 427 West 22nd St., Oklahoma City, $57,881. Noted Jan. 15.

Colo., Denver—To Western Paving & Constr. Co., International Trust Bldg., asphaltic concrete paving 12 blocks each West Denver Paving Dist. 4, $44,283, Capitol Hill Paving Dist. 21 $45,606, and asphalt paving Dist 23 $40,620; to Allied Contractors, Majestic Bldg., asphalt paving Dist. 26 $43,740, Dist. 27 $45,705, Dist. 11 $35,605, asphaltic concrete paving Dist. 25, $47,110; to New Mexico Constr. Co., 4015 Galapago St., asphalt paving Dist. 22, $39,395; to W. F. Pigg & Son, Commonwealth Bldg., concrete paving Dist. 121 $24,445, and Dist. 120 $24,277. Grand total $390,786. Noted Apr. 9.

Nevada—State Hy. Comn., Carson City, constructing 16.86 mi. Nevada-Utah State Line Highway, Route 1, Sect. G, Elko Co., 85,000 cu.yd. excav., 5,305 sta.yd. overhaul, 14.42 mi. prepared sub-grade for shoulders, 18,000 cu.yd. loading and screening, 36,000 cu.yd. hauling, 18,000 cu.yd. spreading gravel, etc., to C. A. Robinson, Twin Falls, Idaho, $68,607. Noted Mar. 26.

Arizona—W. C. Lefebvre, highway engr., State House, Phoenix, improving Benson-Douglas Highway, Federal Aid Project 79-A, 910 cu.yd. excav., 10,050 cu.yd. borrow, 5,000 sta. yd. overhaul, 58,133 sq.yd. 3 in. asphaltic concrete paving, etc., also Bisbee-Tombstone Highway 1,100 tons asphaltic concrete (patching), 5,500 tons asphaltic concrete, (hauling), 105,600 sq.yd. asphaltic flush surfacing, etc., to Phoenix-Tempe Stone Co., Phoenix, $95,931 and $26,543 respectively; improving Benson-Douglas Highway, Federal Aid Project 79-B, 4,802 cu.yd. excav., 5,043 cu.yd. borrow, 3,206 sta.yd. overhaul, etc., to Rogers Bros., Snowflake, $11,749. Grand total $134,222.

Washington—State Hy. Comn., Olympia, grading and concrete paving 4 mi. State Rd. 3 Inland Empire Highway from Walla Walla to Mill Creek and 1 mi. between Walla Walla and College Pl., Walla Walla Co., 64,491 sq.yd. concrete, to T. M. Morgan Paving Co., 929 13th North St. N., Seattle, $170,789; concrete paving 1.63 mi. Pacific Highway, Skagit Co., to Norris Bros., Burlington, $46,418. Noted Mar. 26.

Washington—State Hy. Comn., Olympia, to Anderson & Nelson, Tonasket, improving 7.5 mi. Pend O'Reille Highway, Pend O'Reille Co., 50,360 cu.yd. earth excav. $0.33 per cu.yd., 640 cu.yd. loose rock excav. $0.60, 7,230 cu.yd. solid rock excav. $1.60, 11,830 cu.yd. crushed rock surfacing $1.40, total $53,367, 9.6 mi. State Rd. 4, Lincoln Co., 38,510 cu.yd. earth excav. $0.23, 10,930 cu.yd. loose rock excav. $0.45, 7,100 cu.yd. solid rock excav. $1.20, 13,030 cu.yd. crushed rock surfacing $1.60, total $49,680; to Coyle Constr. Co., 901 Westlake St. N., Seattle, 2.76 mi. State Rd. 1, Pacific Highway, King Co., 51,200 cu.yd. earth excav. $0.40, 3,060 cu.yd. ditch $1, 4,390 cu.yd. gravel surfacing $1.50, total $47,653; to Brecht & Co., Portland, Ore., improving 3.2 mi. Navy Yard Highway, Kitsap Co., 30,240 cu.yd. excav. $0.52, 5,120 cu.yd. gravel surfacing $1.75, total $35,413; to F. McLellan, 1720 16th Ave., Seattle, improving 6.5 mi. Pacific Highway, Pierce Co., 8,520 cu.yd. excav., 31,373 sq.yd. concrete surfacing, etc., $2.15, total $76,077; to Johnson Constr. Co., Exch. Bldg., Portland, Ore., 4.5 mi. Pacific Highway, Clarke Co., 341,640 cu.yd. excav. $0.28, 20 acres clearing $200, 21 acres grubbing $300, 1,335,070 cu.yd. overhaul $0.175, total $156,680. Grand total $418,870. Noted Apr. 2.

Wash., Aberdeen — City Council, vibrolithic concrete paving Dists. 756, 757 and 758, to Haukeli, Hegg & Co., Aberdeen, $96,192. Noted Mar. 19.

Wash., Chehalis—City Council, improving LID-189, Donohue Addition, 3,950 lin.ft. concrete sidewalks, 7,100 cu.yd. earth excav., 11,000 sq.yd. 6 in. concrete paving, and LID-191, National Ave., 3,065 lin.ft. curbing, 6,000 cu.yd. excav., 6,161 sq.yd. 7 in. concrete paving, to Philbrick & Nicholson, Tacoma, $40,946 and $36,337 respectively. Engrs. est. $41,000 and $37,000 respectively. Noted Mar. 12.

Wash., Port Angeles—Clallam Co., gravel surfacing, etc., 9,600 cu.yd. Permanent Highway 7, to Dowell Constr. Co., 517 3rd Ave., Seattle, $25,869.

Wash., Tacoma—Comrs. Pierce Co., concrete paving 3 mi. Permanent Highway 24, to J. H. Collins, Auburn, $78,880. Engrs. est. $80,000.

Ore., Portland—City Council, to A. D. Kern, Exchange Bldg., improving Dekims Ave., 3,069 cu.yd. earth excav. $0.80 per cu.yd., 1,819 sq.yd. paving in tracks $1.90, 8,900 sq.yd. 2 in. asphaltic concrete top $1.15, and 8,900 sq.yd. 4 in. crushed rock base per sq.yd., etc., total $27,896. Engrs. est. $28,356.

Calif., Chico — City Trustees, improving various streets north of 5th St., east of Main St., etc., 373,000 sq.ft. grading, 17,000 sq.ft. 5 in. concrete and 373,000 sq.ft. 5 in. asphaltic concrete paving, etc., to Chico Contg. Co., Chico, $85,250. Noted Apr. 2.

Calif., Los Angeles—To Griffith Co., Railway Bldg., improving O'Farrell St., grading $9,300, 70,474 sq.ft. 1.5 in. asphaltic concrete on 5 in. concrete paving at $0.195 per sq.ft., 7.5 in. concrete paving $0.22, etc., total $40,335; to Grunwald & Tudor, Bartlett Bldg., improving Saturn St., grading $5,000, 170,112 sq.ft. oiled roadway at $0.05 per sq.ft., etc., total $37,743.

Calif., Santa Barbara — Supervs. Santa Barbara Co., improving 9.5 mi. Lompoc-Harris Station Rd., 38,000 cu.yd. excav., 902,000 sq.ft. asphaltic concrete paving, etc., to Southwest Paving Co., 806 Washington Bldg., Los Angeles, $162,999. Noted Feb. 19.

Ont., Kitchener—S. Cassel, clk. Waterloo Co., concrete paving ½ mi. Grohs Corners to Hespeler, to P. Bergmann, 128 King St., Waterloo; and 3 mi. Baden-Wellesley Rd., to Lichty Bros., Wellesley. Engrs. est. $120,000.

Ont., Niagara Falls—Will build concrete pavement on 2nd Ave., by day labor under direction of T. S. Scott, city engr. $50,000.

Buildings—Industrial

PROPOSED WORK

N. H., Keene—PLANT—Burdette Chair Co. plans rebuilding plant, recently destroyed by fire. $80,000. Engineer and architect not selected.

Mass., Amherst—PLANT—Amherst College, G. D. Olds, pres., plans new central heating plant. $75,000 donation. Engineer and architect not selected.

Mass., Boston — PLANT — Hub Laundry Co., 40 Bristol St., having preliminary plans prepared by M. F. Burk, 173 Milk St., 2 story, brick and timber addition. $50,000.

N. Y., New York — ABATTOIRS — G. Kern, Inc., 349 West 37th St., having plans prepared by Stadler, Levine & Craven, archts. and engrs., 29 Bway., two 6 story and basement abattoirs, brick, steel and rein.-con., plain foundation, 11th Ave. and 40th St. $1,000,000.

N. J., Elizabeth—FACTORY—Kalbfleisch Corp., H. L. Derby, pres., plans factory. $200,000.

N. J., Trenton — FACTORY — Freeman Electric Co., 803 East State St., plans 2 story factory. $40,000. J. O. Hunt, 219 East Hanover St., archt.

Pa., Pittsburgh—REPAIR and SALES—Mitchell Gleason Motor Co., having plans prepared by M. Niedlinger, Empire Bldg., 3 story and basement, 150 x 250 ft. repair and sales building, South Euclid Ave., $150,000.

Ga., Rome—COTTON MILL—Brighton Mills, Inc., Brighton Ave., Passaic, N. J., making plans cotton mill, here. $1,250,000. Private plans.

Ont., North Bay—SHOPS, ETC.—Temiskaming & Northern Ontario Ry., North Bay, soon takes bids new shops and heating system. $100,000. S. B. Clement, ch. engr.

BIDS DESIRED

Me., Waterville—SHOP—Maine Central R.R., 222 St. John St., Portland, taking bids 1 story, 100 x 100 ft., rein.-con., brick and steel car repair shop, here. $40,000. B. T. Wheeler, c/o owner, ch. engr.

Mass., Woronoco—WAREHOUSE—Stratmore Paper Co. taking bids 4 story, 42 x 200 ft., rein.-con. and brick addition. $160,000. L. Howes, c/o owner, engr. Noted Apr. 30.

N. Y., Dunkirk—SHOPS—Amer. Locomotive Co., North Jay St., Schenectady, taking bids car shops, here. R. H. White, c/o owner, engr. constr.

Pa., Creighton — PLANT — Pittsburgh Plate Glass Co., Frick Bldg., Pittsburgh, will build five 2 story plant additions. $4,000,000. Work will be done by separate contracts. Five hundred tons special steel for above, to Pittsburgh Bridge and Iron Co., Bessemer Bldg., Pittsburgh, and 5,000 tons steel, to McClintic Marshall Co., Oliver Bldg., Pittsburgh.

Pa., Sunbury—FACTORY—Sunbury Industrial Buildings Co., Inc., taking bids and opens same about June 1, 2 story and part basement, 81 x 170 ft., steel and brick, 2nd and Race Sts. $150,000. D. W. Shollenberger, Williamsport, Pa., archt.

O., Cleveland — FURNACE ROOM — Economy Fixture Co., T. McWeeny, vice pres., 5408 Bragg Rd., taking bids 1 and 2 story, 32 x 67 ft., brick and steel, Bragg Rd. $40,000. Private plans.

Wis., Madison—PLANT—J. R. and E. J. Law, archts., 1st Central Bldg., taking bids 2 story, 66 x 88 ft., brick, steel and rein.-con., plain foundation, for State Journal Printing Co., 115 South Carroll St. $50,000. Noted Apr. 23.

Minn., Winona—PLANT, etc—Wisconsin Railway Light & Power Co., taking bids 1 story, 50 x 59 ft., concrete, brick and steel, plain foundation. $40,000. Mead & Seastone, Journal Bldg., Madison, Wis., engrs.

Mo., Kansas City—POWER PLANT—See "Buildings—Educational, Religious."

Mo., St. Louis—TANK HOUSE—Krey Packing Co., 21st St. and Bremen Ave., will build 3 story and basement, 42 x 78 ft., concrete and brick, 2117 Farrar St. $40,000. Work will be done by separate contracts under supervision of C. Parkinson, Archt., 21st St. and Bremen Ave.

Calif., Merced—POWER PLANT—See "Dams."

Calif., Pomona—MILL—G. S. Swing & G. E. Walker, 308 Citizens Natl. Bank Bldg., Los Angeles, taking bids 1 story, 77 x 302 ft. silk mills, brick and rein.-con., near here. $55,000. C. F. Whittlesey, 6533 Hollywood Blvd., Los Angeles., archt.

CONTRACTS AWARDED

Mass., Dorchester (Boston P. O.)—REPAIR and SERVICE GARAGE—J. Waldman, 38 Hobson St., Brighton, 1 story, 150 x 160 ft. repair and service garage, Livingstone St., here, to R. J. Gauvreau, 43 Tremont St. Archts. est. $100,000. Noted Apr. 16.

Mass., Northampton — PLANT — Northampton Gas & Electric Co., 3 story, 50 x 75 ft., brick and stone addition, to J. R. Wennergren, Florence, Mass. $40,000.

Mass., Roxbury (Boston P. O.) — BAKERY—Berwick Cake Co., 2220 Washington St., 2 story, 70 x 130 ft., rein.-con. and brick bakery, Palmer St., to J. W. Bishop Co., 603 Atlantic Ave. Archts. est. $75,000.

Buildings—Industrial (Continued)

Conn., Middletown — FACTORY — Frissel Fabric Co., Silver St., will build 2 story, 42 x 90 ft., brick and timber addition, Silver St., by day labor. $40,000. Private plans.

N. Y., New York — POWER HOUSE — E. J. O'Malley, comr. Pub. Markets, Municipal Bldg., power house, Exterior and East 151st Sts., to W. W. Constr. Co., Inc., 15 West 40th St. $284,290. Noted Apr. 30.

N. J., Freehold—FACTORY—A. and M. Karagheusian, Center and Jackson Sts., 4 story, 86 x 168 ft. factory, to W. Steele & Sons, 10th and Arch Sts., Phila., Pa.

N. J., Trenton—FACTORY etc.—Circle F Mfg. Co., Monmouth St., 5 story, 40 x 100 ft. factory, and 3 story, 50 x 90 ft. office building, brick, to W. C. Ehret, 13 West State St., $125,000.

Pa., Crum Lynne—FACTORY—Eagan & Johnson Co., 1 story 50 x 200 ft., 50 x 80 ft. and 50 x 60 ft. factory, addition, to McClintic-Marshall, Morris Bldg., Phila. Archts. est. $60,000.

Pa., Phila.—FACTORY—Horn Surgical Co., 1701 Vine St., 1 story and basement, 66 x 77 x 103 ft., brick, plain foundation, 53rd St. and Meeting House Lane, to F. A. Haven Co., 845 North 19th St.

Pa., Phila.—FACTORY—Leeds & Northrup Co., 4901 Stenton Ave., 2 story and basement, 60 x 100 ft., rein.-con. and brick addition, plain foundation, to W. R. Dougherty, 1608 Sansom St. Archts. est. $45,000.

Pa., Phila. — FACTORY—Security Bank Note Co., 223 Chestnut St., 3 story and basement, 83 x 136 ft., rein.-con. and brick, plain foundation, 55th and Sansom Sts., to F. A. Havens Co., 845 North 19th St. Noted Apr. 23.

Pa., Phila.—FERMENTING and STILL HOUSE—D. Berg, Alcohol Co., Delaware Ave. and Tasker St., 1 story, 62 x 120 ft., rein.-con. and brick, plain foundation, to W. Steele & Son, 219 North Broad St.

Pa., Phila.—MILL, etc.—Schletter & Zander, Kensington and M Sts., 3 story and basement, 92 x 175 ft. mill, and 1 story, 30 x 30 ft. power house, rein.-con. and brick, plain foundation, Levick and Keystone Sts., to W. Steele & Sons, 219 North Broad St.

Pa., Phila.—MILL, etc.—J. Zimmerman & Sons, 221 Lehigh St., 4 story and basement, 62 x 175 ft. mill, 1 story and basement, 70 x 80 ft. dye house, and 1 story, 30 x 40 ft. power house, all rein.-con. and brick, plain foundations, N and Torresdale Aves., to W. Steele & Sons, 219 North Broad St.

Pa., Phila. — PLANT — Ballinger Co., archts., 12th and Chestnut Sts., 1 story and basement, 209 x 491 ft., brick and steel factory, office and warehouse, etc., with brick chimney, 125 ft. high, 5 ft. diam, Tioga and Richmond Sts., to Robbins Constr. Co., 1137 North Front St., for D. Weber & Co., 5th and Locust Sts. Noted Apr. 2.

Pa., Phila. — WORKSHOP — Williams Bros., Kinsey and Josephine Sts., 1 story and basement, 20 x 40 ft. and 29 x 86 ft., rein.-con., steel and brick, plain foundation, to Wanta Bros., 1618 Sellers St. $150,000.

Pa., Reading—REPAIR SHOP—Phila. & Reading R.R. Co., Reading Terminal, Phila., 1 story, 330 x 880 ft., brick and steel freight car repair shop, plain foundation, Spring and Richmond Sts., here, to McClintock and Marshall, Morris Bldg., Phila.

Md., Canton (Baltimore P. O.)—PLANT—Lockwood, Greene & Co., engrs. and archts., 100 East 42nd St., New York City, 2 and 3 story and basement, rein.-con. and brick, plain foundation, 5th Ave., here, to Consolidated Eng. Co., 20 East Franklin St., Baltimore, for Gold Dust Corp., 239 West 30th St., New York City. $1,000,000.

O., Niles—POTTERY—Atlas China Co., reconstructing brick, steel and concrete plant, partly destroyed by fire, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, $140,000 to $2200,000. Noted Apr. 9.

Ind., Columbus — PLANT — Columbus Packing Co., three 1 story, 60 x 151 ft., 50 x 150 ft., and 50 x 75 ft., brick and steel, plain foundation, to Bedford Steel & Constr. Co., Bedford. Archts. est. $65,000. Noted Apr. 23.

Ill., Chicago—PLANT—Frederick Post Co., 3615 North Hamlin Ave., 2 story, 50 x 125 ft. plant, to Austin Co., 1300 Burnham Bldg.

Wis., West Allis — SUB-STATION — F. Luber, archt., c/o Milwaukee Electric Railway & Light Co. (owner) Public Service Bldg., Milwaukee, 2 story, 40 x 75 ft., brick and concrete, plain foundation, 77th Ave., here, to Universal Constr. Co., 915 Chestnut St., Milwaukee. Archts. est. $40,000. Noted Apr. 23.

Kan., Ft. Scott — PLANT — Ft. Scott Tribune-Monitor, general contract 2 story and basement, 70 x 120 ft., rein.-con., brick and terra cotta printing plant, to Sharp Bros. Constr. Co., Eldorado, $47,000. Noted Apr. 2.

Mo., St. Louis—PLANT—Natl. Printing & Engineering Co., 9th and Elm Sts., 1 story and basement, 90 x 190 ft., rein-con. and brick, 4225-29 Laclede Ave., to W. C. Harting Constr. Co., 722 Chestnut St. Archts. est. $50,000.

Ark., Ft. Smith — PLANT — Ft. Smith Cereal Co., 914 Grand Ave., 3 and 5 story and basement, 32 x 80 ft., rein.-con. and brick, North 6th St., to J. H. Reddick, Kennedy Bldg. Archts. est. $80,000.

Calif., Emeryville — FOUNDRY MACHINE SHOP—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, rein.-con., foundry, machine shop, etc., here, to Starr-Thebo-Anderton, Sharon Bldg., San Francisco, approximately $149,500.

Buildings—Commercial

PROPOSED WORK

Me., Portland — WAREHOUSE — Pocahontas Fuel Co., 223 Bd. Trade Bldg., Boston, Mass., having plans prepared by H. S. Adams, archt. and engr., 100 Ames Bldg., Boston, Mass., large warehouse, Commercial St. $150,000.

Me., Rockland—HOME—I. O. O. F., F. B. Miller, chn. building comn., plans Odd Fellows Home, $200,000 donated by F. E. Briggs, Jacksonville, Fla. Engineer and architect not selected.

N. H., Franklin — ADMINISTRATION and UTILITY—Golden Rule Farm Homes Assn., plans 3 story and basement, 50 x 60 ft. administration and utility building. $150,000. Engineer and architect not selected.

N. H., Portsmouth—APARTMENT—H. A. Mears, archt., 101 Tremont Bldg., Boston, Mass., having plans prepared 4 story and basement, brick and stone apartment. $175,000. Owner's name withheld.

Mass., Athol—THEATRE and STORE—Ruben Bros., c/o A. Rosenstein, archt., 220 Devonshire St., Boston, having preliminary plans prepared 1 and 2 story and basement, 50 x 100 ft., rein.-con., brick and steel, Main St. $150,000.

Mass., Boston — HOSPITAL — Homeopathic Hospital Bldg. Comn., G. B. Glidden, chn., 551 Tremont St., raising $1,500,000 funds for hospital, Harrison Ave. and East Newton St.

Mass., Boston—STORE and OFFICE—J. E. Stewart, 976 Massachusetts Ave., Cambridge, having sketches made by A. McNaughton, 44 Bromfield St., 4 story and basement, brick, plain foundation, Cambridge St. $150,000.

Mass., Greenfield—CLUB—Knights of Columbus Council, J. J. Galvin, having plans prepared 2 or more story, brick clubhouse, Federal St. $150,000 or more. Private plans.

Mass., Greenfield—HOSPITAL—Franklin Co. Pub. Hospital, H. G. Stetson, chn. Hospital Bd., raising $300,000 funds improving and enlarging hospital. Engineer and architect not selected.

Mass., Leominster—OFFICE—Estate of M. C. Hillery, plans reconstructing, etc., 3 story and basement store and office building, recently damaged by fire. $150,000. Engineer and architect not selected.

Mass., Quincy — POLICE STATION — City plans 2 story and basement, brick and stone, Canal and Sea Sts. $150,000. Engineer and architect not selected.

R. I., Cranston—CITY HALL—City, D. H. Waterman, city clk., having plans prepared by W. R. Walker & Son, 49 Weybosset St., Providence, 2 story and basement, brick and stone, Park Ave. To exceed $150,000. Noted Jan. 22.

R. I., East Greenwich—THEATRE and COMMUNITY HOUSE — Community Theatres, Inc., D. Howland, pres., c/o East Greenwich Town Council, plans theatre and community house, Main St. To exceed $150,000. Engineer and architect not selected.

R. I., Newport—CITY HALL—Bd. Aldermen and City Council voted $250,000 bonds, rebuilding city hall.

R. I., Providence — TEMPLE — Masonic Grand Lodge, Francis St., having preliminary plans prepared by Osgood & Osgood, archts., Grand Rapids, Mich., and Jackson, Robertson & Adams, associated archts., Turks Head Bldg., temple, Francis, Brownell and Park Sts. To exceed $150,000. Noted Oct. 9.

Conn., Bridgeport—APARTMENT—C. J. Berger, Milne Ave., plans 4 story, about 95 x 125 ft., brick and steel, Franklin and Main Sts. $150,000. Private plans.

Conn., Bridgeport—APARTMENT—Burroughs & Ward, 110 East 42nd St., New York City, having plans prepared by Harris & Kruger, Newark, N. J., 6 story, 70 x 140 ft., brick and steel, Fairfield Ave., here. $300,000.

Conn., Hartford—ADMINISTRATION—Hartford Theological Seminary, 155 Broad St., having plans prepared by Allen & Collins, 75 Newbury St., Boston, Mass., brick and stone administration building, Broad St. $150,000.

Conn., Middletown—THEATRE—M. F. Kennedy, Blakeslee Ave., North Haven, plans brick, steel, stone and tile, Main St., here. $150,000 or more. Engineer and architect not selected.

N. Y., New York—APARTMENT—C. L. Strada, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., having plans prepared 6 story, 60 x 75 ft., brick, steel and stone, plain foundation, Grand Concourse near 198th St. $200,000.

N. Y., New York—BANK and OFFICE—Seamans Bank of Savings, Wall St., having plans prepared by B. W. Morris, archt. and engr., 101 Park Ave., brick, steel and stone, plain foundation, Wall and Pearl Sts. $5,000,000.

N. Y., New York—Y. M. C. A., 318 West 57th St., having plans prepared by J. F. Jackson, 137 East 45th St., 14 story, brick, steel and stone, plain foundation, 326 West 57th St. $1,000,000.

N. J., Asbury Park — HOTEL — Brunswick Hotel, M. Levine, proprietor, Kingsley Ave., plans 7 story, 120 x 365 ft. addition. $330,000. Engineer and architect not selected.

N. J., Newark — BANK and OFFICE — Federal Trust Co., 740 Broad St., having plans prepared by G. E. Jones, archt., 5 Clinton St., Denison & Hirons, associated archts., 228 Lexington Ave., New York City, 16 story, brick, steel and stone, plain foundation, Commerce and Broad Sts. $1,250,000.

Pa., Coatesville — MASONIC — Masonic Realty Corp., c/o G. E. Dietrich, having plans prepared by G. E. Savage, Witherspoon Bldg., Phila., 2 story and basement, 54 x 108 ft., rein.-con. and brick masonic building, plain foundation. $150,000.

Pa., Erie—DEPOT—New York Central R.R., c/o G. C. Cleveland, West 3rd St. and St. Clair Ave., Cleveland, O., having plans prepared by Fellheimer & Wagner, 7 East 42nd St., New York City, 1 and 2 story, brick, steel and concrete, Peach St. $500,000.

Pa., Johnstown—STORE—J. G. McCrory Co., 1107 Bway., New York City, plans 3 story and basement, 80 x 120 ft. store, Main St., here. $150,000.

Pa., Lewistown—BANK, APARTMENT and GARAGE—Russell Natl. Bank having plans prepared by Morgan French Co., 19 West 44th St., New York City, 1 story and mezzanine, 43x133 ft., 2½ story and basement, 31x66 ft., steel and brick, plain foundation. $160,000.

Pa., Phila.—APARTMENT—W. L. Charr, Archt., Victory Bldg., preparing plans 5 story and basement, 100 x 150 ft., rein.-con., steel and brick, plain foundation. $400,000. Owner's name withheld.

Pa., Phila. — OFFICE — United Gas Impvt. Co., Broad and Arch Sts., having plans prepared by W. G. Perry, 177 State St., Boston, Mass., 13 story and basement, 70 x 70 ft., rein.-con., brick and steel, plain foundation, 1409-15 Arch St. $500,000.

W. Va., Berkley Springs — HOTEL — Berkley Spring Hotel Corp., F. C. Jackson, pres., having plans prepared by Milburn, Heister & Co., Union Savings Bank Bldg., Wash., D. C., 500 room hotel. Approximately $1,000,000.

Ill., Chicago—APARTMENT—H. J. Apfelbach (owner and archt.), 952 North Michigan Ave., takes bids about May 20, 3 story and basement, 164 x 172 ft., rein.-con., brick and stone, plain foundation, North Taylor St. $225,000. Noted Apr. 16.

Ill., Peoria—COURT HOUSE and MARKET—Peoria Co. defeated $1,250,000 bonds for court house, and $150,000 bonds for public market. Noted Apr. 2.

Wis., Racine—OFFICE and HOTEL—Racine Hotel Co., F. Starbuck, 1015 College Ave., having plans prepared by Betts & Holcomb, 155 West Clark St., Chicago, Ill., 8 story and basement, 104 x 240 ft., rein.-con., brick and steel, concrete pile foundation, 6th and Main Sts. $1,000,000. Fugard & Knapp, 219 East Superior St., Chicago, Ill., engr. Noted Mar. 19.

Mo., St. Louis—APARTMENT—E. M. Worthington, 535 Belt Ave., soon takes bids 9 story and basement, 130 x 215 ft., rein.-con. brick and stone, 4166-68 Lindell Blvd. $750,000. W. S. Frank, Century Bldg., archt.

Tex., Dallas—APARTMENT—Rucker & Jones Realty Co., 1317-19 Commerce St., having preliminary plans prepared by Lang & Witchell, 300 Amer. Exch. Bank Bldg., 7 story and basement, rein.-con., brick and stone, South Ervay St. $1,000,000.

Calif., San Diego—ATHLETIC CLUB—San Diego Athletic Club, 600 Commonwealth Bldg., having plans prepared by W. H. Wheeler, 501 Spreckles Bldg., 7 story and basement, 100 x 150 ft., rein.-con. and steel clubhouse with swimming pool, 7th and "A" Sts. $500,000. Noted Aug. 7.

Buildings—Commercial (Continued)

Calif., San Francisco—APARTMENT—Fabre & Hildebrand, Archts., 110 Sutter St., prepared plans 4 story and basement, concrete, Washington St. near Kearny St. $150,000. Owner's name withheld.

Calif., San Francisco—APARTMENT—Veyhle & Collins, 541 Brannan St., had plans prepared by E. E. Young, 2002 California St., 6 story and basement, rein.-con. and steel, Ellis St. $150,000.

Calif., San Francisco — HOTEL — E. E. Young, archt., 2002 California St., preparing plans 6 story and basement, rein.-con., Ellis St. $200,000. Owners name withheld.

Calif., San Francisco — RESTAURANT and STORE—Commercial Center Realty Co., 916 Kearny St., had plans prepared by W. L. Schmolle, Russ Bldg., 1 story, rein.-con., Green St. $150,000.

Calif., San Jose—HOTEL and STORE—S. Straub, c/o H. Krouse, archt., Bank of San Jose Bldg., having plans prepared 4 story and basement, rein.-con., 2nd St. $150,000.

Calif., Santa Cruz—OFFICE and HOTEL—F. E. Morgan, c/o Walker & Eisen, archts., Great Republic Bldg., Los Angeles, having preliminary plans prepared 1 story, office building with theatre, and 3 story, 150 room hotel, fireproof, Church St. and Pacific Ave. $1,500,000.

BIDS DESIRED

Mass., Boston—HOSPITAL—May 8, by Hospital Dept., City Hall, 9 story and basement, brick, limestone and granite, plain foundation, Albany and East Concord Sts. $750,000. Ritchie, Parsons & Taylor, 15 Ashburton Pl., archts. Former bids rejected. Noted Apr. 30.

Mass., Greenfield—MASONIC—Greenfield Masonic Building Assn. taking bids 3 story and basement, 70 x 121 ft., brick, masonic building. $150,000. J. W. Beals Sons Co., 185 Devonshire St., Boston, archts.

Conn., New Britain — SOCIAL — W. H. McKay, archt., Professional Bldg., taking bids and opens same about May 15, 3 story, 70 x 100 ft., brick and timber, plain foundation, Main St., for Y. M. T. A. & B. Society. $200,000.

Conn., New Haven — THEATRE — L. Montanaro, 722 Grand St., and H. Comen, Orange St., taking bids 2 story, 808 x 150 ft. brick, steel and stone, Whalley Ave. $150,000. H. S. Cannici, 85 Church St., Archt.

N. Y., Brooklyn—HOSPITAL—May 20, by State Hospital Comn., Albany, constructing main hospital building, fire protection system, etc., here. S. W. Jones, Albany, state archt.; adv. E. N.-R. May 7.

N. J., Clinton—COTTAGES—May 18 (extended date), by Bd. Institutions & Agencies, Trenton, 2 story maternity cottage, and 2 cottages for inmates at State Reformatory, here. $150,000. A. B. Mills, State Office Bldg., Trenton, archt. Noted Apr. 23.

Pa., Johnstown — STORE — May 15, by Puma, 101 Adam St. and S. Maiorana, 105 Adam St., 3 story and basement 78 x 132 ft., brick, Adam St. $150,000. A. M. Tadejeske, 101 Adam St., archt.

Pa., Kingston — BANK — May 12, by Morgan French Co., archts., 19 West 44th St., New York City, 1 story, basement and mezzanine, 56 x 151 ft., rein.-con. and brick, plain foundation, here, for Kingston Bank & Trust Co. $150,000.

Pa., Meadville—ORPHANAGE—May 8, by Independent Order Odd Fellows, and W. Holmes Crosby, archt., Veach Bldg., Oil City, 2 story and basement orphanage. $150,000.

Pa., Phila.—APARTMENT—L. Baron, 712 Porter St., will build 4 story and basement, 52 x 190 ft., brick and steel, plain foundation, 53rd and Wynnefield Ave. $300,000. Work will be done by separate contracts.

N. C., Durham — PROFESSIONAL — A. McPherson & A. Kerns taking bids 3 story and basement professional building. Milburn, Heister & Co., Durham and Union Savings Bank Bldg., Wash., D. C., archt.

Ky., Morehead—DORMITORY—May 20, by Supt. Pub. Instruction, Frankfort, Girls Dormitory, 3 story and basement, 50 x 172 ft., rein.-con., plain foundation, for State Normal School. $150,000. Joseph & Joseph, 800 Francis Bldg., Louisville, archts.

O., Cleveland — APARTMENT — F. B. Rabb, 508 Ulmer Bldg., taking bids 4 story and basement, brick and timber, West 112th St. and Lake Ave. $200,000. Braverman & Havermaet, 208 Ulmer Bldg., archts.

O., Cleveland—BATH HOUSES—May 8, by City, 2 story, 60 x 80 ft., and 40 x 60 ft., brick, steel and concrete, Clark and Central Aves. $150,000. H. Kregelius, City Hall, archt.

O., Cleveland—FIRE STATION—May 8, by City, E. A. Barry, dir. Pub. Safety, City Hall, 2 story and basement, 96 x 119 ft., brick, steel and concrete, Central Ave. $200,000. H. Kregelius, City Hall, archt. Noted Oct. 23.

O., Cleveland—OFFICE, etc.—E. McGeorge, archt. and engr., 3030 Euclid Ave., taking bids 2 story, 40 x 100 ft. office building, 1 story, 160 x 160 ft. factory addition, 1 story, 42 x 160 ft. garage, 40 x 50 ft. storage building, and 40 x 40 ft. boiler house, brick and steel, East 131st St., for Elyria Iron & Steel Co., H. B. Wick, pres., 232 East 131st St. $300,000.

Ind., Terre Haute—MARKET—May 15, by Shourds-Stoner Co., archts. and engrs., 510 Tribune Bldg., rein.-con. boiler, engine room and pumphouse, etc., South 1st St., for Wadley Co., 1st and Popular Sts.; excavating and erecting poultry feeding station, cold storage warehouse, etc., to Roeham Bros., 5th and Cherry Sts. Total $160,000.

Mich., Detroit—OFFICE—G. D. Mason & Co., archts., 80 Griswold St., taking bids 10 story and basement, 45 x 100 ft. rein.-con., brick, stone and terra cotta, plain foundation, Bway. Ave., for Sherer Estate, c/o architects.

Ill., Chicago — APARTMENT — H. K. Holsman, archt., 37 South Wabash Ave., taking bids 4 story and basement, 70 x 135 ft., brick and stone plain foundation, 7853 South Shore Dr., for A. H. Ranes, 11 South La Salle St. $500,000.

Ill., Chicago—SALES and SERVICE—Leichenko & Esser, archts., 38 South Dearborn St., taking bids 2 story, 125 x 250 ft., rein.-con., brick and terra cotta, plain foundation, Milwaukee St., for I. B. Tow, 133 West Washington St. $300,000.

Ill., Chicago—THEATRE—J. B. Eberson, archt., 212 East Superior St., taking bids 7 story and basement, 125 x 150 ft., rein.-con., brick and terra cotta, plain foundation, 7900 Stony Island Ave., for Natl. Theatre Corp. J. J. Cooney, pres., 7542 Cottage Grove Ave. $650,000. Noted Dec. 11.

Wis., Milwaukee—THEATRE—May 12, by Peacock & Frank, archts., 445 Milwaukee St., 2 story and basement, 72 x 125 ft., brick and concrete, plain foundation, Delaware Ave., for Badger Building Service, 445 Milwaukee St. $150,000. Noted Mar. 18.

Minn., St. Paul—HOSPITAL—May 14, by Bd. Control Ramsey Co., O. J. Tong, secy., Court House, 4 story and basement, 150 x 160 ft., rein.-con., brick and stone addition, Jefferson and Colbourn Sts. $400,000. Buechner & Orth, 500 Shubert Bldg., archts.

Okla., Newkirk—COURT HOUSE—May 21, by B. Schoonover, clk. Kay Co., 3 story and basement, 75 x 120 ft., rein.-con. and brick, plain foundation, Maple St. $200,000. C. H. Woodruff, Reynolds Bldg., Ft. Worth, Tex., archt. Noted Feb. 26.

Calif., Los Angeles—HOTEL—E. V. Den Hoven, archt., I. W. Hellman Bldg., taking bids 4 story and basement, 175 room hotel, brick and steel, Westlake Ave., for S. Pollack, 1948 New Jersey St. $155,000.

Ont., Toronto—NURSES' HOME—May 18, by E. J. Lennox & Sons, archts., 364 Bay St., 5 story and basement, rein.-con., brick and steel, plain foundation, Bathurst St., for Western Hospital, Bathurst St. $200,000.

BIDS RECEIVED

Minn., St. Paul—HOSPITAL—Ramsey Co. Bd. Control, Court House, Apr. 16, general contract 4 story and basement, 150 x 160 ft., rein.-con., brick, tile and stone hospital addition, Jefferson and Colburn Sts.; from L. W. Baumeister & Son, 1145 Ross St., $368,733, auditorium $12,647, two combined $381,000. Noted Apr. 9.

Calif., Los Angeles—POLICE STATION—City, 2 story and basement, 75 x 115 ft. rein.-con. and brick, West Pico St., from Bowman Constr. Co., 2269 West Washington St., $119,997.

CONTRACTS AWARDED

Mass., Attleboro—STORE and OFFICE—M. Dana, 809 Pemberton Bldg., Boston, 2 story and basement, brick, plain foundation, Park St., here, to Lull Constr. Co., 308 Main St., Pawtucket, R. I. Archts. est. $150,000.

Mass., Boston—APARTMENT—Roosevelt Inc., F. E. Johnson, treas., 209 Washington St., 5 story and basement, 15,000 sq.ft. floor space, brick and stone, plain foundation, Huntington Ave. and Forsyth St., to M. W. Ryan, 763 Massachusetts Ave., Cambridge. Archts est. to exceed $150,000. Noted Apr. 23.

Mass., Boston—BANK—Natl. Shawmut Bank, 40 Walter St., 2 story and basement, rein.-con., brick, steel and stone, 542 Commonwealth Ave., Kenmore Dist., to I. G. Hersey & Son, 53 Wareham St., Boston. Archts. est. to exceed $150,000.

Mass., Cambridge — APARTMENT—Gilmore Constr. Co., 4 Brattle St., will build 4 story and basement, 45 x 125 ft., rein.-con. brick and stone, plain foundation, 31 Concord Ave., by day labor. $150,000. H. Harlow, 4 Brattle St., archt. Noted Apr. 30.

Mass., Lowell—BANK—Appleton Natl. Bank Building Corp., 2 story and basement, brick and steel bank, to T. W. Johnson, 17 Putman Rd. Archts. est. $150,000.

Mass., Salem—STORE and OFFICE—Shikes & Long, 18 Tremont St., Boston, 4 story and basement, 60 x 110 ft., brick and stone, Essex St., here, by day labor $200,000. S. S. Eisenberg, 46 Cornhill St., Boston, archt.

Mass., Springfield — MERCANTILE—Crane Co., 62 Hampden St., 3 story, 80 x 130 ft., rein.-con. and brick, plain foundation, Columbus Ave., to E. F. Carlson Co., 244 Main St. Archts. est. $175,000. Noted Apr. 9.

Mass., West Springfield (Br. of Springfield) — LEAGUE — Hampden Co. Improv. League, 244 Main St., Springfield, 2 story and basement, 75 x 108 ft., brick, here, to L. S. Wood, 14 Stockbridge St. Archts. est. $150,000.

Mass., Worcester—STORE—C. E. Matteson, c/o C. A. Johnson, archt., 405 Main St., 2 story and basement, 100 x 100 ft., brick and concrete, plain foundation, Millbury and Ashmont Aves., to E. P. Pitfield Co., 405 Main St.

R. I., Providence—CLUBHOUSE—Providence Boys' Club, 266 South Main St., 2 story and basement, brick, Main St., to O. D. Purrington, Industrial Bldg. Archts. est. $150,000. Noted Oct. 9.

Conn., Ansonia — TEMPLE — George Washington Lodge, North Main St., 2 story and basement, 70 x 80 ft., brick and stone, North Main St., to H. Wales Lines Co., 134 State St., Meriden. Archts. est. $150,000. Noted Apr. 2.

Conn., Bridgeport—APARTMENT—W. F. Chatlos, Broad St., Stratford, will build 6 story and basement, 80 x 110 ft., brick and steel, Golden Hill St., here, by day labor. $150,000. J. W. Northrop, 211 State St., archt. Noted Feb. 5.

N. Y., New York — APARTMENT — Caputa Realty Corp., c/o M. Del Gaudio, archt. and engr., 160 West 45th St., will build two 6 story, brick, steel and stone, plain foundations, 181st St. and Bathgate Ave., by day labor. $175,000 each.

N. Y., New York — APARTMENT — Holarn Realty Corp., c/o Goldner & Goldner, archts. and engrs., 47 West 42nd St., will build 6 story, brick, steel and stone, plain foundation, Arnow Ave., by day labor. $200,000.

N. Y., New York — APARTMENT — Paterno Building Corp., (owner and contractor), 117 West 54th St., will build 15 story, 52 x 145 ft., brick, steel and stone, plain foundation, Riverside Dr. and 78th St., by day labor. $650,000.

N. Y., New York—APARTMENT—Dochterman Realty Co., c/o J. M. Felson, archt. and engr., 250 West 57th St., will build 5 story, brick, steel and stone, plain foundation, Payson Ave., by day labor. $200,000.

N. Y., New York—APARTMENT—Dochterman Realty Co., c/o J. M. Felson, archt. and engr., 250 West 57th St., will build 5 story, brick, steel and stone, plain foundation, Seamans Ave., by day labor. $225,000.

N. Y., New York—OFFICE—J. T. Lee, 25 West 43rd St., brick, steel and stone, plain foundation, 5th Ave. and 41st St., to Rheinstein & Hass, 21 West 40th St. Archts. est. $5,000,000.

N. Y., New York—POLICE STATION—Police Dept., Center St., brick, steel and stone, plain foundation, Catalpa St., to Eastern Constr. Co., 110 West 40th St. Archts. est. $200,000.

N. Y., New York—STORAGE—F. G. Shattuck Co., 60 West 23rd St., 12 story, 100 x 100 ft., rein.-con. and steel, plain foundation, 43 West 22nd St., to Turner Constr. Co., 244 Madison Ave. Archts. est. $500,000. Noted Mar. 19 under "Buildings—Industrial."

Pa., Phila.—APARTMENT—Sutton & Stephenson, 1317 Washington Ave., will build 4 story and basement, 52 x 92 ft., brick and steel, plain foundation, Chelten Ave. and Laurens St., by day labor. $150,000. Private plans.

Pa., Phila.—WAREHOUSE—Atlas Storage Co., c/o W. E. Sweeting, 37th and Market Sts., 8 story and basement, 60 x 220 ft., rein.-con. and brick, plain foundation, 40th and Walnut Sts., to Evans-Steele, Inc., 2217 Chestnut St. Archts. est. $400,000. Noted Apr. 2.

Md., Baltimore—SALES and SERVICE—T. Mullan, 4001 Greenmount Ave., will build 1 story and basement, 200 x 252 ft., brick and steel, plain foundation, 20th St. west of Harford Ave., by day labor. $200,000. Private plans.

N. C., Raleigh—OFFICE—R. A. Doughton, comr. State Dept. Revenue, 5 story and

Buildings—Commercial (Continued)

basement, 100 x 150 ft., concrete, Morgan St., to W. T. Rose & Co., Goldsboro, $228,000. Noted Apr. 9.

Fla., Tampa — BANK and OFFICE — First National Bank, 416 Franklin St., 13 story bank and office building, Franklin and Madison Sts., to Southern Ferro Concrete Co., 50 East Ellis St., Atlanta, Ga., $1,000,000 costs plus percentage basis. Noted Feb. 5.

O., Cincinnati — WAREHOUSE—Kroger Grocery Co., 813 Main St., 3 story, 200 x 500 ft., rein.-con. and brick, plain foundation, Depot St., to D. Meinken & Son, 2134 Barnard St., $200,000.

O., Cleveland — COMMERCIAL and ARCADE—Colonial Taylor Impvt. Co., c/o L. Abrams, Engineer Bldg., 3 story, brick, steel and concrete, 615 Prospect Ave., to Bolton-Pratt Constr. Co., 7113 Euclid Ave. Archts. est. $200,000.

O., Columbus—APARTMENT—Boyajohn & Barr Co. (owner and contractor), Neil and 11th Aves., will build 9 story and basement, 75 x 79 ft., rein.-con., brick and stone, East Broad St. between Winner and Galta Aves., by day labor. $300,000.

O., Columbus — STORE — Fashion Co., High and State St., 5 story and basement, 40 x 187 ft., rein.-con. and brick, High and Chapel Sts., to F. and Y. Constr. Co., 332 East State St., about $200,000. Noted Mar. 19.

O., Columbus—STORE—Petot Realty Co., 5 story and basement, 21 x 187 ft., steel, stone and concrete, High St., to F. and Y. Constr. Co., 332 East State St., about $165,000.

O., Coshocton—HOSPITAL—Amer. Art Wks. Co., 4 story and basement, brick and concrete, to Austin Co., 16112 Euclid Ave., Cleveland. Archts. est. $150,000.

O., Dayton—GARAGE and MERCANTILE—L. T. Cooper, Bond Bldg., 3 story and basement, rein.-con. and brick, plain foundation, West 1st St., to Frank Hill Smith, Inc., Winters Bldg., $250,000.

O., East Cleveland (br. of Cleveland)—APARTMENT—Epstein Bros., 9203 Yale Ave., Cleveland, 3 story and basement, 74 x 94 ft., brick and timber, Chapman and Elderwood Aves., here, to Kuskin & Levine, 5809 Outhwaite Ave., Cleveland. Archts. est. $150,000. Noted Dec. 11.

Ind., Indianapolis — HOTEL — Reily Realty Co., Fletcher Savings & Trust Bldg., 6 story and basement, 81 x 96 ft., brick and steel, North Capitol St., to Ostrom Realty Co., Peoples Bank. Archts. est. $300,000. Noted Apr. 23.

Ind., Indianapolis — OFFICE — T. A. Moynahan, Ambassador Apartments, will build 8 story and basement, 67 x 165 ft., rein.-con., brick and steel, plain foundation, Delaware St., by day labor. $500,000. A. Fleck, Columbian Securities Bldg., archt.

Ind., Terre Haute — MARKET — See "Bids Desired."

Wis., Kenosha—HOSPITAL—N. M. Dunning, archt., 310 South Wabash Ave., Chicago, Ill., 5 story and basement, brick and concrete addition, here, to W. W. Oeflein, 86 Michigan Ave., Milwaukee, for Kenosha Hospital Assn., 529 South Chicago St. Archts. est. $300,000. Noted Mar. 19.

Wis., Milwaukee — APARTMENT — G. Zagel & Bro., archts., 144 Oneida St., 4 story and basement, 92 x 132 ft., brick and concrete, plain foundation, Prospect Ave., to W. T. Buchholz Co., 1081 Sherman Blvd., for L. and L. C. Goldmann, 526 Mitchell St. Archts. est. $175,000. Noted Apr. 2.

Wis., Milwaukee—HOTEL—M. Tullgren & Sons, archts., 425 East Water St., 8 story and basement, 60 x 100 ft., brick and concrete, plain and wood pile foundation, Sycamore St., to Reisinger & Co., 464 Oakland Ave., for O. Brachamn, 530 Grand Ave. Archts. est. $400,000. Noted Feb. 19.

Wis., Milwaukee — APARTMENT — M. Tullgren & Sons, archts., 425 East Water St., 8 story and basement, 102 x 200 ft., brick and concrete, plain foundation, Grand Ave., to P. Reisens Sons, 1018 Humboldt Ave., for Grand Manor Building Corp., 216 West Water St. Archts. est. $500,000. Noted Mar. 19.

Neb., Lincoln—CAPITOL—State Capitol, general contract 2nd section State Capitol, to J. H. Wiese Co., 1415 W.O.W. Bldg., Omaha, $1,915,000; cut stone, to H. Stuble Cut Stone Co., 208 South La Salle St., Chicago, Ill., $600,000. Noted Apr. 2.

Neb., Omaha—COMMUNITY CENTER—Young Mens & Young Womens Hebrew Assns., c/o H. H. Lapidus, 2205 South 32nd Sts., 3 story and basement, 67 x 120 ft., brick, concrete and stone, 18th and Dodge Sts., to A. Beck, 401 Keeline Bldg. Archts. est. $250,000. Noted July 10.

Neb., Omaha — STOCK EXCHANGE — Union Stock Yards Co., 38 South Dearborn St., Chicago, Ill., 133 x 186 ft., stock exchange building, brick, to P. Kiewits & Sons, 908 Omaha Natl. Bank Bldg., $1,500,000. Noted Oct. 16.

Tex., Dallas—GARAGE—Cary-Schneider Investment Co., 320 Medical Arts Bldg., general contract 4 story (ultimately 20 story) and part basement, L shape, 50 x 108 x 165 ft., rein.-con., brick and terra cotta, Paul and Pacific Aves., to H. T. Apple, 2826 Forest St., about $150,000. Noted Apr. 9.

Tex., Dallas — WAREHOUSE — Texas Drug Co., c/o J. T. Coulson, pres., 900 Commerce St., 3 story (ultimately 5 story) and basement, 104 x 150 ft., rein.-con., brick and steel, Marilla and Browder Sts., to L. H. Lacy Co., 2632 Swiss Ave., $200,000.

Tex., Houston—STORE and GARAGE—M. M. Graves, 2 story, 125 x 175 ft., rein.-con., brick and hollow tile, McKinney and Caroline Sts., to J. B. Townsend, West Bldg., Houston, approximately $150,000.

Wash., Seattle — OFFICE — Securities Building Co., Securities Bldg., 4 story and basement, 100 x 125 ft., rein.-con. addition, 4th and Stewart Sts., to Henrikson-Alstrom Constr. Co., Seaboard Bldg. Archts. est. $250,000.

Calif., Pasadena—MAUSOLEUM—Mountain View Mausoleum, Assn., Pacific Southwest Bldg., will build 200 x 300 ft., rein.-con., North Marengo St., by day labor. $350,000.

Calif., Sacramento—ADMINISTRATION — Sacramento Co., having preliminary plans prepared by R. A. Herold, Forum Bldg., for administration building.

Calif., San Francisco—GARAGE—J. S. Potter, 315 Montgomery St., 6 story, rein.-con., Bush and Kearny Sts., to Cahill Bros., 55 New Montgomery St., $150,000.

Calif., San Francisco — THEATRE, etc. —Golden State Theatre Co., c/o M. Jorgensen, archt., 110 Sutter St., theatre, store and office building, Irving and 14th Aves., to Mission Concrete Co., 180 Jessie St. Approximately $165,000.

Calif., San Francisco — WAREHOUSE and OFFICE—C. C. Morse & Co., 749 Front St., purchased 261,000 sq.ft. site and plans warehouse and office building, Paul and San Bruno Aves.

Ont., Ottawa—OFFICE AND STORE—Metropolitan Life Insurance Co., Ottawa, general contract for office building, Bank, Sparks and Wellington Sts., to G. A. Fuller Constr. Co., Beaver Hall Hill, Montreal, $1,598,800.

Buildings—Educational, Religious

PROPOSED WORK

N. H., Hudson — SCHOOL — Order of Presentation of Mary, St. Hyacinthe, Province of Quebec, plans 2 or 3 story school, here. $200,000. Engineer and architect not selected.

N. H., Keene — DORMITORY — Keene Normal School having plans prepared by C. R. Whitcher, 814 Elm St., Manchester, and takes bids about May 5, for dormitory, here. $225,000. Noted Apr. 16.

Vt., Rutland — CHURCH — Methodist Episcopal Church having sketches made by Woodbury & Stuart, 581 Boylston St., Boston, Mass., 1 story and basement, probably marble and granite, Willians St. $200,000.

Mass., Amherst — DORMITORY — Amherst College, D. G. Olds, pres., plans new dormitory. $200,000 donation. Engineer and architect not selected.

Mass., Boston — SUNDAY SCHOOL — Dudley St. Baptist Church, A. T. Brooks, pastor, 139 Dudley St., Roxbury, having sketches made by J. W. Beals Sons, 185 Devonshire St., 3 story and basement, brick, plain foundation. $150,000.

Mass., Boston—SCHOOLS—School House Dept., T. P. Glynn, chn., plans addition to Washington School, incl. shops for wood and metal working, $240,000; 1 or 2 story kindergarten and primary school, Henry Grew Dist., Hyde Park, $220,000; 2 story school, Walk Hill St., in E. P. Tileston Dist., Dorchester, $150,000; Horace Mann School, 2 or 3 story and basement, Back Bay Dist., $400,000, 2 story, Howard Ave., Thomas Gardner Dist., Brighton, $150,000, all foregoing brick and stone. Engineer and architect not selected.

Mass., Hanover—SCHOOL—School Dept., plans 2 story and basement elementary school. $150,000. Engineer and architect not selected.

Mass., Middleboro—HIGH SCHOOL—Voted $150,000 bonds, new high school. Engineer and architect not selected. Noted Feb. 5.

Mass., Natick—LIBRARY—Morse Institute, c/o Kilham, Hopkins & Greeley, archts., 9 Park St., Boston, having preliminary plans prepared 2 story and basement, brick library, here. $150,000.

Mass., South Boston (Boston P. O.)—CHURCH — Methodist Missionary Society, A. F. Reimer, 581 Boylston St., Boston, raising funds, for St. John's Lithuanian Church, 4th and Atlantic Sts., here. To exceed $150,000. Engineer and architect not selected.

Mass., South Braintree (Ind. Bd. of Boston)—HIGH SCHOOL—Town of Braintree, H. D. Higgins, chn. plans high school, Washington St. $150,000. Engineer and architect not selected.

R. I., Providence—SCHOOL—School Comm., City Hall, had plans prepared at office of A. Hartwell, comr. Pub. Buildings, 3 story school, America St. between Kenyon and Europe Sts. $1,000,000. Noted Mar. 12.

R. I., Woonsocket — HIGH SCHOOL — School Dept. plans 2 story and basement high school. To exceed $150,000. Engineer and architect not selected.

N. J., Long Branch—HIGH SCHOOL—Bd. Educ. plans high school. $550,000. M. P. Roche, city clk. Engineer and architect not selected.

N. J., Perth Amboy—HIGH SCHOOL—Bd. Educ. having plans prepared by Greisen & Tuzik, 175 Smith St., addition to high school. $150,000.

Pa., Bloomsburg—HIGH SCHOOL—Bd. Educ. having plans prepared by Ritter & Shay, Packard Bldg., Phila., Junior and Senior High School, 2 story and basement, 96x214 ft., rein.-con. and brick, plain foundation, Centre St. $200,000.

Pa., Fountain Springs—ACADEMY—Sisters of Immaculate Heart, 5501 Cedar Ave., having plans prepared by P. A. Monaghan, 1713 Sansom St., 3 story and basement, 40 x 245 ft., and 49 x 112 ft., rein.-con., brick and steel, plain foundation.

Ill., Peoria—SCHOOL—Bd. Educ. plans 2 or 3 story, 24 room, rein.-con., brick and steel, plain foundation, Matthew, Ann, Blaine and Antoinette Sts. $300,000. Engineer and architect not selected.

Ill., St. Joseph—HIGH SCHOOL—Bd. Educ., J. N. Walker, pres., having plans prepared by Leese & Ludwick, Temple Bldg., Danville, 2 story and basement, 100 x 140 ft., rein.-con., brick and stone, plain foundation. $150,000.

Ia., Marshalltown — SCHOOLS — Plans election $350,000 bonds for high school and grade school. D. R. Jackson, secy. Bd. Educ.

Kan., Atchison—SCHOOL—Voted $150,000 bonds for schools.

S. D., Groton—SCHOOL—Election May 7, $133,400 bonds, 2 story and basement, rein.-con. and brick school. A. McKiver, clk. Bd. Educ. Engineer and architect not announced.

Mo., Kirksville—SCHOOLS—Voted $200,000 bonds addition to high school and two grade schools, each 2 story, concrete. Thomas, McLennan & Thomas, 527 West 17th St., Des Moines, Ia., archts.

Tex., Harlingen—SCHOOL—Voted $150,000 bonds for new school.

Ont., Ottawa—MONASTERY—Dominican Fathers, 95 Empress Ave., soon takes bids monastery addition, Empress Ave. $200,000. F. B. Doucet, pastor.

BIDS DESIRED

N. H., Keene—DORMITORY—May 14, by W. A. Stone, state purch. agt., State House, Concord, 3 story and basement, 57 x 238 ft., brick and concrete, plain foundation. State Normal School, here. To exceed $150,000. C. R. Whitcher, Beacon Bldg., Manchester, archt.

Mass., Milton — HIGH SCHOOL — Town, J. F. Mitchell, chn. Bd. Selectmen, taking bids 2 story and basement, 10,000 sq.ft. floor space brick and stone addition, plain foundation, Brook Rd. $150,000. Kilham, Hopkins & Greeley, 9 Park St., Boston, archts.

Conn., Bridgeport — LIBRARY — Burroughs Public Library Building Comn., taking bids 3 story and basement, 77 x 207 ft., brick, steel and limestone, Broad, State and Gilbert Sts. $425,000. C. S. Palmer, 114 Whitney Ave., New Haven, associated archt. Noted Oct. 23.

Conn., East Hartford (br. of Hartford)—SCHOOL—Town, taking bids and opens same about May 12, 2 story and basement,

Buildings—Educational, Religious (Cont.)

60 x 150 ft. brick and stone, plain foundation. Darling St. $150,000. W. T. Marchant, 36 Pearl St., Hartford, archt.

Conn., Stamford—CHURCH—St. Marys Roman Catholic Church, J. J. Kelley, pastor taking bids 1 story and basement, 50 x 120 ft., brick, stone and timber church. $150,000. O'Connell & Shaw, 134 Newbury St., Boston, Mass., archts.

N. Y., Tonawanda—SCHOOL—May 12, by Bd. Educ., 2 story, 100 x 150 ft. school. $200,000. Engineer and architect not announced.

N. J. Camden — SCHOOL — May 8, by Bd. Educ., Rosedale School, brick and steel, plain foundation, 36th and Cramer Sts. $150,000. Lackey & Hettle, 5 Hudson Ave., archts.

Pa., Fountain Springs—ACADEMY—May 16, by P. A. Monagahan, archt., 1713 Sansom St., Phila., 3 story and basement, 40 x 245 ft., and 49 x 112 ft., rein.-con. and brick, plain foundation, here, for Sisters of Immaculate Heart. Noted May 7.

Pa., Greensburg—SCHOOL—May 12, by School Bd., M. R. Peoples, secy., 3 story and basement, 145 x 250 ft., rein.-con. and brick, plain foundation. $400,000. M. E. Kressley Co., 214 North 3rd St., Harsberg, archts. Noted Dec. 4.

Pa., Overbrook — SUNDAY SCHOOL — May 12, by Davis, Dunlop & Barney, archts., 1805 Walnut St., Phila., 2 story and basement, 108 x 149 ft., rein.-con., brick and steel, plain foundation, City Line and Lancaster Ave., here, for Overbrook Presbyterian Church. $150,000.

Pa., Port Marion—SCHOOL—May 18, by Bd Educ. and H. W. Altman, archt., Fayette T. and Tr. Bldg., Uniontown, 2 story and basement, brick and tile school. $150,000. Noted Feb. 5.

O., Cleveland Heights (Warrensville P. O.)—SCHOOL—May 18, b yBd. Educ., C. B. Roche, clk., 1781 Lee Rd., 2 story and basement, brick, steel and concrete addition, Noble Rd. $150,000. J. H. Graham & Co., 1610 Euclid Ave., Cleveland, archts. Noted Mar. 5.

O., Lima—HIGH SCHOOL—May 23, by Bd. Educ., E. E. Clem, clk., 2 story and basement, centralized high school in Allen Co., Shawnee Twp. $150,000. Noted Nov. 27.

O., New Lexington — HIGH SCHOOL — May 12, by C. R. Ridenour clk. Bd. Educ., 2 story and basement, 100 x 150 ft., rein.-con. and brick high school. $240,000. J. Q. Adams, New Southern Hotel, Columbus, archt. Noted Jan. 1.

Ill., Lisle—GYMNASIUM and AUDITORIUM — May 15, by Shattuck & Layer, archts., 19 South LaSalle St., Chicago, 2 story and basement, 124 x 150 ft., concrete, brick and stone, here, for St. Prodopius College. $150,000. Noted Apr. 30.

Wis., Madison—CHURCH—Grace Episcopal Church, c/o H. H. Lumpkins, 116 West Washington Ave. and J. R. and E. J. Law, archts., 1st Central Bldg., taking bids 1 story, 60 x 210 ft., rein.-con. and brick addition, plain foundation, Carroll St. $150,000. Noted July 17.

Calif., Compton — ADMINISTRATION — May 14, Trustees Compton Union High School Dist., 2 story, 188 x 2220 ft. school administration building, brick. To exceed $150,000. Rea & Garstang, Trust & Savings Bldg., Los Angeles, archts.

Calif., Culver City—ACADEMY—H. H. Whiteley, archt., Madison Ave., taking bids 3 story and basement, 125 x 225 ft., brick and tile academy, for Pacific Military Academy. $150,000 or more.

Calif., Los Angeles—SCHOOL—May 13, by Bd. Educ., 2 story, brick and rein.-con., 42nd St. $150,000. A. F. Rosenheim, Bway. Arcade Bldg., archt.

Calif., Sacramento—COLLEGE—May 18, by Bd. Educ., Junior college buildings, brick. $300,000. Dean & Dean, California State Life Bldg., archts.

Calif., San Francisco — SCHOOL — May 27, by Bd. Pub. Wks., fireproof school, on block bounded by 16th, 17th Sanchez and Dehon Sts. $346,000. J. Reid, Jr., City Hall, archt.

BIDS RECEIVED

Calif., Los Angeles—SCHOOL—City, general contract Roosevelt High School, incl. 3 story school building, 3 story gymnasium, and 1 story shop, rein.-con. and brick, from Salih Bros., Detwiler Bldg., $171,657.

CONTRACTS AWARDED

Mass., Boston—SCHOOL—Beaver School, Inc., 9 Brimmer Pl., 4 story and basement, brick addition, Chestnut St., to F. H. Powers, 75 Chestnut St. Archts. est. $150,000. Noted Apr. 2.

Mass., Lynn — CONVENT — St. Josephs Parish, Green St., 3 story and basement, brick and stone addition, to W. T. Dinneen, 293 Boston St. Archts. est. $150,000.

R. I., Westerly—RECTORY—Immaculate Conception Roman Catholic Church, 2 story and basement, brick and stone, to T. Morrison Co., 17 Chestnut St. Archts. est. $150,000.

N. Y., New York — CHURCH — Fort George Presbyterian Church, c/o C. W. Brazen, archt. and engr., 1133 Bway., brick and stone, plain foundation, 1521 St. Nicholas Ave., to J. B. Roberts & Co., 1170 Bway. Archts. est. $200,000.

Md., Cumberland—HIGH SCHOOL—Bd. Educ. Alleghany Co., 3 story and basement, 169 x 200 ft., rein.-con. and brick, plain foundation, to W. J. Morley, Cumberland, $285,000. Noted Apr. 23.

N. C., Salisbury—CHURCH—Lutheran Church, general contract church, to J. P. Little, Realty Bldg., Charlotte, $119,315.

Tenn., Knoxville—CHURCH—Holy Ghost Church, general contract brick and stone church, Central Ave. and Hinton St., to J. M. Dunn Constr. Co., Bway. and Depot Sts., Knoxville. Archts. est. $200,000. Noted Mar. 12.

Tenn., Memphis — CHURCH — Idlewild Presbyterian Church, W. Wellford, chn. building com., 2 story, concrete, brick, stone, terra cotta, tile and steel church, with 120 ft. tower, 35 ft.sq. at base, on 175 x 290 ft. site, Union and Evergreen Sts., to B. E. Buffaloe & Co., Memphis. Archts. est. $350,000. Noted Oct. 23.

O., Cincinnati — SCHOOL — Bd. Educ., Denton Bldg., new College Hill School, 4 story and basement, rein.-con. and brick, Cedar Ave., excavation and stone masonry work to Carl Constr. Co., 708 Lewis St., Covington, Ky., $42,602; concreting and landscape work, to Roos-Meyer-Hecht Co., Clifton Ave., $71,100; brick and carpentry work, to D. Gordon Building Co., Burnet Ave., $125,000; cut stone work, to D. Hummle Building Co., 2629 Spring Grove, $36,596; plastering, to W. C. Bunyan & Son, 917 Springfield Park, $29,300; iron and steel, to Schreiber & Son, Ivanhoe Ave., $30,800; plumbing, to H. Meines Co., 4112 Hamilton Ave., $34,504. Noted Mar. 12.

O., Cleveland — CHURCH — Nativity Blessed Virgin Mary Roman Catholic Church, V. A. Chaloupka, pastor, 9614 Aetna Rd., 1 story, 70 x 154 ft., brick, steel and concrete, Aetna Rd., to Schirmer-O'Hara Co., 1720 Euclid Ave. Archts. est. $200,000. Noted Mar. 26.

O., Euclid—SCHOOLS—Bd. Educ., J. B. Clark, clk., 1550 Chardon Rd., five 1 and 2 story, brick, steel and concrete additions, 4 schools, to W. F. Hendrick Co., 2777 East 53rd St., Cleveland, $229,109; 1 school, to C. Peterson Constr. Co., 4500 Euclid Ave., Cleveland, $95,485. Noted Apr. 30.

Ind., Terre Haute — SCHOOL and DORMITORY—Gibault Home for Boys, 2 story and basement, 100 x 120 ft., rein.-con., plain foundation, to Roehm Bros., 5th and Cherry Sts. $175,000 cost plus percentage basis.

Minn., Minneapolis—ART GALLERY—T. B. Walker, 2 Groveland Terrace, general contract 3 story and basement, 123 x 160 ft., rein.-con., brick and stone, Lyndale Ave. and Vineland Pl., to J. Leck Co., 211 South 11th St., about $200,000. Noted Nov. 27.

Mo., Kansas City—HIGH SCHOOL—Bd. Educ., North East Junior High School, 3 story and basement, 160 x 240 ft., rein.-con., brick, stone and terra cotta to Patti Constr. Co., 411 Jenkins Bldg., $332,900.

Calif., Glendora — SCHOOL — Girls Collegiate School of Glendora, c/o M. Hunt, archt., Hibernian Bldg., Los Angeles, four academic buildings consisting of study halls, library, science departments, administration and class room buildings, all hollow wall type and concrete, to H. O. Clarke, 444 South Fair Oaks Ave., Pasadena, to exceed $150,000. Noted Apr. 9.

Federal Government Work

BIDS DESIRED

Mass., Boston — Repairing Crane — May 13, by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing 40 ton dry dock crane, here.

D. C., Wash.—Lumber—May 14, by General Purch. Officer, Wash., D. C., southern yellow pine, or Douglas fir lumber and creosoted piles, etc., for Panama Canal.

Miss., Brunswick—Levee Work—May 19, by Third Mississippi River Dist., P. O. Box 404, Vicksburg, 600,000 cu.yd. levee work, here; adv. E. N.-R. May 7.

Miss., Vicksburg—Levee Work—May 18, by Third Mississippi River Dist., P. O. Box 404, 6,504,000 cu.yd. levee work; adv. E. N.-R. May 7.

Ill., Olmstead—Steel Castings—May 15, by U. S. Engineer Office, P. O. Box 72, Louisville, Ky., steel castings, etc., for Dam 53, Ohio River.

Okla., Tahlequah — School — May 21, by C. H. Burke, comr. Indian Affairs, Wash., D. C., brick addition to Sequoyah Orphan Training School, here.

Calif., Oakland — Dredging — May 23, by U. S. Engineer Office, 2,933,340 yd. dredging in Oakland Estuary, Alameda Co.

BIDS RECEIVED

Mo., St. Louis — Earthwork — Mississippi River Comn., 1311 International Life Bldg., 300,000 cu.yd. earthwork in Iowa River-Flint Creek Levee Dist. 16, Iowa, from La Crosse Dredging Co., Plymouth Bldg. Minneapolis, Minn., $0.2475 per cu.yd. Noted Apr. 2.

Ark., Russellville — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story post office, from A. Blair, St. Lawrence St., Montgomery, Ala., $38,898. Noted Apr. 2.

Tex., Galveston — Power Line — Spec. 5033 —Bureau Yards & Docks, Navy Dept., Wash., D. C., electric power line in part overhead and part underground, at Naval Radio Sta., here, from O'Connell Electric Co., 857 Hudson Ave., Rochester, $6,800.

Calif., Mare Island—Paving—Spec. 5092 —Bureau Yards & Docks, Navy Dept., Wash., D. C., asphalt wearing surface on causeway connecting Mare Island and Vallejo, here, from Associated Constr. Co., San Francisco, $12,815. Noted Apr. 9.

H. T., Pearl Harbor—Paving, etc.—Spec. 5076—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving, and runway for seaplane hangar, here, from Austin Eng. Co., 121 West 42nd St., New York City, $39,472.

CONTRACTS AWARDED

Vt., Burlington—Breakwater Repairs—U. S. Engineer Office, Room 710 Army Bldg., 39 Whitehall St., New York City, repairing breakwater, here, to L. J. Sieling, Red Bank, N. J., $41,360. Noted Mar. 19.

Wis., Milwaukee — Tug — U. S. Engineer Office, Federal Bldg., steel wheel tug, to Marine Iron & Shipbuilding Co., foot 11th Ave. W., Duluth, Minn., $61,175. Noted Apr. 30.

Wash., Puget Sound—Repairs to Pier—Spec. 5095—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to Pier 4, Navy Yard, here, to Henry & McFee, 208 Northern Life Bldg., Seattle, $35,000 (240 days).

Unclassified

PROPOSED WORK

Playground—Arlington (Boston P. O.), **Mass.**—Bd. Selectmen plans playground adjoining high school building. $100,000. Engineer not selected.

Golf Course, etc.—Lenox, Mass.—Lenox-Palm Beach Development Co., H. Cole, pres., developing about 1,000 acres for golf course and building purposes. To exceed $25,000.

Park — West Medford (br. of Boston), **Mass.**—Park Comn., Medford, plans developing and reconstructing Tufts Park, South Medford and Brooks Playstead, as public park, here. $31,000. J. R. Charnock, Medford, city engr.

Athletic Field — Worcester, Mass. — St. Johns Parochial High School, T. M. O'Leary, pastor, in charge plans reconstructing 6 acre Old Worcester Oval as athletic field. $25,000 or more. Engineer not selected.

Dock Improvements—Providence, R. I.—Plans improving dock, Fields Point, and constructing freight house. $75,000. Engineer not selected.

Land Development—Providence, R. I.—City plans improving and constructing land Douglas Ave., Grand Bway., Veazie and Stansbury Sts., for school purposes. $25,000. H. A. Barker, chn.

Harbor Improvements—Wilson, N. Y.—Tuscarora Club, S. F. Swain, dir., 25 Jewett St., Buffalo, plans improving harbor, repairing piers and dredging, here. To exceed $50,000.

Docks., Weirton, W. Va.—See Buildings—Industrial."

Grade Crossing—Garfield Heights (Cleveland P. O.) **O.**—Pennsylvania R.R. Co., Pennsylvania Sta., Pittsburgh, Pa., A. S. Shand, ch. engr., Wheeling & Lake Erie

Unclassified (Continued)

R.R., 626 Huron Rd., Cleveland, W. L. Rohbock, ch. engr., Northern Ohio Traction Co., Akron, and Bd. Comrs. Cuyahoga Co., Cleveland, F. Lander, Court House, co. engr., plan abolishing grade crossing at Bway. and Henry Sts. $600,000.

Stadium—Madison, Wis.—City Athletic Bd., D. Sullivan, chn., having plans prepared rein.-con. stadium, fieldhouse, etc. at Stevens Athletic Field. $60,000. Claude & Starck, Badger Annex, engrs. Noted Mar. 5.

Transmission Line — Iowa — Mississippi River Power Co., Keokuk, making preliminary plans high tension transmission line from Burlington to Ft. Madison. $200,000. Work will probably be done by own forces. Private plans.

Street Lighting System—Geneva, Neb.—Defeated $40,000 bonds for street lighting system. Noted Mar. 12.

Park Improvements — Moberly, Mo. — Election May 12, $25,000 bonds for park improvements.

Street Lighting System—St. Louis, Mo.—J. E. Hooke, city dir., City Hall, soon takes bids rein.-con. lighting standards with glassware, wiring, etc., for various streets and parks. $40,000.

Storage Tanks, etc.—Taft, Tex.—Pierce Petroleum Co., 305 South Medina St., San Antonio, soon takes bids several 50,000 gal. capacity and over steel storage tanks, pumping unit equipment, etc., and 5 mi. pipe connecting with tanks. Private plans. $160,000.

Transmission Line — Oklahoma — Consumers Light & Power Co., Ardmore, making preliminary plans 28 mi. 33,000 volt transmission line from Ardmore to Modell. $45,000. W. H. Allen, Ardmore, engr.

Transmission Line, etc. — Oklahoma — Southwest Light & Power Co., Continental Bldg., Oklahoma City, plans 32 mi. 33,000 volt transmission line from Grandfield to Cache and distribution system in Garfield. $45,000. Franchise election May 28. E. R. Ernsberger, Continental Bldg., Oklahoma City, engr.

Gas Distribution System—Mangum, Okla.—Voted $85,000 bonds, for gas supply from field at Sayre, 73,000 ft. 6 in. steel pipe, also gas distribution system and regulator station, here. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs. Noted Mar. 19.

Gas System — Sapulpa, Okla. — Election soon gas franchise for natural gas system. $60,000 or more. Address Mayor.

Breakwater — Long Beach, Calif. — Soon lets contract for 7,000 ft. rubble mound breakwater and 6,900 ft. bulkheads, approximately 1,600,000 tons stone. E. N. Johnston, consult. engr.

Park Improvements—Monterey, Calif.—Rescinded action calling $100,000 bond issue purchasing site and laying out public park. Noted Apr. 9.

Harbor Development—Byng Inlet, Ont.—Dept. Pub. Wks., Parliament Bldgs., Ottawa, plans dredging and timber work in harbor, here. $38,000. K. M. Cameron, Hunter Bldg., Ottawa, ch. engr.

Telephone System—Hamilton, Ont.—Bell Telephone Co., F. D. Laurie, mgr., plans improving and extending system. $117,000. Private plans.

Wharf—Pelee Island, Ont.—Dept. Pub. Wks., Parliament Bldgs. Ottawa, plans extending and repairing wharf, here. $28,000. K. M. Cameron, Hunter Bldg., Ottawa, ch. engr.

Telephone Improvements—Port Colborne, Ont.—Bell Telephone Co., A. C. Price, mgr., plans central energy system and new cables. $50,000.

Transmission Lines, Towers, etc. — Toronto, Ont.—Harbor Comrs., Harbor Bldg., plans moving hydro power line at Sunnyside to another location, new steel towers, concrete footings, cables, insulators, etc. $50,000. J. R. Wainwright, Harbor Bldg., engr.

BIDS DESIRED

Steam Heating System—New York, N. Y.—May 14, by E. J. O'Malley comr. Pub. Markets, Municipal Bldg., steam heating system in wholesale market, storage building and power house for Terminal Market, Exterior and East 151st Sts.

Subway—New York, N. Y.—May 15 by Bd. Transportation, 49 Lafayette St., Washington Heights subway in Central Park West between 78th and 88th Sts.

Stadium—Phila., Pa.—May 12, by Dept. Pub. Wks., City Hall, 174 x 1,950 ft., rein.-con. and brick stadium. $2,000,000. Simon & Simon, 249 South Juniper St., engrs. Noted Apr. 9.

Sea Wall—Gulfport, Miss.—May 27, by Bd. Supervs. Harrison Co., 14 mi. sea wall along gulf coast. $2,000,000. A. M. Shaw, 1312 Hibernia Bank Bldg., New Orleans, La., consult. engr. Noted Feb. 12.

Electric Light System—Church Point, La.—May 20, by Bd. Aldermen and Mayor, electric light system and ice plant. Swanson-McGraw, United Fruit Bldg., New Orleans, consult. engrs.

Swimming Pool—Donna, Tex.—Val Verde Country Club, Donna, taking bids rein.-con. swimming pool, near here. $25,000.

Park Improvements — Houston, Tex. — May 15, by J. C. McVea, city engr., park improvements for city. $100,000. O. F. Holcombe, mayor. Noted Mar. 12

Transmission Line—Oklahoma—May 20, by J. D. Bonford, engr. of Elk City, 35 mi. 13,200 volt transmission line from Leedy to Elk City and distribution system at Leedy. $25,000. Noted Feb. 19.

Subway—Toronto, Ont.—May 9, by B. Ripley, dist. engr. Canadian Pacific Ry., New Union Sta., subway under tracks at Royce Ave., here. $900,000.

Grain Elevator—Prince Rupert, B. C.—May 18, by F. C. T. O'Hara, deputy minister of Trade & Commerce, Ottawa, rein.-con. superstructure of 500,000 bu. elevator, here. $500,000. C. D. Howe & Co., Port Arthur, engrs.

BIDS RECEIVED

Park—Lowell, Mass.—City, J. W. Kerman, Park Comn., developing Shedd Park into public playground, from R. A. Doyle, 32 Caldwell Crescent, Lynn, $63,900. Noted Apr. 9.

Fill—Phila., Pa.—G. W. Biles, dir. Pub. Wks., Apr. 28, 400,000 cu.yd. fill for municipal stadium east of Broad St. and south of Pattison Ave., from Keystone State Constr. Co., Franklin Bank Bldg., $248,000; 30,000 cu.yd., from Lewis & Slavin, 234 South 44th St., $29,400. Noted Apr. 23.

Guard Rails, etc. — Logan, Ia. — See "Streets and Roads."

Street Lighting System—St. Paul, Minn.—H. W. Austin, city purch. agt., Apr. 14, from Northwestern Electric Equipment Co., 174 East 6th St., single light standards with copper and bronze lanterns, etc., eighty-four 13 ft., on Portland Ave. $74.34, nineteen 13 ft. on Central Park Pl. $74.34, fifty-five 15 ft. on 5th St. $104.25. Noted Apr. 9.

CONTRACTS AWARDED

Granite Curbing — Chicopee, Mass. — E. Bourbeau, supt. Streets, granite curbing which may be ordered from Apr. 15, 1925, to Apr. 15, 1926, to S. P. Palmer & Sons, Graniteville, 6 in. straight at $1.10 per ft., 4 in. straight $0.93 per ft.

Culvert — Dorchester (Boston P. O.), **Mass.**—Metropolitan Dist. Comn. 1 Ashburton Pl., Boston, rein.-con. culvert, at Pattens Cove, here, to Bay State Dredging & Contg. Co., 62 Condor St., East Boston, $40,225. Noted Apr. 9.

Pier Repairs—South Boston (Boston P. O.), Mass.—Park Dept., 33 Beacon St., Boston, J. B. Shea, chn., pier repairs, Marine Park, here, to Guiney & Hanson Constr. Co., 61 Court St., Boston. Engrs. est. $35,000.

Field House—Williamstown, Mass.—Williams College, 2 story and basement, 40 x 140 ft., rein.-con., brick and timber field house, to Holt-Fairchild Co., 7 Water St., Boston.

Elimination Grade Crossing—Middletown, Conn.—City State Hy. Dept., Hartford, and New York, New Haven & Hartford R.R., Grand Central Terminal, New York City, elimination of grade crossing, incl. 800 cu.yd. excav., rein.-con. abutments, 60 ft. span supporting present railroad crossing, to Lathrop & Shea, 185 Church St., New Haven, $116,072.

Culverts and Head Walls—Tennessee—See "Streets and Roads."

Grain Elevator—Cincinnati, O.—Early & Daniel Co., 403 Carew Bldg., 1,000,000 bu. grain elevator, 16 concrete silos each 112 ft. high, 30 ft. diam., to Stone Eng. Co., St. Louis, Mo., $350,000.

Wall—Peru, Ind.—Bd. Comrs. Peru Flood Control Dist., rein.-con. wall, four 12 ft. sluice ways etc., to Minnix Clark, Flora, $54,000. Noted Apr. 2.

Transmission Line — Illinois — Peoples Power Co., Moline, will build 18,000 volt transmission line from East Moline to Cordova, by day labor. $25,000. Private plans.

Gas Line—Kansas—Empire Gas & Fuel Co., 56 mi. 10- to 16-in. line from Blyworth to Wichita, to Connor & Son, 814 New York Life Bldg., Kansas City, Mo. Engrs. est. $843,000.

Transmission Line — Oklahoma — Oklahoma Gas & Electric Co., 112 North Bway., Oklahoma City, will build 22 mi. 33,000 volt transmission line from Sayre to Elk City, by day labor. $45,000. Byllesby Eng. Co., 231 La Salle St., Chicago, engrs.

Transmission Line — Oklahoma — Oklahoma Gas & Electric Co., 112 North Bway., Oklahoma City, will build 10 mi. 13,200 volt transmission line from Berwin to Dougherty, and distribution system at Berwin, by day labor. $30,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, engrs.

Fish Hatchery—Heavener, Okla.—State Bd. Affairs, G. W. Hines, game warden, new fish hatchery, consisting of ponds, pipes, etc., on Black Fork Creek, near here, to J. S. Terry, Poteau, $36,721. Engrs. est. $40,000. Noted Mar. 12.

Arena—Los Angeles, Calif.—T. Kennedy, rein.-con. and hollow tile (open air) arena, approximately 25,000 seating capacity, Vermont St., to Sound Constr. Co., 614 Spreckles Bldg., San Diego.

Materials

PROPOSED WORK

Gravel—Tracy, Calif.—City plans to purchase 300 tons gravel for filter beds of septic tank. G. L. Freichs, city clk.

BIDS DESIRED

Slag, etc.—Cleveland, O.—May 13, by Comrs. Cuyahoga Co., L. Simon, clk., 700 cars slag; 1,200 ton Kold Patch, $19,000; 900 tons rock asphalt, $15,300; 600 tons slag, $1,350, 5,000 gal. K. P. juice $1,500; 5,000 gal. Kolmend $1,250; 15,000 gal. Surfacrete, $2,550; 200 tons of 1.2 in. slag, $360; and 200 tons sand, $320.

Structural Steel—Minneapolis, Minn.—May 11, by F. S. Gram, city purch. agt., structural steel for new filtration plant, now under construction. $20,000. N. W. Elsberg, city engr.

Cement—Dallas, Tex.—C. E. Gross, aud. Dallas Co., taking bids cement to be used for 1 year. $7,000.

Rails, etc.—Melbourne, Australia—June 3, by Secretary Victorian Government R.R., 11,610 60 lb. rails, and 12,000 pairs fish plates, 12 mi. 2,200 volt 2 core, lead sheathed, wire armoured cable, and 5½ mi. dry core telephone cable.

BIDS RECEIVED

Steam Cinders, etc.—Brooklyn, N. Y.—J. A. Guider, pres. Boro Hall, Apr. 29, 10,000 cu.yd. steam cinders, from W. P. Rourke, 259 77th St., $10,000; also 40,000 gal. gasoline, from Tidewater Oil Sales Corp., 11 Bway., New York City, $7,200. Noted Apr. 23.

Oil—Toms River, N. J.—Bd. Freeholders Ocean Co., 185,000 gal. oil from Asphalt Service Surface Co., New Brunswick, $0.13 per gal.

Road Oil—Green Bay, Wis.—W. L. Kerr, city clk., Apr. 16, 30,000 gal. road oil having 50% to 60% asphaltic content, from Barkhausen Oil Co., Mather St., at $0.059 per gal. Noted Apr. 23.

CONTRACTS AWARDED

Patching, etc. — Boston, Mass. — Supply Dept., 500 tons Taric patching compound, to Independent Coal Tar Co., 88 Broad St., $34.98 per ton; 500 tons emulsified asphalt for cold patching, to Barber Asphalt Co., 109 Cummings St. Roxbury, at $42.35 per ton; 1,200 tons 48 in. B pipe, to Warren Pipe & Fdry. Co., 201 Devonshire St., at $54.90 per ton; furnishing and applying 350,000 gal. 45% asphaltic road oil, to Alden Speare's Sons Co., 156 6th St., Cambridge, at $0.077 per gal. Noted Apr. 16.

Road Materials — Trenton, N. J. — State Hy. Dept., to T. Tobish, Mechanic Bldg., 70,615 gal. asphalt $7,238, 119,723 gal. Grade B or UB tar, $10,916, 38,944 gal. Grade B tar, $3,894, 8,888 gal. Grade U-3 tar, $1,244; to Headley Good Roads Co., Franklin Trust Bldg., Phila., Pa., 18,858 gal. asphalt $1,948, 68,300 gal. asphalt cement $12,330; to Dosch King Co., Montclair, 51,755 gal. Grade B tar, 5,177; to Duquesne Slag Products Co., Dover, 2,154 tons slag $2,267; to Phila. Slag Co., Pennsylvania Bldg., Phila., 2,580 tons slag $2,838; to Natl. Slag Co., Allentown, Pa., 1,995 tons slag $1,995; to Asphalt Service Co., New Brunswick, 33,299 gal. tar $3,330; to Barber Asphalt Co., Land Title Bldg., Phila., Pa., 355 gal. asphalt cement $55; to Alemite Refining Co., 1780 Bway., New York City, 600 gal. asphalt cement $721; to Standard Oil Co., 26 Bway., New York City, 50,550 gal. cement $5,722; to Union Paving Co., 30th and Locust Sts., Phila., Pa., 47 tons asphalt, SA $26,534, 360 tons FABC $8,280; to Standard Bitulithic Co., 50 Church St., New York City, 30 tons asphalt SA in place $8,245; to New Jersey Amesite Co., 6,942 tons Type A asphalt $69,670.

Steel—Creighton, Pa.—See "Buildings Industrial," under Bids Desired.

Pipe—Baltimore, Md.—Bd. Awards, 4,900 lin.ft. 24 in., 1,700 lin.ft. 27 in., 1,800 lin.ft. 30 in., 1,900 lin.ft. 33 in., 3,000 lin.ft. 36 in., 3,750 lin.ft. 42 in., 1,000 lin.ft. 48 in. 700 lin.ft. 54 in., and 300 lin.ft. 60 in. rein.-con. pipe, Contr 54, to Lock Joint Pipe Co., 9 Rutledge Ave., Ampere, N. J., $46,925. Noted Apr. 30.

CONSTRUCTION NEWS

Engineering News-Record, May 14, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Levee, Texas, State Reclamation Dept. plans 150 mi. levee, $3,000,000.

Club, Chicago, Ill., Chicago Community Club having sketches made, $3,000,000.

Irrigation, Texas, Medina Irrigation Project 1 voted $2,500,000 bonds for project.

Bridges, Chicago, Ill., Sanitary Dist. of Chicago plans 2 bridges, $2,200,000 each.

Church and Rectory, New York, N. Y., Church of Heavenly Rest had plans prepared, $2,000,000.

Cement plant, Dawson, Okla., Tulsa Cement Block Co. plans cement plant, $1,500,000.

Apartment, New York, N. Y., Courtland Bishop Corp. having plans prepared, $1,500,000.

Apartment Hotel, Drexel Hill, Pa., plans being prepared, $1,250,000.

Hotel, Los Angeles Calif., Sun Realty Co. having plans prepared, $1,000,000.

Bridge, North Carolina, State Hy. Comm. plans steel bridge, $1,000,000.

Apartment, Springfield, Mass., W. Lay, Inc., plans apartment, $1,000,000.

Plow Factory, Dallas, Tex., Atlanta Plow Factory plans factory, $1,000,000.

Bids Wanted On Big Jobs

College, Chicago, Ill., J. G. Gamble, New York City, taking bids for group of buildings for Northwestern University, $10,000,000.

Office and theatre, San Antonio, Tex., J. Oppenheimer takes bids after May 16, $1,500,000.

Bank and office, Los Angeles, Calif., Pacific Nat. Bank takes bids, $1,500,000.

Apartment, New York, N. Y., Garment Workers Union takes bids about June 1, $1,500,000.

Paving, Youngstown, O., Bd. Control soon takes bids on paving, $1,280,000.

Hospital Annex, Detroit, Mich., Carey & Esselstyn takes bids May 16, $1,000,000.

Large Contracts Let During Week

Office, New York, N. Y., Parlex Building Corp. will build 35 story building, $18,000,000.

Office, Brooklyn, N. Y., Bricken Constr. Co. will build 26 story building, $5,500,000.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Pa., Pittsburgh—Baltimore & Ohio R.R., Baltimore and Charles Sts. Baltimore, Md., plans 2 story, brick and steel water softening plant, 36th St., $20,000. P. Didier Maloney Bldg., Pittsburgh and H. A. Lane, B. & O. Bldg., Baltimore Md., engrs.

O., Mansfield—Plans 2,100 lin.ft. 4 in. c.i. mains in Arlington Spring Mill, Daisy and Aten Sts. H. C. Lynch, dir. Pub. Serv.-Safety.

Mich., Iron Mountain—H. Lindholm, city clk. soon takes bids 10,000 lin.ft. c.i. mains in 15 streets. $18,000-$20,000.

Wis., Beloit — Making plans extending c.i. mains in 19 streets. To exceed $15,000. G. E. Heebink, City Hall, engr.

Mo., La Plata—Election soon $100,000 bonds, for water system. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, engrs.

Tex., Dilley—Terrell, Bartlett Engineers, Calcasieu Bldg., San Antonio, take bids about May 15, pumping plant, distribution system, tank and tower, well, electric generating and ice plant, etc., here, for City, J. F. Moffett, secy. $30,000. Noted Apr. 16.

Tex., Flatonia—See "Sewers."

Tex., Gonzalas — Gonzalas Water Co. plans extending mains, 81 fire hydrants, filtration and meter system, etc. $35,000. Address mayor.

Tex., Grand Prairie—Making plans new well, additional pumping equipment and 6 in. main extensions. $15,000. Kock & Fowler, 606 Central Bank Bldg., Dallas, engrs.

Tex., Littlefield—Voted $75,000 bonds for waterworks improvements. B. L. Coggill, mayor.

Okla., Billings—Voted $20,000 bonds, for new well, pump and extensions to the distribution system. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Okla., Moore—Making preliminary plans new waterworks, incl. well, tank, mains and motor driven pump. $20,000. Engineer not selected. A. A. Moore, city clk.

Okla., Norman—Election May 19, $100,000 bonds, waterworks. F. Cobb, City Hall, engr.

N. M., Silver City—Voted $300,000 bonds, water system, incl. dam or reservoir, pumping equipment, etc. Engineer not selected.

Ore., Eugene—Making plans and takes bids about July 1, 6 mi. pipe line, head works on McKenzie River, 2 reservoirs, probably electrically driven pumping plant, etc. $600,000 bonds voted. Address C. A. McClain, supt. Water Dept.

Calif., Alhambra—Plans election to vote $150,000 bonds to finance extension to water system.

Calif., Compton — Plans mains, valves, hydrants, etc. in Bennett, Temple Sts., etc. $25,000 or more.

Calif., Hemet—Rejected proposal to issue $120,000 bonds, water-works improvements. Noted Mar. 26.

Calif., Inglewood — City, O. M. Duelke, clk., plans to purchase 1 deep well turbine centrifugal pump of enclosed line shaft, 1,125 g.p.m. capacity, against head 165 ft., operating at approximately 950 to 975 r.p.m., with 440 volt electric motor.

Calif., Newport Beach—Making surveys enlarging and reconstructing waterworks system, incl. 3 m.g. reservoir. $225,000. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Calif., San Rafael — Marin Municipal Water Dist. defeated $1,500,000 bond issue. Noted Aug. 14.

BIDS DESIRED

Massachusetts—May 21, by Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, furnishing and laying 3,000 lin. ft. and laying 1,440 lin.ft. 48 in. c.i. mains in Somerville and Medford. $50,000 bonds. J. R. Rablin, 1 Ashburton Pl., Boston, engr.

Mass., Lawrence — June 1, by P. F. McNulty, dir. Engineering, City Hall, 108 x 332 ft. slow sand filter and appurtenances. Morris Knowles, Inc., 507 Westinghouse Bldg., Pittsburgh, Pa., engrs.; adv. E. N.-R. May 14.

N. Y., Brooklyn—May 22, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Ave. I, 9th and Hegeman Aves., 53rd and East 93rd Sts., here.

N. Y., Long Island City—May 19, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 43rd and 76th Rds., Constantia, Columbia, Luther and Pettit Places, 32nd, 33rd, 59th, 77th, East Williston, 83rd, 86th, 91st, Fosdick, Lafayette, Metropolitan, Mt. Olivet and 58th Aves., 246th, 247th, 257th, 258th, 259th, 260th, 261st, 262nd, 263rd, Moore, Meade, 87th, 148th, 155th, 160th, 161st, 162nd and 164th Sts., here.

N. Y., Long Island City—May 20, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Queens Blvd., here.

N. Y., Mt. Pleasant—June 1, at office F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, White Plains, piping in pipe tunnels at Grasslands Hospital, here. J. F. Musselman, 101 Park Ave., New York City, consult. engr.; adv. E. N.-R. May 14.

Md., Baltimore—May 20, by Bd. Awards, copper pipe and brass service pipe fittings to Water Dept. V. B. Siems, City Hall, water engr.

Md., Towson—June 1, by Comrs. Baltimore Co., elevated steel water tank and steel tower. A. E. Walden, ch. engr.; adv. E. N.-R. May 14.

Fla., Okeechobee—June 1, by Mayor and City Council, H. H. DeYarman, pres., water extension improvements. F. E. Lawrence, Okeechobee, engr.; adv. E. N.-R. May 14.

O., Brooklyn Heights (Cleveland P. O.)—See "Sewers."

O., Cleveland—May 20, by Comrs. Cuyahoga Co., 6,300 ft. 6 and 12 in. c.i. mains in Lee Rd. and Lee-Harvard subdivision, Impvt. 552. To exceed $25,000. F. R. Williams, Court House, engr.

Wis., Sturtevant — May 20, by Village Clk., 12,000 ft. 6 in. and 3,000 ft. 8 in. Class "C" c.i. mains in various streets. Separate bids on furnishing above pipe. W. F. Reichardt, North Main St., Wauwatosa, engr.

Tex., Brownwood—City, c/o C. McIntosh, secy., taking bids concrete reservoir and aerator at pumping station. $25,000. Engineer not announced.

Ont., Islington—May 18, by N. MacNicol, engr. Etobicoke Twp., 2,340 lin.ft. 8 in. c.i. mains in Area 10, and 10,670 lin.ft. 6 in. c.i. mains in Area 11.

Ont., Woodstock—May 15, by J. G. Archibald, mgr. Pub. Utilities Comn., 7,420 lin. ft. 18 in. wood pipe mostly through swamp. $28,000. F. J. Ure & Son, Woodstock, engrs. Noted Apr. 9.

BIDS RECEIVED

O., Cleveland—Cuyahoga Co., 7,500 ft. 12 in. c.i. mains in Wallings Rd., Impvt. 86, from E. Cesa, 2462 Baldwin Rd., $37,463. Noted Apr. 23.

Ill., Hillsboro—O. M. Hampton, city clk., Apr. 27, 31,000 ft. 4- to 8-in. c.i. pipe, hydrants, valves, etc., from F. M. Foote, Jacksonville, $44,747. Engrs. est. $59,911. Noted Apr. 30.

Minn., Minneapolis—F. S. Gram, city purch. agt., five thousand ⅝-in. American water meters from Crane Co., 400 3rd Ave. at $7.95 each.

CONTRACTS AWARDED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Autumn, Bedford Aves., etc. to Wataga Contg. Co., 308 Lenox Ave., New York City, $27,580. Noted Apr. 30.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 9th Ave., 53rd St., etc. to Wataga Contg. Co., 308 Lenox Ave., New York City, $62,444. Noted May 7.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Westchester, Esplanades, Allerton, Crosby Aves., etc., to Melrose Constr. Co., 103 East 125th St. $7,300. Noted May 7.

Waterworks (Continued)

Pa., Neville Island (mail McKees Rocks) —Ohio Valley Water Co., 523 Lincoln Ave., Bellevue, general contract 1 story, 34 x 62 ft. water softening plant and steel tank, etc., to Pitt Constr. Co., Fulton Bldg. Engrs. est. $80,000. Noted Mar. 12.

Pa., Phila.—Dept. Pub. Wks., Bureau Water, Contrs. 747 and 748, to J. J. McHugh, 1617 Race St., $30,107 and $76,192 respectively; Contr. 753, to C. L. Allison Co., 1611 Sansom St., $902; Contr. 755, to Dravo Equipment Co., 2200 Arch St., $1,166; Contr. 756, U. S. Cast Iron Pipe & Fdry. Co., Burlington, N. J., $21,260. Grand Total, $129,627. Noted May 7.

N. C., Wrightsville Beach (Sea Gate P. O.)—Town Bd. Comm., A. H. Northrop, city clk., 124 Princess St., Wilmington, steel tank and tower, here, to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa. Noted Apr. 23.

S. C., Spartanburg—Commissioners Pub. Wks., to A. Phelps & Sons, Knoxville, Ia.; dam, penstock and power house, $399,583; to Tucker & Laxton, Inc., Realty Bldg., Charlotte, N. C., filter plant and coagulating basin $244,600, also laying pipe line from filter plant to storage reservoir near Boiling Springs; to Rome Contg. Co., Rome, Ga., reservoir, $68,600. Noted Mar. 5.

O., Cleveland—City, North Raw Water Main at Kirkland Pumping Station, 1,575 ft. 48 in. lock bar steel pipe, to D. Lowensohn, 8810 Woodland Ave., $83,473. Noted Apr. 9.

O., Indian Hill (mail Cincinnati) — Camargo Realty Co., 35,625 ft. 4- to 8-in. c.i. mains and 50,000 gal. capacity reservoir in water supply line, to Crumley, Jones & Crumley, 217 Hazen Bldg., Cincinnati, $67,427. Engrs. est. $75,040. Noted May 7.

Mich., Grand Rapids—See "Sewers."

Ill., Carbondale — Waterworks and distribution system, incl. tank on tower, filtration plant, mains, etc., to Hamilton-Hoffman Constr. Co., Carbondale, $374,000. Engrs. est. $375,000. Noted Apr. 16.

Ill., Charleston — Rebuilding waterworks pumping plant, incl. engines, pumps, etc., recently destroyed by fire, to Fairbanks-Morse & Co., Beloit, Wis. Engr. est. $100,000.

Wis., Kewaunee—J. W. Cain, city clk. 6 and 8 in. mains in 16 blocks, and 8 in. sewers in 15 blocks various streets, to W. O. Bahr, 1201 Franklin St., Manitowoc, $25,241.

Minn., Minneapolis—F. S. Gram, city purch. agt., steel pipe and fittings for filter plant (now under construction), 820 lin.ft. 54 in. $\frac{1}{2}$ in. thick and 892 lin.ft. 54 in. $\frac{7}{16}$ in. thick riveted steel, 4,498 lin.ft. 48 x $\frac{3}{8}$ in. or 50 x $\frac{3}{8}$ in. lock bar steel pipe, to Biggs Boiler Wks., Bank and Williams Sts., Akron, O., $85,000. Noted May 7.

Minn., Winona—Bd. Municipal Wks., City Hall, Contr. B, pumping station, to Sontag & Murtinger, Winona, $36,197; Contr. C, rein.-con. reservoir, to A. Larson & Co., 418½ South Barstow St., Eau Claire, Wis., $54,800; Contr. D, c.i. pipe and fittings, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, Ill., $3,632; Contr. E, valves and sluice gates, to Ludlow Valve Mfg. Co., 209 South La Salle Ave., Chicago, Ill., $2,039; Contr. F, air compressors and air lift pump plant, to R. B. Whitacre & Co., 205 South Robert St., St. Paul, $26,755. Grand total $123,423. Noted Mar. 19.

Tex., Dallas—City, c/o M. G. Jones, secy., 75 fire hydrants, to Eddy Valve Co., 1315 Santa Fe Bldg., $5,424. Engrs. est. $6,000. Noted May 7.

Tex., Port Lavaca—Waterworks improvements, incl. mains, pumping equipment, casing, etc., to Elder-Walker Co., Houston Bldg., San Antonio, $63,000. Noted Apr. 17.

Okla., Tonkawa — For 10 air lift type wells, 2 compressors, 2 motors, 250,000 gal. settling basin and pump house, to Wieland Constr. Co., 1316 East 12th St., Oklahoma City, $54,700. Noted Mar. 26.

Ore., Portland—To Peerless Pacific Co., 2nd and Stark Sts., thirty thousand ¾ in. and one thousand 1 in. inverted key curb cocks (Mueller E-551 or equal) one thousand ¾ in. H pattern curb cocks (Mueller E-673 or equal) five thousand ¾ in. lead flange corporation cocks (Mueller E-102 or equal) and five thousand ¾ in. lead to ¾ in. iron pipe lead flange couplings (Mueller E-166 or equal) for Water Dept. $28,080.

Ore., Portland — City Purchasing Agent, 27,000 water meters, etc., to Oregon Gravel Co., Portland $31,590; twenty-two ¾ x ¾ in. and four thousand ¾ x ¾ in. water meters, to Gannon Meter Co., Seattle, Wash., $151,800 and $41,000 respectively; one thousand 1 x 1 in. water meters, to Neptune Meter Co., Seattle, Wash., $31,000. Grand total $255,390.

Ont., Toronto—York Twp., 40 Jarvis St., to Natl. Cast Iron Corp., foot Cherry St., 1,500 lengths 6 in. c.i. pipe $13.20 per length, and 200 lengths 12-in. pipe $34; to J. T. Hepburn Co., 18 Van Horne St., 70 hydrants $66.45 each; to Drummond McCall & Co., 373 Front St. E., fifty 6-in. valves $26.25 each; to Dominion Wheel & Foundries Co., 131 Eastern Ave., 70 covers $8.15 to $10.25 each, special castings $205,128; to Mueller Mfg. Co., Sarnia, ½-in. main cocks $0.64, ½-in. stop cocks $1.13, ½-in. corporation unions $0.50, service boxes $1.70 each; to Canada Metal Co., Ltd., 39 Fraser Ave., lead pipe $0.125 per lb., pig lead $0.09.

Sewers

PROPOSED WORK

Mass., Boston—Plans sewerage works in Cambridge Court 10 in. to 20 in. earthern pipe, 1 ft. 6 in. x 2 ft. 8 in. concrete, 12 in. earthern surface drain, 1,870 ft. minor drain, etc. $109,276. J. A. Rourke, comr. Pub. Wks. Private plans.

Mass., West Roxbury (Boston P. O.)—Dept. Pub. Wks., Boston, plans sewers in Greaton Rd. Church, Landseer, LaGrange, Cornell and Winton Sts., here. $28,200. J. A. Rourke, comr.

N. J., West Caldwell (mail Caldwell)—Essex Co. (Newark) plans 3,000 ft. sewer in Westville Ave. $25,000, and 1,550 ft. sewer in Bradford Ave., Cedar Grove $10,000. W. A. Stickel, Newark, co. engr.

O., East Liverpool—Soon takes bids, sanitary sewers in Odgen, Sarah, Garfield, Laura and Riley Sts. $50,000. J. A. George, East Liverpool, engr.

O., Fairview—Making plans storm and sanitary sewers in 14 various streets. $250,000. E. H. Arnold, Rocky River, engr.

Mich., Dearborn—C. Kandt, Dearborn, made plans 4,883 ft. sewers in Dearborn-Warren Subdivision, incl. 530 ft. 12 in., 702 ft. 15 in., 853 ft. 18 in., 1,600 ft. 24 in. and 1,168 ft. 30 in. vitr. tile pipe. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Mich., Detroit—Made plans 1,974 ft. 15- to 18-in. Lateral Sewer 4316, 2,766 ft. 12- to 20-in. Lateral Sewer 4345, 485 ft. 10 in. Lateral Sewer 4349, 1,415 ft. 12- to 18-in. Lateral Sewer 4350, 489 ft. 12- to 15-in. Lateral 4352, 2,700 ft. 12- to 15-in. Lateral 4353, 7,372 ft. 12- to 24-in. crock and 411 ft. 3 ft. 6 in. and 318 ft. 3 ft. cylinder in Lateral 4355, 364 ft. 12 in. Lateral 4356, 4,102 ft. 12- to 24-in. Lateral 4357, 4,695 ft. 12- to 24-in. Lateral 4359, and 1,224 ft. 12- to 15-in. Lateral 4360. G. Jerome, city engr.

Minn., Bloomington—Rose & Harris, engrs., Natl. Life Bldg., Minneapolis, rejected bids, Apr. 20, 2,360 ft. 15- to 21-in. sewerage system, for Minneapolis Masonic Home Assn. $25,000. Noted Apr. 16.

Mo., La Plata—Election soon $50,000 bonds, for sewarage system. W. B. Rollins, 521 Railway Exch. Bldg., Kansas City, engrs.

Tex., Dallas—Voted $300,000 bonds, sanitary sewers in various streets. A. E. Kingsley, city engr. Noted Mar. 19.

Tex. Dallas—Voted $100,000 bonds for storm sewers in various streets. E. A. Kingsley, city engr. Noted Mar. 5.

Tex., Flatonia — Voted $70,000 bonds, sewer extensions and waterworks improvements. Municipal Eng. Co., 602 Praetorian Bldg., Dallas, consult. engrs. Noted Apr. 30.

Tex., Houston—Voted $250,000 bonds for sanitary sewers and $350,000 bonds for storm sewers in various streets. J. V. McVey, city engr. Noted Mar. 12.

Tex., Park Place (mail Houston)—See "Streets and Roads."

Tex., Yorktown—Plans complete sewerage system. $50,000. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs.

Okla., Billings—Voted $35,000 bonds, for 5 mi. sanitary sewerage system, outfall sewers and disposal plant, Imhoff tank, etc. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Colo., Greeley—Voted $140,000 bonds, for sewer and paving construction.

Wash., Hoquiam—Takes bids about May 25, sanitary sewerage system. $60,000.

Calif., Alhambra—Plans election $135,000 bonds for sewer extensions.

Calif., Long Beach—Making plans storm drain in area bounded by Pacific Electric Ry., Newport Beach Line rightway and the ocean, and California and Redondo Aves. To exceed $500,000. C. F. Smith, 504 City Hall, engr.

Calif., Los Angeles — Made plans Los Feliz Blvd. and Glen Eden St. Storm Drain, 2,200 ft., 6 and 63 in. circular concrete storm drains, 480 ft. 3 x 10 ft. rein.-con. box sewer, 6,600 22- to 45-in. rein.-con. 3,000 ft., 12- to 21-in. cement pipe; H. A. Van Norman, city engr. L. W. Armstrong, engr. for structures and storm drains cement, cast iron and vitr. sewers in Warwick Ave. between Navarro and Martin Sts., $25,000 or more.

Calif., Ontario—Making preliminary plans drainage project, etc., in Mountain and Magnolia Aves., $150,000. O. S. Roen, city supt.

Calif., Santa Rosa—Making preliminary plans activated sewage disposal plant $50,000 or more. H. E. Elrod, Mills-Fraser Bldg., Santa Monica, engr.

BIDS DESIRED

Mass., Boston—May 20, by Dept. Pub. Wks., City Hall, Boston, sewerage works for Brook Sewer in private land, Lawrence and Blue Hill Aves., here. $37,500 bonds. J. A. Rourke, comr.

N. Y., Brooklyn — May 20, by J. A. Guider, boro pres., Boro Hall, sewers in Clarkson and Utica Aves., 51st and 52nd Sts.; storm and sanitary sewers in East 5th and 29th Sts.

N. Y., Lackawanna—June 5, at office N. A. Hegedus, city clk., City Hall, sewage disposal plant and pumping station. Frederick K. Wing Co., 1314 Prudential Bldg., Buffalo, engrs.; adv. E. N.-R. May 14.

N. J., Little Falls — June 1, by R. S. Briggs, clk. Twp. Com., Municipal Bldg., 16,900 ft. 6- to 12-in vitr. tile sewers, 3,400 ft. c.i. force main and pumping station.

Pa., Phila.—May 19, by Director Pub. Wks., Bureau Engineering, main sewer in Tioga St. 1,750, Erie Ave. $73,000; branch sewers in Wooddale Rd., American, R. Conlyn, Cottman, 8th, Franklin, 15th Mascher, Musgrave, Robat, Sanger, Sedgwick, 20th, Fayette, Marshall and 6th Sts., Cottman, 18th, Girard, 79th, Woodbine, Wynnfield, 75th and Spencer Aves., Washington and Walnut Lanes.

Md., Salisbury — June 16, by Water & Sewer Comn., sanitary sewers, Contr. 6. F. H. Dryden, ch. engr.; adv. E. N.-R. May 14.

D. C., Wash.—May 28, by Dist. Comrs., 7,705 lin.ft. 10 in. to 7 ft. sewers; adv. E. N.-R. May 14.

O., Brooklyn Heights (Cleveland P. O.)—May 18, by Village, 1,600 ft. 12- to 20-in. vitr. tile sewers and 1,600 ft. 6 in. c.i. watermains in West 14th St. W. H. Evers Eng. Co., Engineers Bldg., Cleveland, engr.

Minn., Isanti—May 26 (extended date), by G. H. Chalmers, city clk., sanitary sewers in various streets, Schedule 1, 1,010 lin.ft. 8 in., 620 ft. 10 in., 5,150 ft. 12 in. pipe, 9 standard and 13 special manholes, etc.; Schedule 2, 9,350 lin.ft. 8 in., 2,400 ft. 10 in. 5,150 ft. 12 in. pipe, 37 standard and 9 special manholes, etc. $25,000 upward. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs. Noted Apr. 30.

Minn., Winona—May 25, by G. W. Hoffman, city clk., 7,208 ft. 12- to 42-in. concrete storm sewers, etc., in Main, Harriet and Kansas Sts. $37,915. E. E. Chadwick, city engr.

Tex., San Antonio—Taking bids 6 in. sewer through City Block 3087. $28,000. I. Ewig, city engr.

Calif., Beverly Hills — City Trustees taking bids sewers incl. 165 ft. 24 in. and 1,505 ft. 21 in. vitr. or cement outfall connections with city of Los Angeles, Salisbury, Bradshaw & Taylor, Mortgage Guarantee Bldg., Los Angeles, engrs. Noted Apr. 9.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., May 7, sewers in Horstman Aves., etc., from Welsh Bros. Contg. Co., 32 Queens St., A $1,656,849, B $1,651,759.

Pa., Phila.—Dept. Pub. Wks., Bureau Engineering, May 5, from O'Niell Co., 127 East Mermaid Lane, main sewer in Caster Ave., $142,821, branch sewer in Mermaid Lane, $29,245; from Vare Constr. Co., 1120 Race St., main sewer in Magee Ave. $70,116, branch sewer in Cheltham St. $21,141; from R. P. Ryan, 2923 West Lehigh Ave., main sewer in Summerdale Ave. $16,514, branch sewer jn Balfour St. $34,364; from A. Di Sandro & Son, 3906 North 5th St., branch sewer in Bleigh St. $6,510, Frankford St. $8,829, Ryan St. $5,511, from A. Perna & Son, 752 South 10th St., Cadwallader St. $4,304, from A. J. Henderson, East Washington Lane and Reading Ry., Cedar St. $5,377, 20th St., $7,675, from J. J. McHugh, 1617 Race St., Coleman St. $9,630, Jackson St. $4,189, from A. Cascrato, 1602 Wharton St., Cottage St. $4,420, Princeton St. $5,882, from A. Frunzi, 513 High St., Crittenden St. $8,816, from E. Pascuzzi Co., 601 Lincoln St., Erie St. $13,895, from P. Ventresco, 6225 Chew St., Frankford St. $14,192, from Vattieri & Pontarelli, 523 Rising Sun Lane, Huntington Park Ave. $8,000, N St. $3,452, Sedgley St. $14,633, Towesdale St. $19,064, from J. Hastie, 601 East Hilton St., Jackson St. $6,227, from A. Bonitatibus, 300 West Mt. Pleasant Ave., Rutland St. $5,494, from A. Mattia, 310 West 65th St., Wakeling St. $2,812, from E. F. Bennis, 825 East

Sewers (Continued)

Washington Lane, Wayne St. $6,986. Noted Apr. 30.

O., Cleveland—City, 1,275 ft. 3c or 4c concrete segmental block pipe, 10,020 ft. 12- to 24-in. tile sewer in (1) Rosena Ave. (2) East 85th St. (3) Bartter Ave. (4) Attica Rd. (5) West 106th St. (6) Schel Ave. (7) Kewanee Ave. (8) Briggs Rd. (9) East 171st St., from H. B. Ante Constr. Co., Ulmer Bldg., (1) $9,882 (9) concrete $12,100; from Salem & George Bros., Erie Bldg., (2) $3,296 (3) $3,371; from Langohan Constr. Co., Cleveland, (4) $6,762; from A. J. Galvin, Newman Stern Bldg., (5) $6,923 (8) $6,613; from Hadded & Karial, 415 Eagle Ave., (6) $6,268; from Kassaouff & Co., 3182 West 25th St., (7) $16,497; from N. Carroccio, 14109 Benwood Ave. (9) brick $15,980. Noted Apr. 9.

Mich., Detroit—From Detroit Drainage Constr. Co., 5099 LeMay Ave., 2,748 ft. 12- 18-in. lateral Sewer 4329 $11,000, 8,060 ft. 12- to 30-in. lateral Sewer 4334, $18,737, 2,649 ft. 12- to 24-in. lateral Sewer 4338 $7,800; from Western Constr. Co., 1208 Ford Bldg., 2,083 ft. 12- to 24-in. lateral Sewer 4321 $5,392, 2,317 ft. 15- to 24-in. lateral Sewer 4331 $6,352; from, J. and A. Ponterelli, 2137 Pierce Ave., 4,106 ft. 12- to 24-in. lateral Sewer 4344, $8,500, 1,397 ft. 12- to 18-in. lateral Sewer 4348 $2,750; from Lincoln Constr. Co., Penobscot Bldg., 349 ft. 12- to 15-in. lateral Sewer 4337 $1,250; from S. Fattore, 2201 St. Joseph Ave., 7,568 ft. 12- to 24-in. lateral Sewer 4351 $16,200; from Waterway Constr. Co., Detroit, 1,483 ft. 12- to 18-in. lateral Sewer 4342 $2,949. Noted Apr. 23.

Mich., Detroit—Dept. Pub. Wks., from W. Blanck Co., 40 Seven Mile Rd., 3,273 ft. 3 ft. 6 in. to 6 ft. 3 in. cylinder sewer in Livernois-Curtis Arm, Sect. 1, Six Miles Rd. Sewer $63,195, 5,743 ft. 3 ft. 6 in. to 4 ft. 6 in. Livernois-Curtis Ave. Arm, Sect. 2, Six Mile Rd. Sewer $86,662; from Detroit Drainage Constr. Co., 5099 Lemay Ave., 1,970 ft. 2 ft. 8 in. x 4 ft. 14th Ave. Arm Sewer $18,306, 3,353 ft. 3 ft. 9 in. to 5 ft. 6 in. Waveney Ave. Arm, Bedford Rd. Sewer $36,320; from S. Healy, 6466 Epworth Blvd. 2,820 ft. 3 ft. to 5 ft. cylinder in Waveney Ave. Arm of Ashland Ave. Sewer $31,654.

CONTRACTS AWARDED

Mass., Boston — Dept. Pub. Wks., City Hall, sewerage works in Cambridge and Court Sts., to C. and R. Constr. Co., 67 Harrison St. E., West Roxbury, $81,200. Noted Apr. 30.

Mass., Newton (Boston P. O.) — City, 4,350 ft. sewers in Carver, Brewster and Niles Rds., Mayflower Terrace, Orchard Ave. and private land, to V. Barletta, 10 Whipple Ave., West Roxbury, $22,550. Engrs. est. $25,000.

Conn., Norwalk—Vitr. sewers in Connecticut and Taylor Aves., to P. Longhi & Sons, 43 Center St., Torrington. Engrs. est. $25,000. Noted Apr. 16.

Conn., Wallingford—For 5 filter beds, 50 x 60 x 25 concrete tank, and sewage disposal plant, etc., to New York Sewage Disposal Co., Grand Central Terminal, New York City, $34,557. Engrs. est. $25,000. Noted May 7.

Md., Baltimore — Bd. Awards, storm sewers in Sewer Dist. H-9, Water Contr. 85, to Catalano & Picora Constr. Co., Knickerbocker Bldg., $186,248. Noted May 7.

Ala., Birmingham—Excavating and main sewer line in 10 blocks 20th St., to W. Love, Empire Bldg., $123,622. Engrs. est. $126,375.

O., Cleveland—City, 775 ft. 12- to 24-in. vitr. tile sewer in Archmere Ave., and 445 ft. brick sewer in Attica Ave., to Langahan Constr. Co., Marshall Bldg., $2,663 and $7,031 respectively; 545 ft. 12 in. vitr. tile sewer in Bartter Ave., and 560 ft. in West 146th St., to Sprague & Burkhardt, 11811 Browning Ave., $3,371 and $3,435 respectively; 270 ft. 12 in. vitr. tile in Bosworth Rd., to W. McDowell & Son, 10311 Miles Ave., $1,537; 1,530 ft. 12 in. vitr. tile in Briggs Ave. and 650 ft. 3c. concrete sewer in West 106th St., to A. J. Galvin, Hunkin-Conkey Bldg., $6,613 and $6,946 respectively; 4,925 ft. 12 in. vitr. tile sewer in Kewanee Ave., and 960 ft. 30 in. segmental block sewer in East 171st St., to Kassouff & Co., 3182 West 25th St., $16,497 and $16,708 respectively. Grand total $64,801. Noted May 14.

O., Minerva—Sanitary sewer in Bremen and residential section of city, also enlarging disposal plant, to F. George, Youngstown, $94,510 and $29,827 respectively. Engrs. est. $100,000 and $35,000 respectively. Noted Apr. 9.

Mich., Grand Rapids — Constructing sewers in Neland Ave. and mains in Capital Ave., to P. L. Vander Veen, Grand Rapids, $16,292 and $11,163 respectively.

Ill., East St. Louis—For 8- to 24-in. vitr. clay sewers in Gertrude Pl. Sewer Dist., and 8 in. rein.-con. paving 44th St., to Keeley Bros. Constr. Co., 2100 State Street, $23,720 and $16,300 respectively. Noted Mar. 19.

Tex., Saspamco—San Antonio Sewer Pipe Wks., Bedell Bldg., San Antonio, 4¾ mi. standard gage railway, 50 lb. steel, grading, etc. from companys factory to new clay pit, here, to N. A. Saigh Co., Gibbs Bldg., San Antonio, $29,000.

Calif., Glendale—Vitr. intercepting outfall sewer in Sect. 8, to J. C. Hickey, 320 Palm St., Alhambra, $61,185. Noted Apr. 16.

Calif., Los Angeles—City, Sect. 24 North Outfall Sewer, brick-concrete type, to M. G. Brkich Co., Douglas Bldg., $210,500.

Calif., Los Angeles—Los Angeles Co., Impvt. 298, sewer in Compton Ave., to M. Miller, 208 West 2nd St. $43,545.

Calif., San Fernando—To M. Matick, 1436 West 15th St., Los Angeles, outfall sewer and disposal works. $39,181. Noted Apr. 9.

Calif., San Francisco — City and San Francisco Co., rein.-con. sewer in 30th Ave. between Kirkham St. and Lincoln Way, and Kirkham St. between 26th and 30th Aves., to L. J. Cohn, 110 Sutter St., $46,199. Noted Apr. 9.

Ont., Toronto—York Twp., 40 Jarvis St., 12 in. vitr. tile sewers to G. Hunter, Box 588, London, in Glenholme Ave. $5,288, Earlsdale Ave. and Holland Park $10,893, Cedric and Ravina Aves. $7,159, Ossington Ave. and Mulberry Crescent $4,371, to Mitchell Constr. Co., Elmwood Ave., London, Ashbury and Amherst Aves. $3,505. Hanson Rd. and Jesmond Ave. $3,494.

Ont., Toronto—York Twp., 40 Jarvis St., will build 5,500 lin.ft. 8 to 24-in. vitr. tile and 24 in. concrete sewers in Eglinton, Nairn and Caledonia Aves., by day labor; to J. Coles, 64 Earlsdale Ave., 7,500 lin.ft. 8 in. vitr. tile sanitary and storm sewers in Dundurn, Falwyn, McNab, Ossington Aves., and Vimy Ridge, $20,636, Conway Ave. $3,878; to Natl. Constr. Co., 9 Garnock Ave., in Bathurst St., Raglan and Vaughan Rds., $7,237.

Waste Disposal

PROPOSED WORK

Tex., Dallas—Voted $100,000 bonds for incinerators. E. A. Kingsley, city engr. Noted Mar. 19.

CONTRACTS AWARDED

Mass., Lynn—Rein.-con. and brick incinerator plant, to Decarie Incinerator Co., 342 Madison Ave., New York City. About $148,900. Noted Feb. 12.

Md., Baltimore—Mayor and City Council, City Hall, 2 story, 55 x 195 ft., rein.-con. waste disposal plant, Ostend, Russell and Denver Sts., to DeCou & Davis, 6 East Mulberry St., $101,750.

Tex., Houston — For 4 incinerators, 40 tons capacity each, to Natl. Incinerator Co., Houston, $67,940. Engrs. est. $70,000. Noted Mar. 5.

Bridges

PROPOSED WORK

N. Y., West Seneca—Plans new bridge over Cazenovia Creek, Mill Rd. $40,000. F. C. Munn, town clk.

North Carolina—State Hy. Comn., Raleigh, plans steel bridge over Cape Fear River on Project 355, New Hanover Co. $1,000,000. C. M. Upham, ch. engr.

Ala., Birmingham — City, Louisville & Nashville R.R. Co., 9th St. and Bway., Louisville, Ky., W. H. Courtnay, ch. engr., Southern R.R. Co., 1300 Pennsylvania Ave., Wash., D. C., B. Herman, ch. engr., and Seaboard Air Line R.R. Co., President Continental Bldg., Baltimore, Md., W. D. Faucett, ch. engr., plan rein.-con. viaduct over railroad tracks, at 24th St. $330,000.

Tennessee — Dept. Hys. & Pub. Wks., Nashville, takes bids probably in June, concrete and steel span bridge over Conasauga River, Polk Co. J. G. Creveling, highway comr. Noted Mar. 12.

Ill., Chicago—Sanitary Dist. of Chicago, 900 South Michigan Ave., plans 2 bridges, 1 at Harlem Ave. and other at Crawford Ave. $2,200,000 each. E. J. Kelley, 900 South Michigan Ave., ch. engr.

Wis., Manitowoc — A. H. Zander, city clk., making plans double leaf bascule bridge, 100 ft. channel opening, 50 ft. over Manitowoc River at 8th St. $200,000. Klug & Smith, 69 Wisconsin St., Milwaukee, engr. Noted Mar. 5.

Mich., Bellaire—See "Buildings—Industrial."

Kan., Abilene—Dickinson Co. making preliminary plans one 30 ft. and one 25 ft. deck girder, one 50 ft. Marsh arch and one 60 ft. steel truss bridges, all with 20 ft. roadway, on Federal Aid Project 29-E. C. Nicholay, co. engr.

Kan., Wichita—Sedgwick Co. takes bids about June 30 or July 30, 450 ft. rein.-con. and steel bridge. M. Roseberry, Court House, engr.

Tex., Anson—See "Streets and Roads."

Tex., Bellville—See "Streets and Roads."

Tex., New Braunfels—Making plans concrete and steel bridge across Guadalupe River. $35,000. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs.

Okla., Chandler—Plans election $25,000 bonds, repairing or rebuilding bridge at 9th St. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Oregon—State Hy. Comn., Salem, about May 27, takes bids 340 ft. single span bridge across Crooked River Canyon on Dalles-California Highway, 350 ft. above river bed. $180,000. R. Klein, Salem, highway engr.

BIDS DESIRED

N. H., Nashua—May 25th, by Bd. Pub. Wks. rein.-con. arch bridge, two 57 ft. spans 106 ft. wide, J. R. Worcester & Co., 79 Milk St., Boston, Mass., consult. engr.; G. P. Winn, city engr. Noted Dec. 25.

Mass., Leicester—May 19, by Dept. Pub. Wks., State House, Boston, rein.-con. and bituminous macadam paving 270 ft. highway, and constructing extension bridge, here. W. F. Williams, comr.

Mass., Marshfield — May 19, by Comrs. Plymouth Co., at office of Fay, Spofford & Thorndike, engrs., 200 Devonshire St., Boston, rein.-con. bridge with regulating equipment for Waterway in Green Harbor Dike, here; adv. E. N.-R. May 14.

Conn., New Haven—May 26, at Room 18 City Hall, 3 span 217 ft. steel girder bridge over Mill River, at Willow St. E. S. Nettleton, city engr.; adv. E. N.-R. May 14.

New Jersey—May 25, by State Hy. Dept., Trenton, rein.-con. slab bridge over Fishing Creek, Route 15, Sect. 8, Middle Twp., Cape May Co.; and concrete encased steel bridge over West Creek, Route 15, Cumberland and Cape May Counties. A. L. Grover, secy.; adv. E. N.-R. May 14.

Maryland — May 19, by State Roads Comn., Baltimore, bridge over Evitts Creek, Contr. A-38; bridge over Flintstone Creek at Flintstone, Contr. A-37; and one over Town Creek at Gilpin, Contr. A-36, all Allegany Co. J. N. Mackall, chn.; adv. E. N.-R. May 14.

Virginia—See "Streets and Roads."

South Carolina—May 20, at office J. M. Martin, engr., Florence, Lynches River Bridge and approaches, etc. on State Route 3, Lee and Florence Counties 12,000 lin.ft. treated piling, 3,822 sq.yd. rock asphalt paving, 250 tons rip rap, 119,564 cu.yd. common excav., 5,816 cu.yd. sand clay surfacing, 20,847 lb. reinforcing, etc.

S. C., Lancaster — May 19, by Comrs. Lancaster Co. J. R. Faile, clk., 16 rein.-con. deck girder bridges and 8 rein.-con box culverts, etc. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, N. C., engrs. G. H. Bishop, consult. engr.

Ohio — May 22, by Dept. Highways & Pub. Wks., Columbus, bridge and approaches on Sect. A Youngstown-Conneaut Rd., Ashtabula Co., $31,011; concrete bridge on Sect. F Delaware-Newark Rd., Licking Co., $15,049; bridge on Sect. E-Bridge, Canton-Canal Dover Rd., Tuscarawas Co. $37,510. A. V. Donagheys, div. engr.

O., Dayton—G. F. Maker, dir. Pub. Serv., City Hall, May 1 Summit St. Bridge over Wolf Creek, from E. S. Smith, Indianapolis, Ind., $88,080. Noted Apr. 9.

Wisconsin—See "Streets and Roads."

Ia., Decorah — May 19, by Clerk Winneshek Co. at office N. Nelson aud., one double 90 x 16 ft. and one 50 x 18 ft. pony truss bridge on concrete piers and abutments, one 110 x 16 ft. high truss bridge on two old abutments, and repairing double 80 ft. concrete arch bridge, etc. $25,000. F. W. Arneson, Decorah, engr.

Ia., Marion—Linn Co., pony truss bridge over Martindale Creek, on Alburnett Rd., to Waterloo Constr. Co., Waterloo, $14,447; 160 x 20 ft. high truss bridge over Abbey Creek, to H. O. Graham Co., 807 Security Bldg., Cedar Rapids; $20,440; small bridges and culverts on Lincoln Highway and Red Ball Highway, to P. Jayne, 116 16th Ave. W., Cedar Rapids, $16,556. Grand total $51,443. Noted Mar. 19.

Ia., Webster City—Hamilton Co., 3 steel and concrete bridges and 7 concrete culverts in various sections, to A. Swanson & Co., Webster City, $28,000.

Kan., Iola—See "Streets and Roads."

Missouri—May 22, by State Hy. Dept., Jefferson City, two 10 ft. rein.-con. slab spans over Bailey Branch, two 12 ft. rein.-con. slab spans, etc. over Long Branch, two 12 ft. rein.-con. slab spans, etc. over Birdsong Creek, two 12 ft. rein.-con. slab spans, etc. over Dry Fork Branch, two 12 ft. rein.-con. slab spans on Sta. 44 plus 56,

Bridges (Continued)

two 20 ft. rein.-con. slab spans, etc. over Sappington Branch, all in Maniteau Co., two 12 ft. rein.-con. slab spans, etc. over Norwegian Creek, 60 ft. steel truss span, etc. over Little Fabius Creek, 45 ft. rein.-con. deck girder span, etc. over Coon Creek, all in Knox Co.; two 80 ft. steel truss and four 25 ft. rein.-con. deck girder spans, etc. over middle fork South Fabius Creek, 80 ft. steel truss span, etc. over Tabin Creek, all in Scotland Co.; 45 ft. rein.-con. deck girder and six 20 ft. rein.-con. slab spans, etc. over Silver Fork Creek, 40 ft. rein.-con. deck girder span, etc. over Grindstone Creek, Boone Co.; 120 ft. and two 80 ft. steel truss spans, etc. over Saline Creek, Miller Co.; 55 ft. steel truss span, etc. over Chicago, Rock Island & Pacific R.R., Franklin Co.; three 45 ft. rein.-con. deck girder spans, etc. over South River, Marion Co.; two 20 ft. rein.-con. slab spans, etc. over stream, Audrian Co.; three 20 ft. rein.-con., slab spans, etc. over Little Beaver Creek, Phelps Co.; five 80 ft. steel truss spans, etc. over east fork Black River, Reynolds Co., B. H. Piepmeier, ch. engr.

Tex., Anderson—See "Streets and Roads."

Tex., Austin—City, W. D. Yett, mayor, taking bids 3 span 300 ft. bridge across Barton Springs River. $35,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Washington — May 26, by State Hy. Comn., Olympia, two 20 ft. rein.-con. slab span bridge on State Rd. 2, between Cashmere and Dryden, Chelan Co.; one 45 ft. rein.-con. T-beam bridge over Moses Coulee, on State Rd. 10 between Columbia River Sta. and Rock Island, Douglas Co.; 3 rein.-con. bridges, one 30 ft. T-beam over Kiona Creek, one 20 ft. arch culvert over Oliver Creek and one 16 ft. slab bridge over Peters Creek, on State Rd. 5 between Kosmos and Randle, Lewis Co. J. Allen, highway engr.

Washington—June 9, by State Hy. Comn., Olympia, 4 Everett-Marysville bridges on State Rd., Snohomish Co. 1. J. W. Hoover, highway engr.; adv. E. N.-R. May 14.

BIDS RECEIVED

Pennsylvania — State Hy. Dept., Harrisburg bridge on Route 241, Wyoming Co., from Whittaker & Diehl Co., Union Trust Bldg., Harrisburg. $82,027.

CONTRACTS AWARDED

Ohio—See "Streets and Roads."

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 73 ft. and two 82 ft. steel span superstructure on Route 7, Sect. F-2, Will Co., and 120 ft. steel superstructure, Route 29, Sect. U-1, Bureau Co., to St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo., $10,558 and $8,528 respectively; concrete substructure two 150 ft. spans and ten 50 ft. span concrete girder bridges, Route 9, Sect. 39-D Fulton Co., to Hurtgen & Sayer, St. Louis, Mo., $57,770; two 20 ft. span concrete slab bridge and one 14 ft. slab extension, Route 27, Sect. 15-B, Carroll Co., to M. Small, Lincoln, $8,015; one 120 ft. concrete substructure and five 30 ft. concrete girder approaches, also five 30 ft. concrete girder spans, Route 29, Sect. U, Bureau Co., to A. P. Munsen, Marion, Ia., $62,837; one 30 ft., one 40 ft. and one 60 ft. concrete girder bridges, Route 45, Sect. 1-B, La Salle Co., to Hartman-Clark Bros., Dwight, $16,866; grand total $164,774. Noted Dec. 31 and Apr. 2.

Wis., Fond du Lac—See "Streets and Roads."

Ia., Carroll—Carroll Co., one 100 ft. and two 70 ft. span rein.-con. and steel pony truss bridges, 18 ft. roadway over Coon River, to Lundgren-Reis Co., 65 College St., Des Moines, $20,670. Noted Apr. 16.

South Dakota — State Hy. Comn., Pierre **(F. A. P. means Federal Aid Project)** to Missouri Valley Bridge Co., 4th and Walnut Sts., Leavenworth, Kan., bridge on F. A. P. 165-C, Brule Co., 70,625 lb. reinforcing and 151,865 lb. structural steel, etc., $32,421; to Diamond Eng. Co., Grand Island, Neb., bridge on F. A. P. 185-E, Lyman Co., 20,196 lb. reinforcing and 82,310 lb. structural steel, etc. $11,558, bridge on F. A. P. 189-B, Charles Mix Co., 15,874 lb. reinforcing and 58,707 lb. structural steel, $9,377; to Aberdeen Constr Co., Aberdeen, bridge on F. A. P. 171-E, McPhearson Co., 7,943 lb. reinforcing, etc., $2,365; to W. Bonesteel, Wagner, bridge on F. A. P. 181-B, Potter Co., 33,878 lb. reinforcing and 105,727 lb. structural steel, etc., $18,870. Grand total $74,591.

Railways

PROPOSED WORK

Texas—City of Dallas, c/o Mayor, plans raising Texas & Pacific Railroad tracks above water level at new reservoir, by embankment and trestle. $50,000. E. H. Kingsley, city engr.

Texas — City of San Antonio making surveys 1½ to 2 mi. car line from city limits to Exposition Grounds, in San Antonio. $30,000. W. B. Tuttle, Terrell Bldg., mgr. Private plans.

Oklahoma — Chicago, Rock Island & Pacific R.R. Co., La Salle Sta., Chicago, making surveys 4 mi. track from Okeene to Homestead, here. $200,000. C. A. Morse, ch. engr.

BIDS RECEIVED

New Jersey—North Jersey Dist. Water Comn., May 7, relocation of Erie R.R. at Wanaque, from Winston & Co., 342 Madison Ave., New York City, $797,680.

CONTRACTS AWARDED

Texas—Atchison, Topeka & Santa Fe R.R. Co., 80 East Jackson St., Chicago, Ill., 63 mi. standard gage line in Lubbock and Cochran Counties, to Sharp & Fellows, Central Bldg., Los Angles., approximately $300,000. Noted Mar. 19.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Texas — Medina Irrigation Project 1, comprising Medina Co. (Hondo), Atascosa Co. (Jourdanton) and Bexar Co. (San Antonio) voted $2,500,000 bonds, purchasing irrigation project at Medina Lake, 30 mi. west of San Antonio, and extending canals and laterals to include 40,000 acres irrigation. Approximately $720,000 will be used for canals and laterals. Address H. R. Robertson, receiver, Maverick Bldg., San Antonio. Noted Feb. 26.

Texas—State Reclamation Dept., Austin, plans 150 mi. levee along Rio Grande River from Brownsville to near Mission. $3,000,000. Address B. F. Williams, Austin, state recording eng.

BIDS DESIRED

Mass., Chatham—May 21, by Dept. Pub. Wks., Div. Waterways, State House, Boston, dredging 50,000 cu.yd. material from Mitchells River, here. W. F. Williams, comr.

Fla., Leesburg—June 15, by City Comn., W. E. Harkness, clk., filling and dredging in Lake Harris. C. B. Gamble, acting mayor comr.; adv. E. N.-R. May 14.

O., Ravenna—May 18 at office of J. M. Parham, aud. Portage Co., Court House, constructing various working sections of Fish Creek Ditch Impvt., in Franklin Twp., Portage Co., and Stow Twp., Summit Co., J. L. Walter, Surveyor Portage Co.; adv. E. N.-R. May 14.

Ill., Mount Auburn — May 21, by R. Butcher, chn. comn., 1st Natl. Bank, cleaning Mount Auburn D. D., incl. 2,650 ft. 30 in. drain tile, 4.7 ft. average depth, 330 ft. 24 in., 5.4 ft. deep, 1,720 ft. 20 in. 5.8 ft. deep, 2,640 ft. 14 in. 5.2 ft. deep, 3,500 ft. 12 in. 5.4 ft. deep, 1,350 ft. 10 in. 5.3 ft. deep, and 200 ft. 8 in. 4.8 ft. deep. J. W. Dappert, Taylorville, engr.

Ark., Osceola—May 20, by Lee Wilson & Co., at office of C. E. Sullenger, 7½ mi. ditches, incl. 200,000 cu.yd. excav., etc. Morgan Eng. Co., 622 Goodwin Institute, Memphis, Tenn., engrs. Noted Nov. 6.

Tex., Dallas—Bois D'Arc Island Levee Dist., c/o C. C. Cobb, chn. Bd. Supervs., 512 North Texas Bldg., taking bids levee work, etc., incl. 1,116,000 cu.yd. drag line excav., etc., in Dallas Co. $650,000. T. C. Forrest, Jr., Waxahachie, engr.

Okla., Chandler—May 26, by A. Burgess, clk. Lincoln Co., 88,300 cu.yd. excav., 371 cu.yd. concrete, etc., in Kickapoo D. D. 4. $30,000. H. J. Wilkins, Oklahoma City, engr.

CONTRACTS AWARDED

N. Y., New York — M. Cosgrove, comr. Docks, Pier A, foot Battery Pl. North River, dredging at Pier 53 to 56, North River. Contr. 1860, to Morris & Cummings Dredging Co., 17 State St., $27,354. Noted May 7.

New Jersey — Morris Canal & Banking Co., Arrow Bldg., Blackwell and Sussex Sts., Dover, reconstructing and dismantling work on Sect. 86-102, of Morris Canal between Boonton and Mountain View, incl. removal of 17 bridges, grading approaches, etc., to Culp Constr. Co., Dover, $81,826.

Streets and Roads

PROPOSED WORK

New Hampshire—State Hy. Dept., Concord, plans grading and 6 in. concrete on 3 in. gravel surfacing 9,000 sq.yds. Rockingham Rd., Rockingham Co., $44,232; grading, graveling and 2 rein.-con. girder bridges on 0.899 mi. Mascoma Valley Rd. Grafton Co., $42,500. M. L. Johnson, Patriot Bldg., Concord, engr.

Rhode Island—State Bd. Pub. Rds., State House, Providence, plans highway in town of Tiverton. $40,000. A. L. Atwood, chrn.

New Jersey—State Hy. Dept., Trenton, plans concrete paving 4 mi. Route 4, from Rahway to Perth Amboy, Union and Middlesex Counties. $400,000. W. G. Sloan, Trenton, state highway engr.

N. J., Caldwell—Freeholders Essex Co. (Newark), plans grading and sheet asphalt paving 28,000 ft. Roseland Ave., 30 ft. $40,000. W. A. Stickle, Newark, engr.

N. J., Lakewood—Freeholders Ocean Co. (Toms River), plans concrete paving 3 mi. Lakewood-New Egypt Rd. J. M. Abbott, Toms River, engr.

N. J., Moorestown—Freeholders Burlington Co. (Mt. Holly), plans rebuilding 2 mi. Church Rd., here. $80,000. H. B. Smith, Mt. Holly, engr.

Pennsylvania — State Hy. Dept., Harrisburg, plans readvertising improvement Route 296, Application 1636 Susquehanna Co. Former contract rescinded. Noted Jan. 8.

Pa., Clearfield—Boro Council, takes bids about June 1, brick paving, 1 mi. Bigler Ave., 2nd, Market and Daisy Sts., 18 to 24 ft., $50,000. E. W. Hess, boro, engr. Noted Mar. 12.

Kan., Hutchinson—Soon takes bids grading, curbing and asphaltic concrete surfacing 8 blocks 8th Ave., Madison St. and Shadduck Dr. R. B. Lee, City Hall, engr.

South Dakota—State Hy. Comn., Pierre, rejected bids Apr. 29, grading 6.02 mi. State Aid Project 104, Roberts Co., and 0.53 mi. Federal Aid Project 165-C, Brule Co. Noted Apr. 16.

Tex., Dallas—Voted $250,000 bonds. paving various streets. A. E. Kingsley, city engr.

Tex., Houston—Voted $500,000 bonds for roadway on each side Buffalo Bayou to Turning Basin; $750,000 bonds for city's portion of street paving and $300,000 bonds for city's share of gravel, shell and macadam paving various streets. J. C. McVey, city engr. Noted Mar. 12.

Tex., Park Place (mail Houston)—Voted $85,000 bonds, paving various streets, incl. gravel surfacing Park Place Blvd., Galveston Rd. to city limits, and inverted penetration bituminous top on other streets; also extending sanitary sewerage system. $15,000 bonds voted. E. G. Sloan, 505 Stewart Bldg., Houston, engr. Noted Apr. 2.

Tex., Quanah — Hardeman Co. voted $600,000 bonds, hard-surfacing Colorado-Gulf Highway Rd. Address C. Y. Welch, Quanah, co. judge. Noted Feb. 5.

Tex., Richmond—Ft. Bend Co., election May 30, $225,000 bonds, improving roads in Rosenberg Road Dist. C. H. Kendall, Sugarland, co. engr.

Tex., San Angelo—Voted $80,000 bonds, paving various streets. Address E. J. Jackson. Noted Mar. 12.

Tex., Seguin—Comal Co. voted $92,000 bonds, surfacing roads in Dist. 1. Address County Judge, Sequin.

Tex., Temple—Voted $25,000 bonds, additional street paving. H. J. Greaser, city mgr.

BIDS DESIRED

Maine — May 20, by State Hy. Comn., Augusta, bituminous macadam surfacing 2.03 mi. Sect. K, Spur Houlton, and 4.3 mi. Sect. S, Gray; gravel surfacing 3.42 mi. Sect. V, New Sharon, 2.9 mi. Sect. N, Ellsworth-Hancock, and 5.26 mi. Sect. F, Livermore Rds. F. A. Peabody, chn.

Massachusetts — May 19, by Dept. Pub. Wks., Div. Highways, Court House, Boston, concrete paving 17,181 ft. highway in Plainville and Wrentham, 18 ft. $125,000. W. F. Williams, comr. Noted Mar. 26.

Massachusetts — May 19, by Dept. Pub. Wks., State House, Boston, bituminous macadam paving 989 ft. highway in Randolph; and concrete paving 3,652 ft. in Grafton, $25,000. W. F. Williams, comr.

Conn., Hartford — Taking bids concrete paving Ridgefield St. and Westbourne Parkway. $48,000. R. N. Clark, city engr.

N. Y., Brooklyn — May 20, by J. A. Guider, boro pres., Boro Hall, asphalt paving, etc., Westminster Rd., Aves. N and O, Belmont, Lott, Williams, 13th, Wood and Schenectady Aves., Bristol, Newport, Carroll, Dean, Maple, McDonough, St. Nicholas, 9th, 57th and 61st Sts.; sidewalks, etc., on Leonard St. et al.; grading, curbing, flagging, etc., 19th Ave. from 71st to 72nd Sts., and 19th Ave. from 76th to 78th Sts., also 73rd St.

N. Y., Brooklyn—May 21, by Park Bd., Dept. Parks, 64th St. and 5th Ave., New York City, improving Highland Park Dr., here.

N. Y., St. George — May 19, by J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete repaving Richmond Terrace; con-

Streets and Roads (Continued)

crete curbing, brick guttering, etc., on North Burgher Ave., et al.

New Jersey—May 25, by State Hy. Dept., Trenton, bituminous concrete surfacing Route 2, Sect. 7, Mercer Co.; and grading and rein.-con. paving Route 8, Sect. 6, Passaic and Morris Counties. A. L. Grover, secy.; adv. E. N.-R. May 14.

New Jersey—May 25, by State Hy. Dept., Trenton, widening 1 mi. Route 2, from Trenton to White Horse, from 18 to 38 ft., Mercer Co. W. G. Sloan, Trenton, state highway engr.

N. J., Clinton—May 28, by Freeholders Hunterdon Co., Flemington, reconstructing ½ mi. Clinton-Pittstown Rd., here. $25,000. G. Davis, Whitehouse Sta., engr.

N. J., West Caldwell (mail Caldwell)—May 22, by Purchasing Agent, Essex Co. (Newark), grading and rein.-con. paving 1.19 mi. Clinton Rd., here. $75,000. W. A. Stickel, Newark, co. engr.

Pa., Phila.—May 18, by Bureau Highways, Dept. Pub. Wks., Schedule A, grading 17 streets; Schedule B, asphalt paving 25 streets; Schedule C, asphalt repaving 3 streets; Schedule D, redressed granite block repaving 2 streets; Schedule E, vitr. block repaving 1 street; Schedule F, country road improvement 6 streets; Schedule G, grading, paving and improving 1 street; Schedule H, constructing concrete dam and section of bathing lake at League Island Park; Schedule I, reconstructing sewer in 1 street. J. H. Neeson, ch. Bureau Highways. G. H. Biles, dir. Pub. Wks.

Maryland — May 26, by State Roads Comn., Baltimore, sheet asphalt paving 0.76 mi. Contr. BC-56, in Baltimore City; concrete paving 1 mi. Contr. S-23, Somerset Co., and 1.04 mi. Contr. WO-43, Worcester Co. J. N. Mackall, chn.; adv. E. N.-R. May 14.

Md., Baltimore—May 20, by Bd. Awards, grading and sheet asphalt paving 17,900 sq.yd. Contr. 283-OA; and granite block paving 5,800 sq.yd. Contr. 284-OC. L. G. Turner, 213 East Lexington St., acting chn. paving com.

Virginia—May 26, by State Hy. Dept., Richmond, improving roads and building bridges on Route 31, Project F-182-A, Prince William Co.; Route 114, Project F-190, Wise Co.; Route 31, Project F-215, Chesterfield Co.; Route 20, Project S-322-C, Charlotte and Campbell Counties; Route 113, Project S-327-B, Russell Co.; Route 11, Project F-344-A, Wise Co.; Route 31, Project F-358-D and F, Hanover Co.; Route 31, Project S-358-E, Hanover Co.; and Route 351, Project S-403, Sussex Co., C. S. Mullen, ch. engr.; adv. E. N.-R. May 14.

Miss., Jackson—May 19, by City Clerk, grading, curbing and hardsurfacing 10 mi. Fortification, Monument, Pascagoula, Roach, Amite North State, Mill and other streets. M. L. Culley, City Hall, engr. Noted Mar. 19.

Louisiana—May 28, by State Hy. Comn., Reymond Bldg., Baton Rouge, graveling 3.69 mi. Project 434, Olla-Winnfield Highway, La Salle Parish. W. B. Roberts, ch. engr.

Louisiana—June 2, by State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 6.02 mi. State Project 415, Jonesboro-Bienville Highway, 6.91 mi. State Project 414-B, Jonesboro-Monroe Highway, also State Project 469, Chatham-Columbia Highway, all in Jackson Parish. W. B. Roberts, ch. engr.

Kentucky—May 25, by State Hy. Dept., at office of E. N. Todd, highway engr., Old Capitol Bldg., Frankfort, **(S. P. means State Project)**, surface treating 2.501 mi. Middlesboro-Manning Rd., 14 ft., S. P. 5-T, 16.74 mi. Pineville-Middlesboro Rd., 16 ft., S. P. 5-S, and 2.13 mi. Middlesboro-Cumberland Rd., 16 ft., S. P. 38-A, all in Bell Co., 4.166 mi. Mayo Trail, 16 ft., S. P. 6-B-1, Boyd Co., 8.23 mi. Brookville-Augusta Rd., 14 ft., S. P. 48-A, and 12 mi. Brookville-Cynthiana Rd., 12 ft., S. P. 58½-D, both Bracken Co., 3 mi. Paris-Lexington Rd., 16 and 28 ft., S. P. 20-H, 2 mi. Paris-Cynthiana Rd., 14 ft., S. P. 21-G, 8.9 mi. Paris-Winchester Rd., 16 ft., S. P. 50-D, and 7 mi. Paris-Mt. Sterling Rd., 14 ft., S. P. 32-A, all in Bourbon Co., 3.5 mi. Danville-Harrisburg Rd., 16 ft., S. P. 22-D, 2 mi. Danville-Lancaster Rd., 16 ft., S. P. 96-A, and 8.68 mi. Danville-Perryville Rd., 16 ft., S. P. 25-C, in Boyle Co., 1.1 mi. Midland Trail-Kilgore Rd., 16 ft., S. P. 47-R-1, Carter Co., 6.3 mi. Winchester-Paris Rd., 16 ft., S. P. 50-C, and 7.7 mi. Winchester-Richmond Rd., 18 ft., S. P. 50-B, both Clark Co., 7.68 mi. Irvine-Richmond Rd., 14 ft., S. P. 29-B, Estill Co., 5.4 mi. Lexington-Harrisburg Rd., 20 and 22 ft., S. P. 47-G, 2.9 mi. Lexington-Georgetown Rd., 18 ft., S. P. 5-H, and 8.3 mi. Lexington-Richmond Rd., 16 ft., S. P. 5-I-1, all in Fayette Co., 7.8 mi. Frankfort-Shelbyville Rd., 16 ft., S. P. 17-D, and 9 mi. Georgetown-Frankfort Rd., 14 and 20 ft., S. P. 17-E, both Franklin Co., 2 mi. Warsaw-Sparta Rd., 14 ft., S. P. 64-A, Gallatin Co., 7 mi. Lancaster-Lexington Rd., 16 ft., S. P. 23-D, 7.9 mi. Lancaster-Lexington Rd., 16 ft., S. P. 25-E, 11.1 mi. Lancaster-Richmond Rd., 14 and 16 ft., S. P. 25-F, and 3 mi. Lancaster-Nicholasville Rd., 16 ft., S. P. 97-A, in Garrard Co., 2.7 mi. Dixie Highway, 16 ft., S. P. 8-B, 4.717 mi. Dixie Highway, 18 ft., S. P. 11-M, and 6.447 mi. Elizabethtown-Nelson Co. line Rd., 14 ft., S. P. 46-K, in Hardin Co., 9.575 mi. Cynthiana-Falmouth Rd., 14 ft., S. P. 21-E, Harrison Co., 4 mi. Dixie Highway, 12 ft., S. P. 11-J, Hart Co., 10.5 mi. Campbellsburg-Eminence Rd., 13 ft., S. P. 46-B and C, Henry Co., 17.5 mi. Louisville-Shelbyville Rd., 18 ft., S. P. 17-A and A-1, Jefferson Co., 5.4 mi. Nicholasville-Lexington Rd., 16 ft., S. P. 23-B, 7.7 mi. Danville-Nicholsville Rd., 16 ft., S. P. 23-C, and 6.96 mi. Harredsburg-Lexington Rd., 16 ft., S. P. 47-F, all in Jassamine Co., 9.313 mi. London-Mt. Vernon Rd., 16 ft., S. P. 5-N-2, and 13 mi. London-Carbin Rd., 12 and 14 ft., S. P. 5-0, in Laurel Co., 4 mi. Stanford-Somerset Rd., 14 ft., S. P. 22-G, Lincoln Co., 7.84 mi. Richmond-Irvine Rd., 14 ft., S. P. 29-A, Madison Co., 2 mi. Lebanon-Danville Rd., 14 ft., S. P. 25-B, Marion Co., 3.66 mi. Danville-Harrisburg Rd., 16 ft., S. P. 22-C, and 7 mi. Harrisburg-Lexington Rd., 16 ft., S. P. 47-E, in Mercer Co., 3.14 mi. Sterling-Frenchburg Rd., 14 ft., S. P. 32-C, Montgomery Co., 10.5 mi. Bloomfield-Lawrenceburg Rd., 12 and 14 ft., S. P. 44-A, 4 mi. Bardstown-Bloomfield Rd., 14 ft., S. P. 18-D, 3 mi. Bardstown-Springfield Rd., 14 ft., S. P. 47-A, and 6 mi. Bardstown-New Haven Rd., 16 ft., S. P. 3-D, all in Nelson Co., 2.2 mi. Paris-Carlisle Rd., 16 ft., S. P. 61-A, Nicholas Co., 8 mi. Owenton-Gratz Rd., 12 ft., S. P. 19-D, 3.5 mi. Georgetown-Owenton Rd., 14 ft., S. P. 49-B, and 5 mi. Owenton-Carrollton Rd., 14 ft., S. P. 59-A, in Owen Co., 8.425 mi. Cynthiana-Falmouth Rd., 14 ft., S. P. 21-D, and 3 mi. Covington-Falmouth Rd., 12 and 16 ft., S. P. 21-C, Pendleton Co., 12 mi. Stanford-Somerset Rd., 14 ft., S. P. 22-H, Pulaski Co., 9 mi. Frankfort-Georgetown Rd., 14 ft., S. P. 17-F, and 2.5 mi. Georgetown-Oxford Rd., 12 ft., S. P. 58½-A, Scott Co., 1.5 mi. Bowling Green-Morgantown Rd., 16 ft., S. P. 11-F, and 8.48 mi. Dixie Highway, 18 ft., S. P. 11-G-1, Warren Co., 2.3 mi. Springfield-Bardstown Rd., 16 ft., S. P. 47-B, Washington Co., 7.31 mi. Williamsburg-Corbin Rd., 14 ft., S. P. 35-A, Whitley Co., 6.3 mi. Versailles-Lawrenceburg Rd., 14 ft., S. P. 20-D, 4 mi. Versailles-Lexington Rd., 18 ft., S. P. 20-E, 2 mi. Versailles-Midway Rd., 16 ft., S. P. 32-J, 8.8 mi. Versailles-Frankfort Rd., S. P. 26-B, and 14.7 mi. Versailles-Brooklyn Rd., 14 and 16 ft., S. P. 26-C, in Woodford Co.; waterbound macadam surfacing 3.955 mi. Newport-Augusta Rd., 14 ft., S. P. 21½-A, Campbell Co.

Ohio — May 22, by Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving 35.449 mi. roads in Adams, Ashtabula, Brown, Delaware, Franklin, Fulton, Hamilton, Licking, Montgomery, Union, and Van Wert Counties. A. V. Donaheys, div. engr.

O., Cincinnati—May 22, by Comrs. Hamilton Co., concrete paving, etc. 54,119 sq.yd. Dunlap-Springdale Rd. $195,581. E. A. Gast, Court House, engr. Noted Oct. 30.

O., Columbus — May 20, by Bd. Comrs. Franklin Co., grading and sheet asphalt paving, etc. 680 ft. Polo Pl. Rd. $8,972, 2,358 ft. Elbern Ave. Rd. $31,356, 594 ft. Medway Ave. Rd. $8,158, and 892 ft. Broadmoor Ave. Rd. $12,037, all in Truro Twp.

O., Mansfield—May 15, by H. C. Lynch, dir. Pub. Serv. & Safety, paving, etc., 3,500 sq.yd. 3rd Ave.

Michigan—May 16, by State Hy. Dept. at office Comrs. Iosco Co., Tawas City, graveling 6.5 mi. Assessment Dist. Rd., 16 ft. G. C. Dillman, Lansing, ch. engr.

Mich., Pontiac—May 28, by Oakland Co. Comrs., concrete paving 1.203 mi. State Trunk Line Rd. 10-39, C2, L. V. Belknap, Pontiac, co. engr.

Ill., Blue Island—May 18, by City Clerk, grading, concrete curbing and concrete surfacing 16,000 sq.yd. various streets. A. L. Fox, 160 North La Salle St., Chicago, engr.

Wisconsin — May 19, by C. R. Weymouth, div. engr., Stephenson Bldg., Milwaukee, improving 3.8 mi. Kilbourn Rd., Federal Aid Project 361-B, Racine Co., 23,330 cu.yd. earth, 100 cu.yd. each loose and solid rock excav., 46,006 sq.yd. concrete surfacing, etc.; 2.2 mi. Fond du Lac-Ripon Rd., Federal Aid Project 365-B, Fond du Lac Co., 10,569 cu.yd. earth, 100 cu.yd. each loose and solid rock excav., 26,770 sq.yd. concrete surfacing. J. T. Donaghey, Madison, highway engr.

Wisconsin—May 20, by State Hy. Comn., at Office 6, 213 South Barstow St., Eau Claire, improving 4.62 mi. Red Wing-Ellsworth Rd., Federal Aid Project 384-B, Pierce Co., 30,412 cu.yd. earth and 175 cu. yd. solid rock excav., 3,562 cu.yd. borrow, 8,296 cu.yd. 24 ft. gravel surfacing, etc.; grading, bridging, gravel and clay or crushed stone surfacing 1.94 mi. Durand-Ellsworth Rd., Federal Aid Project 401-A, Pierce Co. J. T. Donaghey, Madison, highway engr.

Wisconsin—May 21, by State Hy. Comn., at Office 8, 1st Natl. Bank Bldg., Superior, grading, clearing, bridging and gravel surfacing 15,375 cu.yd. St. Croix Falls-Superior Rd., Federal Aid Project 407-A, Burnette Co.; grading, clearing, bridging and concrete surfacing 2.58 mi. Prentice-Park Falls-Mellen-Ashland Rd., Federal Aid Project 405-A, Ashland Co. J. R. McLean, Madison, div. engr.

Wis., Appleton—May 18, by E. L. Williams, city clk., sheet asphalt, vibrolithic, Warrenite bituminous or bitulithic concrete on macadam paving 60,000 sq.yd. various streets. R. M. Connelly, City Hall, engr. Noted Apr. 30.

Minn., Hastings — May 18, by R. W. Downs, aud. Dakota Co., curbing, concrete paving, etc. 22,161 sq.yd. State Rd. 7, Job 2507. $45,000. J. Swan, Hastings, engr.

Minn., Wheaton—May 16, by City, G. I. Kristenson, village recdr., improving various streets, 6,630 lin.ft. straight and 660 lin.ft. curved curbing, 17,500 sq.yd. vitr. brick, asphaltic, Warrenite bitulithic, vibrolithic, reinforced or concrete paving.

Kan., Iola—May 27, by Clark Allen Co., grading, bridging and gravel surfacing 5 mi. Iola-Geneva Rd., 28 ft. L. J. Noftzger, Iola, co. engr.

Neb., Pender—May 21, by M. Smith, City Hall, city clk., curbing, guttering, concrete, brick, sheet asphalt, asphaltic concrete or Warrenite paving, etc., 21,620 sq.yd. various streets in Dist. 1. Nixon & Reynolds, 305 Grain Exch. Bldg., Omaha, engrs. Noted May 7.

Montana — May 20, by State Highway Comn., Helena, grading and gravel surfacing 6 mi. Drummond-Hall Rd., Granite Co., $25,000; also resurfacing 22 mi. Yellowstone Trail east of Billings, Yellowstone Co. $40,000.

Missouri—May 22, by State Hy. Dept., Jefferson City, grading 144,650 cu.yd. Palmyra-Hannibal Rd. Marion Co., 61,725 cu.yd. St. Joseph-Savannah Rd. Andrew Co., 38,189 cu.yd. St. Joseph-Savannah Rd. Buchanan Co., 2,822 cu.yd. road from Spickard south Grundy Co., 9,212 cu.yd. road north and 23,463 cu.yd. road south from Princeton Mercer Co., 3,216 cu.yd. road from Cape Girardeau south Scott Co., 2,276 cu.yd. road from Cape Girardeau, south, Cape Girardeau Co., and 88,640 cu. yd. road from House Springs north, Jefferson Co.; 30 ft. grading 9,289 cu.yd. Memphis-Baring Rd. Scotland Co., 90,405 cu.yd. St. Louis-Springfield Rd. Phelps Co., 117,356 cu.yd. road from Hinton north Boone Co., 114,196 cu.yd. Jefferson City-Tuscumbia Rd. Miller Co., 17,424 cu.yd. Lesterville-Ironton Rd., and 71,163 cu.yd. Garwood-Leeper Rd., both in Reynolds Co.; grading and 16 ft. gravel surfacing, etc. 14,865 cu.yd. Memphis-Baring Rd. Scotland Co., 4,212 cu.yd. La Grange-Morrison Co. Line Rd. Lewis Co., 16,688 cu.yd. road from Edina south and 6,305 cu.yd. Memphis-Baring Rd., Knox Co.; grading and 20 ft. gravel surfacing, etc. 6,802 cu.yd. West Plains-Oregon Co. Line Rd. Howell Co., 13,735 cu.yd. road from Tipton east and west, Moniteau Co.; grading and 18 ft. gravel surfacing, etc. 11,816 cu.yd. Mexico-Vandalia Rd., Audrain Co.; 9 ft. concrete surfacing 7,950 sq.yd. road from Spickard, north Grundy Co., 24,320 sq.yd. road from Princeton north, and 31,535 sq.yd. road from Princeton south, Mercer Co. B. H. Piepmeier, ch. engr.

Mo., Sedalia — May 18, by City Clerk, grading, curbing and 6 in. 1-2-3 mix concrete paving 2,139 ft. Grand Ave., 30 ft. C. O. Manker, City Hall, engr.

Tex., Anderson—May 27, by R. W. Barry, judge Grimes Co., clearing, grubbing, bridging and grading 6.71 mi. State Highway 6, Federal Aid Project 471-B, 26 ft., incl. 110,235 lb. reinforcing, etc. $75,665. O. A. Seward, Jr., Novasota, engr.

Okla., Lindsay—May 18, by C. A. Hillyer, city clk., grading and vertical fibre brick surfacing 13,200 sq.yd. Main St., 75 ft. $51,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 16.

Idaho—May 23, at office Commisioner Pub. Wks., Boise, grading and crushed gravel surfacing, etc. 12,593 cu.yd. Old Oregon Trail Highway, Federal Aid Project 91-A, Oda Co.

Washington — May 26, by State Hy. Comn., Olympia, grading, etc. 4 mi. Sunset Highway, State Rd., 2, Chelan Co.; grading, one course concrete paving, etc. 3.2 mi. Ocean Beach Highway, State Rd. 12, Pacific Co.; grading and crushed gravel surfacing 7 mi. State Rd. 22, from Daisy South, Stevens Co.; crushed rock surfacing approximately 9,500 cu.yd. State Rd. 12,

Streets and Roads (Continued)

Lewis and Pacific Counties. J. W. Hoover, highway engr.

Wash., Longview—May 24, by City Clerk, grading, curbing, guttering, sidewalks and concrete paving 57,259 sq.yd. LID No. 2, East Longview. $252,172. T. H. Davis, Longview, engr.

Ont., Chatham—May 16, by W. D. Colby, engr. Kent Co., Harrison Hall, rein.-con. paving 45,000 sq.yd. various roads. $120,000.

Ont., London—May 19, by E. S. Little, chn. London Suburban Rds. Comn., County Bldg., concrete paving 32,000 sq.yd. Hyde Park Highway. $90,000. C. Talbot, County Bldg., engr. Noted May 7.

Ont., Sandwich—May 18, by E. R. North, town clk., concrete paving 1½ mi. Wyandotte, Partington, Rosedale, Queen, Askin and Kennedy Aves. $60,000. C. R. McColl, 16 Askin Blvd., engr.

Ont., Sarnia—Good Roads Advisory Com., W. Hackett, chn., County Bldg., wants prices on crushed stone and cement for paving work, incl. construction 4 small bridges. $156,000.

Ont., Welland—June 1, by R. Cooper, clk. Welland Co., 2 mi. waterbound macadam road in Willoughby Twp. and 2 mi. in Wainfleet Twp. $50,000. C. L. Coulson, Welland, co. engr.

BIDS RECEIVED

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, surfacing Furnace Brook Parkway, in Quincy and Milton, from A. W. Loud, 16 Granite St., Quincy, $26,855.

Massachusetts—Park Dept., 33 Beacon St., Boston, widening and resurfacing roadway in Franklin Park, from J. C. Coleman & Sons, 1620 Tremont St., Roxbury, $50,360.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., May 8, grading and repaving West Alley Rd., from W. P. MacDonald Constr. Co., 342 Madison Ave., New York City, $149,430. Noted May 7.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., May 6, restoring sidewalks and sheet asphalt paving Rockaway Beach Blvd. from Beach 116th to 122nd Sts., from Sicilian Asphalt Paving Co., 41 Park Row, New York City, $8,618; and granite block paving Rockaway Beach Blvd. from Beach 75th to Beach 110th Sts., from Peninsula Contg. Corp., $19,109. Noted Apr. 30.

N. Y., New York—New York State Bridge & Tunnel Comn., and New Jersey Interstate Bridge & Tunnel Comn., Room 3004 Woolworth Bldg., granite block with asphalt mastic joint filler on sand-cement cushion, paving Holland Tunnel, Contr. 10, from W. T. Fitzgerald 547, East 45th St., $329,655. Noted Apr. 16.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., May 6, from D. J. McCarthy, 88 Audubon Ave., granite block repaving Dover St. $36,255, Little West 12th St. $23,781; from W. J. Fitzgerald, 547 West 45th St., West 12th St. from Greenwich to West Sts., $26,995; from C. Helbock, 633 Wales Ave. granite block paving 2nd Ave. $40,394, widening and sheet asphalt repaving 5th Ave. $23,189; from O. D. Beckwith, 2875 Bway., grading Riverside Dr. $58,285. Noted Apr. 30.

New Jersey—State Hy. Dept., Trenton, May 4, street asphalt paving 7,170 sq.yd. Route 6, Sect. 16, Gloucester Co., from Union Paving Co., 30th and Locust Sts., Phila., Pa., $32,622; concrete paving 43,240 sq.yd. Route 18, Sect. 1, Bergen Co., from J. J. McGarry, Edgewater, $299,773. Noted Apr. 23.

Pennsylvania—State Hy. Dept., Harrisburg, May 2 (**A means Application and R means Route**) from General Paving Co., B. & B. Bldg. Allentown, rein.-con. paving 22,707 ft. **A.** 3283, Carbon Co., $155,411, from G. I. Thompson Co., Clearfield, 12,751 ft. **R.** 221, Blair Co., $112,997, from Frey Constr. Co. Inc., 50 West Phila. St., York, 12,153 ft. **R.** 140, **A.** 2924 Sect. 2, Gauphin Co., $99,375, and bituminous surface course on concrete, or one course concrete paving, 1,800 ft. **A.** 3346 and 3347, Erie Co., $15,469, from Johnson, Drake & Piper Inc., 834 Soo Line Bldg., Minneapolis, Minn. rein.-con. paving 28,078 ft. **R.** 67, **A.** 3175, and 3032, Armstrong and Indiana Counties, $256,497, from R. D. Richardson Constr. Co., 828 Connell Bldg., Scranton, 4,373 ft., **A.** 3219, Berks Co., $50,637, from J. Battenfield Sons Co., 223 Martins Bldg., Federal St., N. S., Pittsburgh, 6,312 ft. **R.** 302 Sect. 2, Westmoreland Co., $56,780, from H. W. Horst Co., Horst Bldg., Rock Island, Ill., 59,690 ft. **R.** 199 Sect. 1, Schuylkill Co., $652,037, from Metzger, Kirkpatrick & Wallis, Emporium, 3,419 ft., **R.** 105 Clinton Co., $113,840, from Elder & Merriman, Ebensburg, 40,136 ft. **R.** 262 Sect. 4, Indiana Co., $342,850. Noted Apr. 23.

Maryland—State Roads Comn., Baltimore, from Thomas, Bennett & Hunter, Westminster, concrete shoulders on 11.25 mi. Contr. Cl-21A, Carroll Co. $112,320, 4.75 mi. Contr. P-12A, Prince George Co. $49,896, from Phillips & Neal, Hurlock, 1.64 mi. Contr. D-6A, Dorchester Co. $8,083, 8.2 mi. Contr. WO-5A, Worcester Co. $37,812, from Huse & Knight, 2800 Montebello Ave., 8.5 mi. Contr. AB-1A, Anne Arundel Co., $83,022; from P. B. Phillips & Bros., Salisbury, concrete paving 1.44 mi. Contr. WI-27, Wicomico Co. $54,937, from Ward & O'Connell, New Amsterdam Bldg., 2 mi. Contr. HO-45, Howard Co. $67,575; from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., Baltimore, sheet asphalt paving 0.52 mi. Contr. BC-53, Baltimore Co., $119,278; from St. Marys Constr. Co., Mechanicsville, graveling 1.25 mi. Contr. SM-34, St. Marys Co., $8,764. Noted Apr. 23.

Virginia—State Hy. Comn., Richmond, Apr. 28, concrete surfacing 1.425 mi. Route 31, Project F-372-B, Spotsylvania Co., from Woolfolk & DeJarnette, Princeton, W. Va., $40,731; bituminous macadam surfacing 1.645 mi. Route 28, Project F-301-A, Albermarle Co., incl. 32½ ft. rein.-con. bridge over Hardware River, from McKenney & Van Doren, 1439 Fort Ave., Lynchburg, $43,505; improving 3.003 mi. Route 14, Project F-259-A, Pittsylvania Co., from R. H. Langhorne, Evington, $17,714; threee 45 ft. rein.-con. beam span bridge over Little River, Route 31, Project F-358-G, Hanover Co., from Clark & Lewis, Luray, $14,490. Noted Apr. 16.

La., Shreveport—Grading, curbing and Warrenite paving 1.5 mi. Felzer Ave., from Southern Roads Co., Shreveport, $112,000.

Michigan—State Hy. Dept. at office Comrs. Saginaw Co., Saginaw West Side, Apr. 30, grading 5.802 mi. Federal Aid Project 92, A2, and 2.587 mi. Sects. B1 and B3, from W. J. Meagher, Bay City, $219,854 and $132,495 respectively. Noted Apr. 23.

Mich., Detroit—From Detroit Asphalt Paving Co., Free Press Bldg., sheet asphalt paving 4,175 sq.yd. Renville Ave. $19,466, 3,440 sq.yd. Fournier Ave. $15,316, 13,405 sq.yd. Flanders Ave. $58,968, 8,800 sq.yd. Moran St. $38,916, 3,855 sq.yd. Girardin Ave. $17,720, 1,010 sq.yd. Kentucky Ave. $4,686, 1,005 sq.yd. Indiana Ave. $4,679, 9,025 sq.yd. Kilbourn Ave. $40,820, 9,050 sq.yd. Traverse Ave. $40,088; from Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 4,980 sq.yd. Margaret Ave. $22,977, 4,030 sq.yd. Orleans St. $18,275, 4,005 sq.yd. Greeley Ave. $18,404, 4,030 sq.yd. Riopelle St. $18,407; from Cleveland Trinidad Paving Co., 402 Hammond Bldg., 5,675 sq.yd. Ironwood Ave., Sect. 2 $26,741.

Mich., Port Huron—St. Clair Co., graveling 4.5 mi. Assessment Dist. Rd. 30, and 2.75 mi. Assessment Dist. Rd. 77, from Parker & Cochrane, Almont, $56,500 and $30,000 respectively; 12.5 mi. Assessment Dist. Rd. 35, from C. McComb, Algonac, $176,800.

Mich., St. Johns—Clinton Co., graveling 5 mi. County Assessment Dist. 18, Sect. 1, from C. E. VanDyne, Clare, $52,421; and 5 mi. Sect. 2 of above road, from R. E. Bailey, Corunna, $46,948.

Wis., Rhinelander—City, Apr. 24, paving 56,000 sq.yd. various streets, from Welsh Paving Co., 703 1st Natl. Soo Line Bldg., Minneapolis, Minn., vibrolithic concrete, $166,661; from F. P. Coughlin Co., 130 North Wells St., Chicago, Ill., bitulithic, $142,770; from Bridges Paving & Constr. Co., Wabash, Ind., asphaltic concrete, $100,244, sheet asphalt, $114,244; from Ford Paving Co., Cedar Rapids, Ia., rein.-con., $159,212. Noted Apr. 16.

Nevada—State Hy. Comn., Carson City, grading and gravel surfacing 10.25 mi. road from point 12 mi. east of Dunphy to east county line, from C. A. Robinson, Twin Falls, Idaho, $101,390; 12.2 mi. road from Dunphy to point 12 mi. east, both in Eureka Co., from R. L. Reed, Jerome, Idaho, $80,751.

CONTRACTS AWARDED

Mass., Boston—Park Dept., 33 Beacon St., widening and resurfacing roadway in Franklin Park, to J. C. Coleman & Sons, 1620 Tremont St., Roxbury, $50,360. Noted May 14.

Rhode Island—State Bd. Pub. Wks., Providence, concrete paving 1.72 mi. Contr. 2504, Federal Aid Project 26, in West Greenwich, to A. D. Bridges Sons, Inc., Hazardville, Conn., $95,721. Noted May 7.

Rhode Island—State Bd. Pub. Wks., Providence, 250,000 gal. asphaltic oil or refined tar to certain sections of state roads, to C. C. Plumb Contg. Co., 327 Howard Bldg., Providence, $0.084 per gal. total $21,000. Noted May 7.

N. Y., New York—J. Miller, pres. Manhattan Boro. Municipal Bldg., granite block repaving 128th St., to St. George Granite Co., 90 West St., $42,099; sheet asphalt repaving 67th St. and Lexington Ave., to Sicilian Asphalt Paving Co., 41 Park Row, $18,982 and $12,171 respectively, 119th St. to Interboro Asphalt Co., 2306 Creston Ave., $9,491, 2nd Ave., to J. Meehan & Son, Cortlandt St. $15,778, West Ave., to Uvalde Asphalt Paving Co., 1 Bway., $24,[illegible]. Noted May 7.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., repairing wood block, granite block, and oak block pavements in railroad area, to C. Helbock Co., 633 Wales Ave., $42,400; repairing asphalt pavement in railroad area, to Cleveland Trinidad Paving Co., Flushing, $72,300. Noted Apr. 16.

Pennsylvania—State Hy. Dept., Harrisburg, (**R. means Route and A. means Application**) to P. C. Kroeck, 1000 Humboldt Ave., Milwaukee, Wis., improving R-294, A-3355, Mercer Co., 89,900 sq.yd. rein.-con. $3.04 per sq.yd. 27,830 cu.yd. unclassified excav. $1.10, 660 cu.yd. borrow $1.10, total $363,238; to Winter & Yaple, Erie, R-236, A-3143, McKean Co., 18,217 sq.yd. rein.-con. $3.10, 5,732 cu.yd. unclassified excav. $1.05, 3,152 cu.yd. borrow $1.05, total $77,596; to E. Dunn Co., Inc., Greensburg, R-288, Sect. 3, Fayette Co., 17,570 sq.yd. rein.-con. $3.45, 7,600 cu.yd. unclassified excav. $1.20, total $89,697; to W. M. Moser, Brookville, R-161, Northumberland Co., 2,371 sq.yd. and 11,156 sq.yd. concrete, $3.30 and $3.60 per sq.yd. respectively, total $77,705. Grand total $608,236. Noted May 7.

Pennsylvania—State Hy. Comn., Harrisburg (**R. means Route and A means Application**) rein.-con., paving 18,273 sq.yd., **R.** 242, Sect. 1, A. 2897 Washington Co., to A. G. Rothey, Elizabeth, $3.51 per sq.yd., total $97,687, 4,772 sq.yd. **R.** 259 Sect. 1, **A.** 3268, Northumberland Co., to R. C. & I. T. Fiss, Shamokin Dam, $3.50 per sq.yd., total $23,665, 15,800 sq.yd., **A.** 692, Dauphin Co., to Continental Contg. Co., Knickerbocker Bldg Baltimore, $3.28 per sq.yd., total $83,795, 22,410 sq.yd., **R.** 174, Susquehanna Co., to Lincoln Constr. Co., Strafford, $3.80 per sq.yd. total $95,617, 83,700 sq.yd., **R.** 164 Sect. 2, Monroe Co., to Nichell-Grahl Constr. Co., Butler, $2.90 per sq.yd. total $426,424, 102,200 sq.yd., **R.** 232 and 365, Wyoming Co., to Winston & Co., Inc. Scranton, $3.15 per sq.yd. total $599,917; grading etc., 141,700 cu.yd., **R.** 7 Sect. 2, Pike Co., to W. H. Palmer Inc., Bethlehem, $1.25 per cu.yd. total $270,875. Grand total $1,600,980. Noted Mar. 12 and 26.

Pa., Phila.—Bureau Highways, Dept. Pub. Wks., to Butler & Orlando, 52nd and Webster Sts., grading Brist, Elmwood, 74th, 75th and 76th Sts. $16,841, to T. V. Monoghan, Water St. and Clarkson Ave., Camac, Champlost, Marvine, Medary, Nedro, Spencer, 10th and 13th Sts. $27,552, Griffith, Lansing, Large, Solly and Summerdale Sts. $18,034, Harrocks, Large, Rutland and Sanger Sts. $13,792, to R. B. Wenner, 2313 Walnut St., Culp, Fairthorne, Fowler, Harner, Lawn, Manti, Newland, Silverwood and Sunset Sts. $9,968, Gowen St. $3,505, Mt. Airy St. $1,303, 18th St. $3,183, to Morrisey Bros., 4347 North 7th St., Godfrey, Marshall, Spencer, 6th and 7th Sts. $17,203, to E. A. Mullen, Inc., 5512 Vine St., Malvern, 57th and 58th Sts. $3,206, to F. Mark Contg. Co., 2820 North 21st St., 15th St. $2,779; to Union Paving Co., 305 Locust St., asphalt paving Belmar St. $4,470, Flanders and 67th Sts. $14,575, Georges Lane $8,592, Greenway St. $9,332, Mascher St. $2,559, Rand St. $1,883, redressed granite block repaving Bridge St. $35,724, 18th St. $17,730; to Barber Asphalt Co., Land Title Bldg., 30th and Race Sts., asphalt paving Marston St. $3,267, Wister St. $16,077, 16th St. $5,509, asphalt repaving Haverford St. $111,333; to M. J. McCrudden, 1134 Real Estate Trust Bldg., asphalt paving Milne St. $9,067, redressed granite block repaving Glenwood St. $10,151; to Eastern Asphalt Paving Co., Pennsylvania Bldg., asphalt paving Nassau, Oxford and 57th Sts. $32,717, redressed granite block repaving Richmond St. $65,826, Sansom, Walnut and 2nd Sts. $67,574, 16th St. $12,924; to Mack Paving & Constr. Co., Nicetown Lane, asphalt paving Tower St. $2,565, 16th St. $9,778, 28th St. $20,130; to San Oil Co., Finance Bldg., oil for Mosquito Elimination $1,750; to Hedley Good Roads, Franklin Trust Bldg., road oil on various streets $13,215. Grand total $676,848.

Maryland—State Roads Comn., Baltimore, concrete paving 3.88 mi. Contr. Ce-48, Cecil Co., to Sutton Co., Jefferson Bldg., Phila., Pa. $113,402, 2.26 mi. Contr. T-22, Talbot Co., to Kauffman Constr. Co., Denton $29,450, 7.5 mi. Contr. G-29, Garrett Co., to Tri-State Eng. Co., Cumberland, $242,832, 0.78 mi. Contr. Ba-52, Baltimore Co., to Christhilf & Ensey Co., 1625 Ridgley St., Baltimore, $20,107; graveling 2 mi. Contr. SM, St. Marys Co., to J. A. Wilmer, La Plata, $13,542; concrete shoulders on 11 mi. Contr. W-9A, Washington Co., to Development & Constr., Co., Amer. Bldg., Baltimore, $114,-

Streets and Roads (Continued)

231, 8.75 mi. Contr. A1A, Allegany Co., to Cumberland Constr. Co., Cumberland $46,720, 4 mi. Contr. M-10-B, Montgomery Co., to J. H. Sieling, Laurel $41,454, 11 mi. Contr. H-1-A, Harford Co., to T. P. Murray Towson $105,450; grand total $727,-188. Noted May 7.

Md., Baltimore — Bd. Awards, grading, curbing and asphalt paving 8,480 sq.yd. Contr. 279 OANA, to Tydings Marine Co., 2 East Lexington St., $23,710; 13,550 sq.yd. Contr. 278 OV, to Amer. Paving Co., Montebello Ave., $67,304. Noted May 7.

S. C., Bennettsville—Marlboro Co., clay gravel surfacing 9.3 mi. State Project S-560, to E. K. Turner, Florence, $53,118. Noted Apr. 16.

S. C., Walterboro — Colleton Co. Rd. Comn., sand clay surfacing 17 mi. State Project S-432, to C. Wadsworth, Concord, N. C., $46,974; and Sate Project S-574, to J. L. Carroll, Columbia, $64,542.

Georgia—State Hy. Dept., East Point, concrete surfacing 4.403 mi. Project 399-A, Coweta Co., to Davis Constr. Co., Walton Bldg., Atlanta, $103,589; asphalt surfacing Project 117, Gwinett Co., to S. E. Finley, 212 West North Ave., Atlanta, $18,838; improving Forest Rd.-Toccoa Basin, to J. H. Moore & Son, Dahlonega, $40,476; top soiling 3.232 mi. Project 432-A, Habersham Co., and 3.645 mi. Project 402-A, Franklin Co., to M. R. Woodell, 486 Euclid Ave., Atlanta, $20,082 and $17,215 respectively; grading 3.967 mi. Project 404-C, Muscogee Co., to E. M. Beckham, Perry, $34,558; gravel surfacing 5.663 mi. Project 204, Echols and Lowndes Counties, to Carter Constr. Co., Chattanooga, Tenn., $22,328; surface treating 2.5 mi. graveled road, Project 282, Lowndes Co. and rock asphalt surfacing 1 mi. Project 91, also surface treating 6 mi. graveled road Project 357, Lowndes Co., to R. J. Freeman, Decatur, $8,673 and $29,462 respectively. Grand total $304,211. Noted Apr. 16.

Fla., Tampa — Hillsborough Co., to W. Bryson Paving Co., Jacksonville, **(e. e. means engrs. est.)** concrete curbing and ½ in. sheet asphalt on 3 in. sand asphalt paving 13,222 sq.yd. portions of Greenfield and Lockmoor Sts. $39,000, e. e. $38,000; 15,740 sq.yd. Thorney Lea Lane, Ridgedale Rd., Burlingame and Glen Arven Sts., $40,-500, e. e. $40,000; 9,852 sq.yd. Inverness, Missio i Hills, Bonnie Brae and Fairmont Circle Sts., $25,500, e. e. $25,000; 9,500 sq.ft. Willnolck, Avondale and Greencastle Sts., $25,500, e. e. $25,000; 11,500 sq.yd. Glenoaks, Belle Terre, Kingwood, Sunningdale, Midlothian and Ridgedale Sts., $26,-500, e. e. $26,000; 10,667 sq.yd. Bon Air, Belle Clain Ave., and Bell Clain Pl., $26,500, e. e. $26,000; 9,266 sq.yd. Burlingame, Belvidere Oval, and Glen Arven Sts., $25,-500, e. e. $25,000; 11,155 sq.yd., Dunwoodie, Woodmont, Greenfield and Shadowlawn Sts., $26,000, e. e. $26,000; 11,467 sq.yd. St. Andrews and Glen Oaks Sts., $26,500, e. e. $26,000; 17,411 sq.yd. Clifton, Brentwood, St. Augustine and Belleview Sts., $43,300, e. e. $42,000; 11,999 sq.yd. Fern Cliff, Pinehurst and Biltmore Sts., $26,500, e. e. $26,000; 7,300 lin.ft. Orange and Terrace Circles, Bway., 5th and 8th Sts., $25,-000, e. e. $25,000; 15,627 Riverhills Dr., $41,267, e. e. $40,000; all foregoing in Temple Terrace Estates. Grand total $397,547.

Ala., Birmingham — City, **(e. e. means engineers estimate)** asphaltic concrete surfacing 4 blocks 5th Ave. and 8 blocks 32nd St., both 40 ft., to Dunn Constr. Co., Lincoln Life Bldg., $33,258 and $79,443 respectively, e. e. $32,500 and $80,000 respectively; Warrenite bitulithic surfacing 7 blocks 31st St., 40 ft., to H. N. Bowdry, Farley Bldg., $56,-425, e. e. $56,500; concrete surfacing 10 blocks 29th Ave. N, to Dietz Concrete Constr. Co., Empire Bldg. $50,000, e. e. $50,000, 20 blocks between railroad tracks and 18 in. on each side 32nd St., to Gamble Constr. Co., Empire Bldg., $30,723, e. e. $31,000; bitulithic surfacing 6 blocks 18th St., 40 ft., to Independent Paving Co., Amer. Trust Bldg., $20,699, e. e. $21,000; asphalt surfacing 3 blocks 9th St., 50 ft. and 3 blocks 8th and 9th Aves., 30 ft., to Federal Asphalt Paving Co., Brown-Marks Bldg., $18,104 and $18,104 respectively, e. e. $18,-104 and $18,500 respectively; concrete sidewalks on 1 block 2nd Ave. W., 40 ft., to J. Fromhold, 1808 Lee Ave., $3,233, e. e. $3,500; grading 20 blocks various streets, 30, 40 and 50 ft., to Tuscaloosa Constr. Co., Tuscaloosa, $175,000; cement sidewalks on 1 block 1st Court, 50 ft. and macadam surfacing 3 blocks 12th Ave., to L. J. Mullarky, 2400 Ave. J (Ensley) $1,567 and $8,151 respectively, e. e. $1,600 and $8,200 respectively. Grand total $493,704.

La., Amite—Tangipahoa Parish, graveling roads in Rd. Dist. B, Wards 1 and 2, 5,547 mi., to Williams Bros., Osyka, Miss., $15,-096; 7.542 mi. to Kentwood Gravel Co. Kentwood, $26,496; 2.318 mi., to Phares, Whetstone & Russell, Woodville, Miss., $5,126; 6.704 mi., to J. H. Newton Co., Amite $23,645. Grand total $70,272.

La., Shreveport — Paving 5 streets in Glenwood Park, to E. J. Deas, Shreveport.

Ohio — Dept. Highways & Pub. Wks., Columbus, to Stringer & Stringer, Wheeling Bank & Trust Bldg., Wheeling, W. Va., grading, bridging and concrete paving 0.534 mi. Sect. "Yorkville" Ohio River Rd. $19,-036, 1.494 mi. Sect. "A-1" Ohio River Rd. $55,319, also bridge on Sect. "Yorkville" $18,161, all Belmont Co.; to Newell & Smith, Defiance, rein.-con. paving 1.478 mi., Sect. "B" Roundhead-Ada Rd. $40,574, and 2.21 mi. Sects. "G and McGuffey" Roundhead-McGuffey Rd., $58,824, both Hardin Co. Noted Apr. 23.

O., Akron—W. F. Peters, dir. Pub. Serv., to T. E. McSchaffrey Constr. Co., 173 South Forge St., vitr. brick paving, etc. 32,950 sq.yd. Palisades Dr. et al $263,640, 10,850 sq.yd. Merriman Rd. $91,526; to Columbus Asphalt Paving Co., 304 Buckeye Bldg., 16,200 sq.yd. Stanton Ave et al $128,055, 10,510 sq.yd. Ackley St. et al $93,877, to Thorpe Constr. Co., 231 Society for Savings Bldg., Cleveland, 16,000 sq.yd. Englewood Ave., et al $92,531; to L. Crano & Co., 274 Crosby St., sidewalks, etc. on 33,000 sq.ft. Patterson Ave. et al, $28,718. Grand total $698,237. Noted Apr. 9.

O., Akron—W. F. Peters, dir. Pub. Serv., **(e. e. means engrs. est)**, to Thorpe Constr. Co., 231 Society for Savings Bldg., Cleveland, grading, stone curbing, concrete sidewalks and vitr. brick paving, etc., 1,500 sq.yd. Robinette and Luedella Courts $10,-344 e. e. $11,500, grading concrete sidewalks and vitr. brick paving, etc. 975 sq.yd. Courteney Pl. et al, $6,346 e. e. $6,600; to Bonner Co., 32 South College St., grading and laying concrete sidewalks on 13,500 sq.ft. Julien Ave., $6,019 e. e. $6,400, 6,100 sq.ft. Hudson Ave., $4,333 e. e. $5,500, grading, concrete guttering and concrete sidewalks etc. on 3,650 sq.ft. Bina Ave., $1,797 e. e. $2,500, 12,200 sq.ft. Sherman and Baird Sts., $5,750 e. e. $7,500; to T. E. McShaffrey Constr. Co., 173 South Forge St., grading, curbing, guttering and sheet asphalt paving 5,000 sq.yd. Bowery St., $33,003 e. e. $41,000, grading, stone curbing, sidewalks, vitr. brick guttering and sheet asphalt paving 860 sq.yd. North Case Ave., $5,638 e. e. $6,500, grading, stone curbing and vitr. brick paving, etc. $1,720 sq.yd. South Walnut St., $11,736 e. e. $13,500, 4,035 sq.yd. Avon St., $22,228 e. e. $25,000, grading, stone curbing, laying sidewalks and vitr. brick paving 11,525 sq.yd. North Case Ave., $72,159 e. e. $80,000, grading, paving, repaving and resurfacing Wooster Ave., 320 sq.yd. vitr. brick and 2,400 sq.yd. sheet asphalt, $7,388 e e. $10,000; to McAlonan Bros., 506 Woodland Ave., grading, curbing, laying sidewalks and vitr. brick paving 990 sq.yd. Fairfield Ave., $9,325 e. e. $9,500; to Guran & Brancich, 429 Matthews St., grading and laying 4 in. concrete sidewalks on 13,800 sq.ft. Alexander St., $7,327 e. e. $8,500. Grand total $203,393. Noted Apr. 16.

O., Cleveland—Improving (1) Diamond Ave. (2) West 61st St. (3) West 33rd St. (4) East 161st St. (5) 168th St., (1 to 5 inclusive) involves 9,454 sq.yd. vitr. brick, 2,775 sq.yd. sheet asphalt, 7,770 lin.ft. stone curbing, 7,810 lin.ft., 4 in. drain tile gutter, and 7,500 cu.yd. earth excav. (6) Wayside Rd. (7) Adelaide Ave. (8) Champion Ave. (6 to 8 inclusive) involves 6,500 sq.yd. sheet asphalt, 4,475 lin.ft. stone curbing, 4,850 lin.ft. 4 in. drain tile guttering and 7,600 cu.yd. earth excav. (9) Cliffview Rd. (10) Hillview Rd. (9 and 10) involves 9,050 sq.yd. vitr. brick, 6,150 lin.ft. stone curbing, 6,590 lin.ft. 4 in. drain tile guttering, 4,100 cu.yd. earth excav., to Garland Bros., 5806 Franklin Ave. (1) $9,382; to Roehl Bros., 7002 Denison Ave. (2) $8,393; to W. E. McHugh, West 73rd St. and Wheeling and Lake Erie R.R. tracks (3) $5,302; to Gould & Maybach, 16311 Saranec Rd. (4) $14,634 (5) $35,242; to H. G. Herring, c/o Pavers Exchange, The Arcade (6) $58,211 (9) $25,471 (10) $26,955; to Cleveland Trinidad Paving Co., The Arcade (7) $3,161 (8) $3,077. Noted Mar. 19. Grand total $190,128.

O., Canton—Brick paving 3rd St. N. E., and improving Warner Rd. N. E., to H. Corl, Genl. Del., $29,056 and $26,738 respectively, engrs. est. $30,000 and $25,000 respectively; Clyde Pl. S. W., to W. H. Stanton, Genl. Del., $28,380, engrs. est. $30,000; curbing and laying sidewalks on 7th Ave. S. E., to Canton Sand & Gravel Co., Genl. Del., $25,864, engrs. est. $30,000. Grand total $110,038. Noted Oct. 16.

O., Cincinnati—City, sidewalks, curbing and sheet asphalt repaving, etc. 4,400 sq.yd. Court St. and granite block paving 3,200 sq.yd. Augusta St., to Hinkel & Sullivan, 105 Bell Block, $22,392 and $33,279 respectively. Engrs. est. $28,947 and $34,839 respectively. Noted May 7.

O., Cincinnati—Hamilton Co., 165,000 gal. tar, Grade 1, 227,000 gal. heavy oil, and 10,420 cu.yd. sand on various roads, to J. A. Nickoson, Saylor Park Sta., $74,909. Engrs. est. $95,220. Noted May 7.

O., Cleveland—Cuyahoga Co., brick paving State Rd. 8, to Freshwater Constr. Co., Davis and Farley Bldg., $354,448. Noted May 7.

O., Mansfield—H. C. Lynch, dir. Pub. Serv. & Safety, to Brooks Constr. Co., Ft. Wayne, Ind., asphalt paving Lexington Ave. $11,565, Benton St., $1,409 and Bowman St. $5,685; to F. Gandert & Son, Mansfield, concrete paving Poplar St., $5,674, Henry St. $4,583, brick paving Fair St. $3,785, Flint St. $5,625; to H. E. Johnson, Mansfield, brick paving West 3rd St. $6,485, Sherman Pl. $6,439, Helen Ave. $10,903; to G. B. Herring & Son, Mansfield, brick paving Willis Ave. $3,193, Dickson Ave. $6,764; to Andrews Asphalt Paving Co., Cincinnati, sheet asphalt paving Highland Ave. $20,292. Grand total $92,402. Noted Apr. 9.

Michigan — State Hy. Dept., Lansing, grading 5.802 mi. Federal Aid Project 92, A2, Saginaw Co., and 2.587 mi. Federal Aid Project 92B and B3, Saginaw Co., to W. J. Meagher, Bay City, $222,861 and $133,850 respectively; concrete paving 3.578 mi. Federal Aid Project 67A and A2, Washtenaw Co., by day labor $99,502.

Mich., Ferndale — To R. D. Baker Co., 1631 Elmhurst Ave., Detroit, rein.-con. paving 200,000 sq.yd. Admore Dr., Bennett E., Webster, Saratoga E., Troy, Kenton, Maplehurst, Spencer, Saratoga, Breckenridge, Lewiston, Pearson, Withington, Hazelhurst, College, Laprairie, Courbourne, Marshall, LeRoy, Beaufield, Fielding, Bermuda, St. George, St. Lewis and Saratoga W. Aves., $607,000. Noted Jan. 15.

Mich., Grand Haven — Ottawa Co., concrete paving 4 mi. county road to Charlevoix Abstract & Eng. Co., Charlevoix, $79,000.

Mich., Grand Rapids—Improving Hobart St., and grading and paving Sheldon Ave., to McDermott & Cooper, Grand Rapids, $9,468 and $48,998 respectively, Marion Ave. and Veto St., to Grand Rapids Asphalt Co., Grand Rapids, $13,757 and $16,198 respectively; Charles and Chatham Aves., and Jackson St., to W B. Chalmers Co., 501 Grand Rapids Savings Bank Bldg., $3,625, $15,314, and $37,574 respectively.

Mich., Sandusky—Sanilac Co., graveling Assessment Dist. Rd. 5, to Whitely & Schwaderer, Sandusky, $52,680, Assessment Dist. Rds. 8 and 19, to Belknap & Snyden, Mayville, $9,886, and $26,570 respectively.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, 18 ft. concrete surfacing 7.91 mi. Route 19, Sects. 24 and 25, Lake and McHenry Counties, to Powers Thompson Constr. Co., Joliet, $220,995; 9.72 mi. Route 3, Sect. 28, Mercer and Warren Counties, to Cameron, Joyce & Co., Keokuk, Ia., $198,007; 5.14 mi. Route 16, Sect. 20, Montgomery Co., to Smith Bros., Inc., Amer. Exch. Bldg., Dallas, Tex., $92,-952; 5.37 mi. Route 24, Sect. 5, Christian Co., to Stevens Bros., St. Paul, Minn., $106,-224; 5.01 mi. Route 23, Sect. 29, De Kalb Co., and 6.48 mi. Route 23, Sect. 31, De Kalb and La Salle Counties, to Henkel Constr. Co., Mason City, Ia., $71,768 and $123,119 respectively; 11.3 mi. Route 39, Sects. 12 and 13, Piatt and Champaign Counties, to Divine Constr. Co., Watseka, Ill., $288,000. Grand total $977,946. Noted Dec. 31 and Apr. 2.

Ill., Harvey—Grading, curbing and concrete surfacing 35,000 sq.yd. various streets, to A. Ward & Sons, Oak Glen, $124,475. Noted Apr. 2.

Wis., Fond du Lac—Fond du Lac Co. Highway Comn., improving Wolf Lake-Marytown-Co. Line Rd., 1,400 cu.yd. earth, 1,800 cu.yd. loose and 155 cu.yd. solid rock excav., 1,105 cu.yd. borrow, etc., to Knoke Bros., New London, $19,823; and Brenner Bridge, two 30 ft. concrete deck girders over Sheboygan River on County Trunk W, to Moore & Moore, Marinette, $5,647. Noted Apr. 16.

Wis., Janesville — Commissioner Pub. Wks, one course rein.-con. paving various streets, to Matthes Coal & Constr. Co., 1810 Bowditch St., Davenport, Ia., $224,193. Noted Apr. 9.

Wis., Wauwatosa — Bd. Pub. Wks., to Jacobus & Winding Concrete Constr. Co., 1 State St., improving Hillside Lane, 2,200 cu.yd. excav. at $0.50 per cu.yd., 2,930 sq.yd. concrete paving at $2.29, 4th Ave., 4,875 cu.yd. excav. $0.39 1,860 sq.yd. concrete paving $2.29, Rogers Ave., $2,350 sq.yd. concrete paving $2.34, and West Center St., 4,550 sq.yd. concrete paving $2.34; to Tex Constr. Co., 446 68th Ave., West Allis, grading 2,000 cu.yd. Rogers Ave. and 8,000 cu.yd. West Center St. at $0.38 per cu.yd.

Wis., Whitefish Bay (Milwaukee P.O.)—W. Volkmann, village clk., grading and concrete paving 19,029 sq.yd. various streets, to Reisinger & Co., 464 Oakland Ave., Milwaukee, $47,955. Noted Apr. 16.

Streets and Roads (Continued)

Wis., Shorewood (Milwaukee P. O.)—T. Olsen, village clk., improving various streets, 24,000 sq.yd. concrete paving to Dean Constr. Co., 382 East North Ave., at $2.40 per sq.yd.; and 9,000 cu.yd. excav., to Kroening Constr. Co., 39th Ave. and Mitchell St. at $0.50 and $0.70 per cu.yd. Noted Apr. 16.

Ia., Marion—Linn Co., grading 6.933 mi. Federal Aid Project 225, 138,428 cu.yd. excav., etc., to B. C. Johnson, Redwood, Minn., $35,126; drainage work on Red Ball Highway, to A. Elkwald, Emmetsburg, $2,962. Noted Mar. 19.

Minn., Buffalo—E. R. Anderson, aud. Wright Co., improving 7.4 mi. Job 2501, State Rd. 9, 85,361 cu.yd. earth, 225 cu.yd. loose and 225 cu.yd. solid rock excav., 31,957 cu.yd. overhaul, to Volden Bros., Milan, $20,923 and 3,156 lin. ft. 15- to 48-in. corrugated metal culverts, to Berger Mfg. Co., 1701 North-east Bway., Minneapolis, $5,000. Noted Apr. 9.

Minn., Wabasha—Comrs. Wabasha Co., F. J. Appel, aud., grading 70,000 cu.yd. Job 2501, State Rd. 2, 34,000 cu.yd. Job 2402A, State Rd. 8, and 6,000 cu.yd. Job 2502, to Nolan Bros., 18 2nd St. N., Minneapolis, $29,418. Noted Apr. 2.

Kan., Alma—Wabaunsee Co. will grade 13.295 mi. Southern Trail, 26 ft., by day labor. F. Itz, Alma, engr. Noted Apr. 2.

Kan., Kingman—Concrete bithulithic surfacing, curbing, sewering, etc. 14,096 sq.yds. Main St., to H. J. Taylor, Belleville, $41,307. Noted Apr. 23.

Kan., McPherson—For 3 in. brick on 5 in. concrete surfacing etc. 6,669 sq.yd. various streets to Geiger & Rutherford, Leavenworth, $26,488.

Neb., Minden—Vibrolithic concrete paving 13 blocks streets in various districts, to Abel Constr. Co., 318 Terminal Bldg., Lincoln, $45,286.

Neb., Nebraska City—City Clerk, asphaltic concrete paving 15,700 sq.yd. streets in Dist. 27, to Abel Constr. Co., 318 Terminal Bldg., Lincoln. Engrs. est. $63,200.

Neb., Omaha—F. Dewey, city clk., concrete paving 22,775 sq.yd. Rd. 31, to J. J. Parks Co., Elks Bldg., at $2.10 per sq.yd., 28,675 sq.yd. Rd. 48, to Metz Constr. Co., Omaha, $2.03 per sq.yd.; grading 17,000 cu.yd. Rd. 54, to G. W. Condon, 510 Farnam Bldg., at $0.219 per cu.yd.

Neb., Scottsbluff—Concrete paving 36,000 sq.yd. various streets in Dist. 4, to A. C. Smith, Scottsbluff, $90,000.

South Dakota—State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project)** to R. P. England, Murdo, grading 9.8 mi. F. A. P. 187C, Charles Mix Co., 425 cu.yd. solid, 4,202 cu.yd. loose rock and 75,404 cu.yd. common excav., etc. $39,326, 6.78 mi. F. A. P. 189B, Charles Mix Co., 54,543 cu.yd. common excav., etc. $21,760, to Tobin & Maloney, Madison, 12.05 mi. F. A. P. 188D, McCook Co., 89,274 cu.yd. common excav., etc. $33,777, graveling 7.47 mi. F. A. P. 50B, Sanborn Co., 11,211 cu.yd. gravel, etc. $7,873, 10.92 mi. F. A. P. 145, Beadle Co., 15,762 cu.yd. gravel, etc. $13,359, 9.03 mi. F. A. P. 186A, Davison Co., 13,546 cu.yd. gravel, etc. $10,317, 10.23 mi. F. A. P. 167A, Bon Homme Co., 15,351 cu.yd. gravel, etc. $12,565; to Diamond Eng. Co., Grand Island, Neb., grading 18.27 mi. F. A. P. 185E, Lyman Co., 816 cu.yd. loose rock and 93,557 cu.yd. common excav., etc. $42,528, to H. L. Hanson, Aberdeen, grading 11.63 mi. F. A. P. 191B, Clark Co., 1,114 cu.yd. loose rock and 106,954 cu.yd. common excav. $33,513, 10.8 mi. F. A. P. 171E, McPherson Co., 450 cu.yd. loose rock and 83,578 cu.yd. common excav., etc. $31,378, to E. B. O'Connell Constr. Co., Leola, 11.99 mi. F. A. P. 192A, McPherson Co., 825 cu.yd. solid and 4,005 cu.yd. loose excav., rock 97,047 cu.yd. common excav., etc. $32,565, to C. W. McNamara, Sioux Falls, 13.13 mi. F. A. P. 191F, Clark Co., 225 cu.yd. solid, 620 cu.yd. loose rock and 104,124 cu.yd. common excav., etc. $32,226, to Geddes & Miller, Ellendale, 8.07 mi. F. A. P. 188C, McCook Co., 285 cu.yd. rock and 56,622 cu.yd. common excav., etc. $29,217; to Sheehan & Joyce, Sioux Falls, graveling 6.45 mi. F. A. P. 104, Douglas Co., 9,682 cu.yd. gravel, etc. $6,201, 11.74 mi. F. A. P. 135, Douglas Co., 17,614 cu.yd. gravel, etc. $12,698, 6.88 mi. F. A. P. 147, Hutchinson Co., 10,318 cu.yd. gravel, etc. $5,743, to R. R. Wiley, Summit, 13.64 mi. F. A. P. 127 Hughes-Sully Counties, 16,368 cu.yd. gravel, etc. $15,345, 12.8 mi. F. A. P. 171A, Roberts Co., 19,200 cu.yd. gravel, etc. $13,090, to Wagner & Erling Co., Sioux Falls, 15.09 mi. F. A. P. 172A, Edmonds Co., 22,633 cu.yd. gravel, etc. $36,094, 15.6 mi. F. A. P. 95B, Hand and Faulk Counties, 23,397 cu.yd. gravel, etc. $14,768, 25.38 mi. F. A. P. 149ABC, Spink Co., 38,073 cu.yd. gravel, etc. $42,880, to H. Pickus, Constr. Co., Sioux City, Ia., 16.25 mi. F. A. P. 112 and 142, Brown Co., 24,388 cu.yd. gravel, etc. $39,386, 11.05 mi. F. A. P. 143, Marshall Co., 16,574 cu.yd. gravel, etc. $24,899. Grand total, $551,508. Noted Apr. 16.

Missouri—State Hy. Comn., Jefferson City, to A. Hood, Independence, 30 ft. grading 3.824 mi. and 2.86 mi. Leavenworth-Tracy Rd., Platte Co. $41,460 and $14,550 respectively, to A. W. Mosely, Kansas City, 3.504 mi. and 3.427 mi. Rochester-Union Star Rd., Andrew Co. $15,517 and $17,664 respectively, to Stites, Cook & Miles, Crocker, 3.428 mi. Mt. Grove-Dunn Rd., Texas Co. $21,601, 3.478 mi. Nansfield-Mountain Grove Rd., Wright Co. $13,270, to Summerfield Jones Co., Billings, 3,471 mi. Nansfield-Mountain Grove Rd., Wright Co. $16,852; to Newton Constr. Co., Columbia, 16 ft. gravel surfacing 4.102 mi. Winfield-Old Monroe Rd., Lincoln Co. $45,458, to J. A. Kerr, Ozark, 3.97 mi. road from Ozark north and south, Christian Co., $7,028, 2,.64 mi. same road $6,975, 4.104 mi. same road $6,402, 2.944 mi. same road $15,324, 3.126 mi. road from Ozark south, Christian Co. $6,583, to M. E. Gillioz, Monett, 4,951 mi. Washburn-Seligman Rd., Barry Co. $18,351, 3.098 mi road from Seligman north and south, Barry Co. $11,483, 18 ft. concrete paving 1.281 mi. road from Galloway south, Greene Co. $16,586, 30 ft. grading 4.86 mi. Branch-Buffalo Rd., Dallas Co. $15,918, grading 1.281 mi. road from Galloway south, Green Co., $3,650; to T. L. Wright Lumber Co., Doniphan, 12 ft. gravel surfacing 1.405 mi. Doniphan-Poplar Bluff Rd., Ripley Co. $8,816, 2.756 mi. same road $19,017, grading 1.405 mi. same road $220; to Energy Coal & Supply Co., Poplar Bluff, 12 ft. gravel surfacing 4.179 mi. Doniphan-Poplar Rd., Butler Co. $27,047, 2.374 mi. Doniphan-Poplar Rd., Ripley Co. $16,515, to S. J. Graves & Sons Co., Minneapolis, Minn., 18 ft. gravel surfacing 3.733 mi. Fulton-North Bloomfield Rd., Gallaway Co. $13,416, 3.778 mi. same road, $14,446; to Davis Constr. Co., Boonville, 18 ft. concrete surfacing 4.339 mi. road from Columbia west, Boone Co., $58,646, 4.932 mi. same road, $74,478, grading 4.932 mi. same road $6,214, 4.339 mi. same road, $6,589; to A. A. Davis and E. S. Wells, Grain Exch. Bldg., Oklahoma City, Okla., 18 ft. concrete surfacing 2.278 mi. Levacy-Wellington Rd., Lafayette Co., $26,996, grading 2.278 mi. same road, $26,271; to Kaw Paving Co., 616 North East Bldg., Topeka, Kan., 18 ft. asphaltic concrete paving 3.502 mi. road from Springfield west, Greene Co., $61,740, 2.273 mi. same road $39,440, grading 2.273 mi. same road $6,713, 3.502 mi. same road $11,032; to Ziegler Bros., Junction City, Okla., 9 ft. concrete surfacing 4.978 mi. road from Rockport east $36,623, 1.76 mi. road from Tarkio south $12,348, 3.234 mi. Rockport-Fairfax Rd. $22,306, grading 4.978 mi. road from Rockport east $12,742, 1.769 mi. road from Tarkio south $2,059, 3.234 mi. Rockport-Fairfax Rd., $4,359, all foregoing in Atchison Co.; to B. Layton, Kirksville, 9 ft. concrete surfacing 2.19 mi. road from Princeton south $17,927, 3.78 mi. same road $30,738, 4.606 mi. road from Princeton north, $37,696, all in Mercer Co., 1.411 mi. road from Spickard north, Grundy Co. $11,528, grading 2.19 mi. road from Princeton south $7,296, 3.78 mi. road from Princeton south, $6,050, 4.606 mi. road from Princeton north $5,921, all in Mercer Co., 1.411 mi. road from Spickard north, Grundy Co., $2,733; to A. G. Sherwood, Independence, Kan., 18 ft. concrete surfacing 3.488 mi. road from Carthage east, Jasper Co. $57,098, 4.794 mi. same road $72,897, grading 3.488 mi. same road $11,414, 4.794 mi. same road $6,212; to Independence Constr. Co., Pittsburg, Kan., 18 ft. concrete surfacing 4.015 mi. road from Nevada north, Vernon Co. $63,300, 2.633 mi. Asbury-Joplin Rd., Jasper Co. $50,050, grading 4.015 mi. same road $15,385, 2.633 mi. same road $14,692; to C. G. Oglesby, Memphis, Tenn., 9 ft. concrete and 7 ft. gravel surfacing 3.056 mi. road from Risco east, New Madrid Co. $50,473, 3.182 mi. same road $57,390, grading 3.056 mi. same road $10,110, 3.182 mi. same road $13,374; to Lynch & McDonald, Moberly, 9 ft. brick on concrete surfacing 4.985 mi. Moberly-Cairo Rd., Randolph Co. $77,092, 2.525 mi. road from Jacksonville north and south $35,325, 4.994 mi. Cairo-Jacksonville Rd. $69,586, grading 4.985 mi. Moberly-Cairo Rd. $6,793, 4.994 mi. Cairo-Jackson Rd. $17,783, 2.525 mi. road from Jacksonville north and south $11,905, all foregoing in Randolph Co. Grand total $1,608,314. Noted Mar. 19.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, **(C. B. means City Block)** to Parkinson Bros. Constr. Co., 3237 Carter Ave., alleys in **C. B.** 1187 $4,925, **C. B.** 1884 $7,233 **C. B.** 1885 $1,460, **C. B.** 2370-A $4,305, **C. B.** 2471 $2,049, **C. B.** 2,483 $2,787, **C. B.** 5479; to A. Lewald, Amherst Pl., alleys in **C. B.** 2806 $2,337, **C. B.** 4895 $3,419, **C. B.** 5157 $5,973, **C. B.** 5556 $4,331; to Skrainka Constr. Co., Security Bldg., alleys in **C. B.** 4057 $3,693, **C. B.** 5254 $1,568, **C. B.** 5278 $1,988, **C. B.** 5315 $3,195, **C. B.** 5505 $3,928, **C. B.** [illegible] $1,264; to Eyermann Constr. Co., [illegible] South Grand Blvd., alleys in **C. B.** [illegible] $3,726. Grand total $58,124. City [illegible] $60,975. Noted Mar. 26.

Mo., University—(Sta. St. Louis)—[illegible] Crane Wilmore Organization, Boatmen's Bank Bldg., St. Louis, improving University Park Subdivision, 24,000 lin.ft. 5 ft. concrete sidewalks, 28,000 lin.ft. concrete curb and gutter, 381,000 sq.ft. asphaltic penetration on concrete surfacing, etc., to A. Fleschner, 7055 Winona Ave.

Nevada—State Hy. Comn., Carson City, gravel surfacing 5.08 mi. Fallon-Grimes Ranch Rd., Churchill Co., to Tieslau Bros., Wells, $23,582. Noted Apr. 16.

Nevada—State Hy. Comn., Carson City, grading and gravel surfacing 10.25 mi road from point 12 mi. east of Dunphy to East County line, Eureka Co., to C. A. Robinson, Twin Falls, Idaho, $101,982; 12.2 mi. road from Dunphy to point 12 mi. east, Eureka Co., to J. N. Tedford, Fallon, $108,765.

Washington—State Hy. Comn., Olympia, concrete paving, etc. 80,698 sq.yd. Pacific Highway from Ferndale to Bellingham, State Rd. No. 1, Whatcom Co., to Miley & Fox, Everett, $198,719. Noted Mar. 26.

Wash., Seattle—Bd. Pub. Wks., to D. H. Traphagen, Walker Bldg., improving Waters Ave. et al, clearing and grubbing $2,000, 5,500 cu.yd. grading $0.70 per cu.yd., 47,200 sq.yd. concrete sidewalks $1.31, 1,600 ft. special concrete curbing $0.30, etc., total $95,869. Engrs. est. $102,463. Noted Apr. 9.

Wash., Seattle—Bd. Pub. Wks., concrete paving portions Warren Ave. et al, to R. G. Stevenson, 1327 North 34th St., $26,420; Aurora Ave. and North 46th St. et al, to Fiorito Bros., 3950 6th St. N. W., $43,878 and $176,797 respectively.

Calif., Fresno—Fresno Co., widening with concrete shoulders 5.9 mi. highway between point 2 mi. north of Fresno and Herndon, to Stewart & Bland, Fresno, $40,610. Engr. est. $42,676. Noted Apr. 9.

Calif., Los Angeles — Supervs. Los Angeles Co., grading, curbing, guttering and sheet asphalt paving 61,113 sq.yds. Anaheim Telegraph Rd., to South West Paving Co., 806 Washington Bldg., $123,000. Engrs. est. $141,500. Noted Apr. 13.

Calif., Redondo Beach — To O. Miracle, 227 Ave. D. waterbound macadam paving with 2 in. oil surface 124,929 sq.ft. Lucia Ave. Approximately $43,650.

Calif., Redwood City—To W. W. Thompson, Redwood City, scarifying and reshaping, crushed rock and asphalt oiled surfacing, etc. in Roosevelt Ave. $24,162.33.

Calif., San Francisco—State Bd. Harbor Comn., Ferry Bldg., 2 in. willite on bituminous paving, portion of Embarcadero between Howard and Washington Sts., to Fay Impvt. Co., Phelan Bldg., $45,213. Noted Apr. 2.

Calif., Santa Rosa—Grading and reconstructing portions of Polk, Orchard and A. Sts. to Clark & Henry Constr. Co. Chancery Bldg., San Francisco, to exceed $25,000. Noted Feb. 26.

Calif., Signal Hill—to Griffith Co., Railway Bldg., Los Angeles, concrete paving 105,000 sq.ft. State St. et al, approximately $145,150.

Ontario—Dept. Pub. Highways, Parliament Bldgs., concrete paving 3.92 mi. Contr. 1159, to King & Holmes, Oakville, $100,000, 4.8 mi. Contr. 1160, to W. H. Harvey & Sons, Deseronto, $125,000, 3.86 mi. Contr. 1162, to W. Steward, Preston, $100,000, 9.2 mi. Contr. 1163, to Johnson Bros., Brantford, $250,000, 4.05 mi. Contr. 1164, to P. Bergmann, Waterloo, $110,000; bituminous concrete paving 6.2 mi. Contr. 1166, to Dufferin Constr. Co., foot Bathurst St., Toronto, $200,000; macadamizing 4.48 mi. Contr. 1175, to A. H. Parker, Cornwall, $80,000; waterbound macadamizing 3.53 mi. Contr. 1176, to G. H. Bryson, Alisonville, $75,000; grading 1.77 mi. Contr. 1179, to J. Rodgers, 183 Forward Ave., Ottawa, and 5.5 mi. Contr. 1180, to D. G. Montgomery, South Woodslee.

Ontario—Dept. Pub. Highways, 110 University Ave., Toronto, concrete paving 6.91 mi. Contr. 1165, to Orr & Clark, 121 Carlaw Ave. $190,000, 6.35 mi. Contr. 1181, to Bate-McMahon Co., Central Chambers, Ottawa $175,000, 4.13 mi. Contr. 1188 to King & Holmes, Oakville $120,000, 2.91 mi. Contr. 1184, to P. Bergmann, King St., Waterloo $80,000, 1.64 mi. Contr. 1189, to Grant Bros. Constr. Co., Natl. Bank Bldg., Ottawa, $40,000; asphaltic concrete paving 5.8 mi. Contr. 1193, to Merlo, Merlo & Ray, Walkerville, $250,000; bituminous penetration macadam paving 3.6 mi. Contr. 1196, to V. E. Belanger, Hawkesbury $75,000, 4.5 mi. Contr. 1197, to H. T. Routly, 90 Jarvis St., Toronto, $85,000; waterbound macadam paving 2.6 mi. Contr. 1199, to E. Irvine Co. Ltd., Alexandria, $50,000; grading Belleville Bay Bridge, to McGinnis & O'Connors, Kingston, $20,000. Grand total $1,100,000.

Streets and Roads (Continued)

Ont., Toronto—To Dufferin Constr. Co., foot Bathurst St., asphalt paving Nelson St. $9,059, resurfacing Manning Ave. $2,874, and Nassau St. $7,230, to Dept. Pub. Wks., by day labor, Jersey Ave. $17,049, Laplante Ave. $19,010, Leslie St. $19,017, Mt. Stephen Ave. $27,035; to Constructing & Paving Co., Confederation Life Bldg., asphaltic concrete paving Inglewood Dr. $2,753, to Kilmer & Barber, 10 Adelaide St. E., Harriett Ave. $2,706; to Grant Contg. Co., 50 Front St. E., Hillside brick block paving 7th St. $6,128, concrete sidewalks on Tullus Dr., Yonge Blvd. Snowden and Teddington Park Aves., and Yonge St.; to Warren Bituminous Paving Co., 54 University Ave., bituminous concrete paving Huron St. $3,259; to Dept. Pub. Wks., by day labor macadam paving Harriett St. $2,135, 900 ft. concrete curbs on Huron, Jersey and Page Sts. $0.63, 7th St. $0.72; to F. Angotti, 819 St. Clarens Ave. concrete sidewalks on Durie St. and Regal Rd., to H. Mitchell, 464 Brock Ave., Melrose Ave., to A. Johnson, 17 Fairmount Crescent, Orchard View Blvd., Keystone and Moberley Aves., to P. Lacastro, 1423 Dufferin St., Old Orchard Grove and Willowbank Blvd.

Ont., Toronto — To Warren Bituminous Paving Co., 54 University Ave., Warrenite bitulithic paving Bingham Ave. $9,533, Coslain Ave. $4,342; to Kilmer & Barber, 10 Adelaide St. E., asphalt paving Hanson St. $7,572, to Contg. & Paving Co., Confederation Life Bldg., Glenrose Ave. $8,002, and section of Vincent St. $2,432, to Dept. Pub. Wks., by day labor, other section of Vincent St. $4,172; to Asphaltic Concrete Co., Excelsior Life Bldg., granite block paving Bloor St. subway $40,533; to D. Mackay, 287 Ashdale Ave., concrete curbing Hanson St.; to A. Johnson, 17 Fairmount Crescent, Grant Contg. Co., 50 Front St. E., T. E. Lane, 37 Yorkville Ave., H. Mitchell, 464 Brock Ave., D. Mackay, 287 Ashdale Ave., and Ramsay Contg. Co., 39 Indian Rd., 12,000 ft. 4 ft. 6 in. to 8 ft. concrete sidewalks on various streets. Grand total $76,586.

British Columbia—Dept. Pub. Wks., Victoria, clearing and grading, 4 mi. highway through Fraser Canyon, in Yale and Cariboo Dists., to R. Leighton, Savona, $34,000.

Buildings—Industrial

PROPOSED WORK

Mass., Danvers — FIRE STATION and MACHINE REPAIR SHOP—Fire Dept. having revised plan prepared by Stebbins and Watkins, Archts., 164 Federal St., Boston, 2½ story and basement, 35 x 45 ft., 14 x 15 ft., rein.-con. and brick, Florence and High Sts. Former bids rejected. Noted Apr. 2.

Mass., Lynn — SHOP and GARAGE — City, c/o R. F. Handy, City Hall, having plans prepared 2 story, 50 x 150 ft., concrete plain foundation, Bennett St. $80,000. Private plans.

Mass., Quincy—MANUFACTURING—L. Grossman & Sons, 22 School St., plans 2 story and basement, 100 x 300 ft., timber, at Edwards Meadows. $100,000. Engineer and architect not selected.

Mass., Springfield — SUB-STATION — United Electric Light Co., L. J. Scott, genl. mgr., 73 State St., having plans prepared by McClintock & Craig, archts. and engrs., 33 Lyman St., 2 story, brick and steel, Wilbraham Ave. $150,000.

Pa., Phila.—PLANT—Harris & Richards, Archts., Drexel Bldg., soon lets contract southeast and northwest extensions to Building 4 1 story and gallery 120 x 250 ft., 23 x 142 ft. wings, 15 x 250 ft. train shed and 50 x 58 ft. dry kiln., rein.-con. and brick, plain foundation, Elmwood Ave. between 68th and 70th Sts., for General Electric Co., Witherspoon Bldg. Noted June 5.

Pa., Pittsburgh—PLANT—Builders Steel Wks. Co., 4130 Liberty Ave., plans 1 story, brick and steel plant, Howley St. $50,000. Private plans.

W. Va., Weirton—TUBE MILL, etc.—Weirton Steel Co. plans tube mill and 1 mi. of docks on Ohio River front.

N. C., Chapel Hill—HEATING PLANT and LAUNDRY—State University plans heating plant and laundry. $125,000. Atwood & Nash, Chapel Hill, engrs.

Ga., Cordova — FACTORY — Stephenson Brick Co., c/o L. L. Stephenson, pres., 2716 Hanover Circle, Birmingham, Ala., plans brick factory, here. $300,000.

O., Sebring—PLANT—Limoges China Co. plans brick, steel and concrete plant addition to form decorating department. $40,000.

O., Sebring—POTTERY—Sebring Pottery Co., plans brick, steel and concrete plant additions. $50,000.

Ill., Joliet—FACTORY—Gerlach-Barklow Co., J. C. Flowers, treas., Washington and Richards Sts., plans 3 story and basement, 75 x 100 ft. factory, Washington and Richards Sts. $150,000. Engineer and architect not selected.

Minn., Moorhead—PLANT—Election May 14, $135,000 bonds to purchase site and construct new municipal light plant in business section.

Minn., St. Paul—SHOP—Northern Pacific Railway Co., Railway Bldg., having plans prepared by O. M. Rognan, 1228 Railway Bldg., 2 story, 50 x 112 ft. commissary building, 1 story, 40 x 100 ft. pullman building, 1 story, 40 x 97 ft. storehouse, 1 story, 40 x 96 ft. battery building, 1 story, 40 x 40 ft. carshop, etc., all brick and steel, East 3rd and Commercial Sts. $85,000.

Kan., Salina — PLANT and WAREHOUSE—Shellabarger Milling Co. plans rebuilding warehouse, mixing and tempering plant, recently destroyed by fire. $100,000.

Tex., San Angelo — ICE PLANT — West Texas Utilities Co. takes bids after May 12, 70 ton capacity ice plant. $60,000. Adams & Adams, Gibbs Bldg., San Antonio, engrs.

Okla., Cherokee—POWER PLANT—City having preliminary plans prepared new 500 hp. oil engine electric light plant to replace present steam plant. $50,000. Engineer and architect not announced.

Okla., Dawson — CEMENT PLANT — Tulsa Cement Block Co., 104 North Boulder St., made plans new Portland cement plant and mill, here. $1,500,000. E. Clark Co., Monadnock Block, Chicago, Ill., engrs.

Okla., Kingfisher—COTTON COMPRESS —Fredericks Seed Farms plans brick and steel cotton compress. $75,000. Engineer and architect not selected.

Wash., Oroville — POWER PLANT — Okanogan Light & Power Co., plans power and irrigation plant, incl. 200 ft. dam, 70 ft. wide and 60 ft. high, to develop 20,000 hp. E. J. Broderick, company engr. $350,000.

Ore., Portland—FACTORY and WAREHOUSE—I. F. Powers, pres. I. F. Powers Furniture Co., 3rd and Yamhill Sts., having plans prepared by Clausen & Clausen, McClay Bldg., and takes bids about May 20, 5 story, 100 x 200 ft., rein.-con., Davis St. $250,000. J. H. Keller, Worcester Bldg., engr.

Ont., New Liskeard — FACTORY — C. Orser plans new canning factory. $40,000.

BIDS DESIRED

Pa., Phila.—SHOP—B. Ridgeway & Son, 9th and Columbia Sts., will build 1 story, 18 x 120 ft., and 22 x 140 ft., plain foundation, Clarissa and Bristol Sts. Work will be done by separate contracts. Private plans.

Md., Baltimore—BAKERY—General Baking Co., 342 Madison Ave., New York City, having plans prepared 2 or 3 story, rein.-con. and brick, plain foundation, Harford and North Aves. $300,000. Private plans.

Va., Roanoke—PLANT—May 19, by Ballinger Co., archts., 12th and Chestnut Sts., Phila., Pa., 1 and 2 story and basement, 198 x 582 ft., rein.-con. and brick addition, plain foundation, on premises located on Roanoke River, near here, for Viscose Corp. of Virginia, Marcus Hook, Pa.

Wis., Marinette — SUBSTATION — Menominee & Marinette Light & Traction Co., Menominee, Mich., taking bids 2 story, 40 x 70 ft., brick and concrete, plain foundation, here. $40,000. Derrick Hubert, Menominee, Mich., engr.

Wis., Waukesha — PLANT — H. C. Haeuser, archt., 445 Milwaukee St., Milwaukee, taking bids 2 story and basement, 60 x 118 ft., hollow tile and concrete addition to bottling plant, plain foundation, here, for Waukesha Silurian Water Co. $40,000.

Kan., Maryville—PLANT—Armour & Co., 208 South La Salle St., Chicago, plans rebuilding packing plant, recently destroyed by fire, here. $150,000.

Mo., St. Louis — FACTORY — Multiplex Faucet Co., 22nd and Cass Aves., taking bids 2 story and basement, 80 x 200 ft., rein.-con. and brick, Duncan Ave. $75,000. W. P. McMahon, Buder Bldg., archt.

CONTRACTS AWARDED

Me., Rumford — PLANT — Oxford Paper Co., 1 story, 80 x 130 ft., brick and steel addition, to F. A. Rumery & Co., 537 Congress St., Portland. Archts. est. $50,000.

Mass., Chicopee — MANUFACTURING — Asinol & Sons Mfg. Co., Inc., 29 Worthington St., 4 story, 40 x 130 ft., brick and timber, Worthington St., to J. G. Roy & Son, 21 Silver St., Springfield. Archts. est. $80,000. Noted Apr. 30.

Mass., Fitchburg—MILL—Crocker, Burbank & Co., 548 Westminster St. 2 story, 60 x 255 ft. extension to Machine Mill 8 to Wiley & Foss, Central St.

Mass., Monson — PLANT — A. D. Ellis Mills, Inc., 1 and 2 story, 91 x 125 ft., rein.-con., brick and steel power and manufacturing building to contain boiler house, dye house, engine room and wool sorting room, to McNally Building Co., Concord Ave., Framingham. Archts. est. $50,000. Noted Apr. 30.

Mass., Reading — FACTORY — Dennison Organ Pipe Co., 2 story, 35 x 110 ft. with 38 x 38 ft. wing brick and steel addition to Austin Co., 120 Bway., New York City. Archts. est. $40,000.

N. Y., Long Island City—FACTORY—T. A. B. Building Constr. Corp., 110 West 40th St., New York City, 8 story, 100 x 200 ft., rein.-con. and steel, plain foundation, Graham Ave. between 14th and 15th Aves., here, to Barney-Ahlers Constr. Corp., 110 West 40th St., New York City. Archts. est. $800,000.

N. Y., Long Island City—HOUSING STATION—M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., housing station, 62nd Rd. and 94th St., to Werner Mitchell Inc., 1 De Kalb Ave., Brooklyn, $71,394. Noted Apr. 16.

Pa., Connellsville—WAREHOUSE—West Penn Railways Co., West Penn. Bldg., Pittsburgh, will build 2 story and basement, 60 x 420 ft., brick, steel and concrete, by day labor. $100,000. Private plans.

Pa., McDonald—PLANT—McDonald File & Steel Co., McDonald, 1 story, 45 x 360 ft., brick and steel, to J. B. Masqueiles, McDonald. Archts. est. $100,000.

Pa., New Hope—BOILER HOUSE—Union Mills Paper Co., Bridge St., 2 story and basement, 42 x 49 ft., rein.-con. and brick, plain foundation, to F. B. Davis & Son, 240 North 16th St., Phila.

Pa., Phila. — FACTORY — H. C. Pedley, Corn Exch. Bldg., 1 story, 200 x 220 ft., brick and steel, plain foundation, Towesdale Ave. and N St., to Nelson-Pedley Co., Corn Exch. Bldg. Mack International Motor Truck Co., 42nd and Woodlawn Sts., lessee.

Pa., Phila.—SHOP and OFFICE—Carson & Carson, archts., 22 South 15th St., 1 story, 60 x 202 ft., brick, plain foundation, Tioga Witte and Sepviva Sts., to Thompson-Lockhart Co., 6 South 40th St. for Cattie Bros. Corp., 1712 North 9th St.

Pa., Phila.—PLANT—O'Brien Cooperage Co., Whart Lane and Walter St., 2 story and basement, 60 x 107 ft., brick, plain foundation, to F. A. Havens Co., 845 North 19th St. Archts. est. $40,000.

Pa., Pittsburgh—CREAMERY—Fairmont Creamery Co., 100 25th St., 5 story and basement, 24 x 99 ft., brick and hollow tile, 25th and Smallman Sts., to E. Wehr, Hiland Bldg. Noted Apr. 30.

Fla., Hialeah — ICE PLANT — Royal Palm Ice & Refrigerating Co., Miami Beach, ice plant, here, to G. S. Symmonite Constr. Co., Miami, $250,000.

Fla., Miami Beach—ICE PLANT—Royal Palm Ice & Refrigerating Co., Miami Beach, ice plant to G. S. Symmonite Constr. Co., Miami $175,000.

Wis., Green Bay — COLD STORAGE — Northern Cold Storage Co., North Bway., 1 story and basement, 82 x 180 ft., brick and concrete, plain foundation, Bway., to L. M. Hansen Co., 113 West Walnut St. Archts. est. $50,000.

Wis., Madison — PLANT — J. Heilprin Fruit Co., West Mifflin St., 2 story and basement, 66 x 120 ft., cold storage and fruit plant, rein.-con., brick and steel, Wilson St., to Wells Constr. Co., 1136 Lumber Exch. Bldg., Minneapolis, Minn. $50,000. Archts. est. $40,000. Noted Apr. 23.

Wis., Milwaukee — PLANT — Empire Fish Co., 2417 Vliet St., 2 story, 30 x 40 ft., brick and timber refrigerating plant, plain foundation, Vliet St., to A. W. Riesen, 961 North Water St. Archts. est. $40,000.

Wis., New London—CANNERY—Hamilton & Sons Caning Co., 3 story, brick and timber addition, plain foundation, to Thomas Constr. Co., New London. Archts. est. $45,000.

Wis., West Bend — CANNERY — West Bend Canning Co., 2 story, 52 x 128 ft., brick and timber addition, plain foundation, to J. Willkom, West Bend. Engrs. est. $45,000.

Mo., St. Louis—FACTORY—Anhauser-Busch, Inc., 9th and Pestalozzi Sts., 1 story and basement, 113 x 125 ft., brick and concrete addition, 2838 South 3rd St., to W. Green, 3131 South Bway. Archts. est. $40,000.

Mo., Trenton — GAS PLANT — Trenton Gas & Electric Co., gas plant extension, to General Eng. & Management Corp., 165 Bway., New York City, N. Y. Engrs. est. $185,000.

Calif., Los Angeles—FACTORY—United Furniture Mfg. Co., 225 Stimson Bldg., 2 story, 40 x 165 ft., timber annex, 59th St., to J. H. Heckman, 216 West 84th Pl.

Calif., Los Angeles—PLANT—Alfred Ice Cream Co., 817 East 18th St., 2 story, basement, 45 x 100 ft. ice cream plant, brick,

Buildings—Industrial (Continued)

East 18th St., to J. F. Kuhns, 175 West 37th Pl., $45,000.

Calif., Los Angeles — FACTORY, etc. — Southwest Hardware Co., 4867 2nd Ave., 2 story, 80 x 140 ft., rein.-con. factory and warehouse, Atlantic St., to Bavin & Burch, 173 East Jefferson St.

Calif., Oakland — POWER HOUSE — Alameda Co., power house, etc., to J. Branagh, 184 Perry St., $153,000.

Calif., Wilmington—PLANT—Harbor Ice Co., ice manufacturing plant, Lagoon Ave., to R. E. Campbell, 302 East Anaheim St., Long Beach, $42,000.

Buildings—Commercial

PROPOSED WORK

Mass., Arlington (Br. of Boston)—THEATRE—J. E. Locatelli, 151 Highland Ave., Somerville, having preliminary plans prepared 1 and 2 story, brick. Lake St. and Massachusetts Ave. $150,000. Private plans.

Mass., Boston — APARTMENT — Thirty-two Beacon St. Trust, c/o Street & Co., 185 Devonshire St., having preliminary plans prepared by Putnam & Cox, 114 State St., 6 story and basement, brick, 32 Beacon St. To exceed $150,000.

Mass., Springfield — APARTMENT — W. Lay, Inc., Bridge St., plans apartment, Main and Plainfield Sts. $1,000,000. Engineer and architect not selected.

Mass., Springfield — EXCHANGE — New England Telephone & Telegraph Co., 295 Worthington St., having plans prepared by R. C. Sturgis, 120 Boylston St., Boston, 3 story, brick and steel addition. $300,000.

Mass., Springfield—HOSPITAL—Wesson Maternity Hospital, High St., plans brick or limestone hospital addition. $400,000.

Mass., Springfield—OFFICE—A. Romano, 29 Locust St., having sketches made by W. E. Dibble, 317 Main St., 4 story, brick and steel, State St. $150,000. Noted Mar. 12.

Mass., Springfield — OFFICE — Tarbel-Watters Co., 166 Chestnut St., plans 5 story, brick and steel, Chestnut St. $180,000. H. L. Sprague, 318 Main St., archt.

Mass., Springfield — THEATRE — H. Cohen, 36 Kenwood Terrace, having plans prepared by J. W. Foster, 105 Bridge St., 2 story, 95 x 125 ft., brick and steel, Oakland St. $150,000.

Conn., New Haven — APARTMENT — Cooney Bros., High St., having plans prepared by L. J. Julianelle, 42 Church St., 6 story, 125 x 128 ft., brick and steel, High St. $300,000.

Conn., Willimantic—HOTEL—Community Hotel Corp., W. P. Jordan, pres. Bd. Directors 228 North St., having plans prepared by G. B. Post & Son, 101 Park Ave., New York City, modern hotel, Main St. $350,000. Noted Feb. 19.

N. Y., Brooklyn—APARTMENTS—Siris & Cohen, c/o Shampan & Shampan archts. and engrs., having plans prepared two 6 story and basement, brick, steel and stone, plain foundation, Eastern Parkway. $750,000 each.

N. Y., New York—APARTMENT—Sommerfeld & Sass, archts. and engrs., 31 Union Sq., preparing plans 6 story, brick, steel and stone, plain foundation, Sherman Ave. $200,000. Owner's name withheld.

N. Y., New York—APARTMENT—Simon Bros., 50 East 42nd St., having plans prepared by J. M. Felson, archt. and engr., 250 West 57th St., 15 story, brick, steel and stone, plain foundation, 93rd St. and West End Ave.

N. Y., New York—APARTMENTS—J. O'Leary, c/o J. P. Boyland, archt., and engr., 120 East Fordham Rd., having plans prepared 5 story, brick, steel and stone, plain foundation, West 165th St. $150,000 each.

N. Y., New York—APARTMENT—Courtland Bishop Corp., c/o Carrere & Hastings, archts., 52 Vanderbilt Ave. having plans prepared, brick, steel and stone, plain foundation, 6th Ave. and 55th St. $1,500,000.

N. Y., New York—APARTMENT—Garment Workers' Union, 3 West 16th St., takes bids about June 1, 5 story, brick, steel and stone, plain foundation, 158th St. and Sheridan Ave. $1,500,000. A. J. Thomas, 15 East 47th St., archt. and engr. Noted Apr. 30.

Pa., Ardmore—APARTMENT—McKenzie & Wiley, archts., Bankers Trust Bldg., Phila., preparing plans 4 story and basement, brick and steel apartment, plain foundation, here. $700,000. Owner's name withheld.

Pa., Bala — APARTMENT — Apartment Building Co., c/o R. G. Pratt, archt., Franklin Trust Bldg., Phila., plans brick and steel, plain foundation, $150,000.

Pa., Drexel Hill—APARTMENT HOTEL—R. Beard, archt., 2120 Lambert St., Phila., preparing plans 5 story, brick and steel, plain foundation, Drexel Hill Plaza. $1,250,000. Owner's name withheld.

Pa., Overbrook—APARTMENT—R. G. Pratt, archt., Franklin Trust Bldg., Phila., soon lets contract 4 story and basement, 45 x 100 ft., brick and steel, plain foundation, Drexel Rd. and Upland Way. $150,000. Owner's name withheld.

Pa., Phila. — APARTMENT — W. A. Brady, c/o Lippincott & Schaef, archts., 11 South 16th St., having plans prepared 4 story and basement, 140 x 148 ft., and 48 x 90 ft., brick and steel, plain foundation, 63rd and Lebanon Sts. $500,000.

Pa., Phila. — APARTMENT — R. Beard archts., 2120 North Lambert St., soon takes bids, 4 story and basement, 50 x 166 ft., brick and steel, plain foundation, 7013 Torresdale Ave., for B. Miller, 614 Commonwealth Bldg. $200,000.

Pa., Phila.—EMERGENCY BUILDING—Emergency Aid of Phila., J. W. Martin, acting chn., 21 Walnut St., plan 420 room, brick and steel dormitory, Rittenhouse Sq. Dist. $850,000. Architect's name withheld.

Pa., Wilkensburg—THEATRE—Colonial Amusement Co., 913 Wood St., having plans prepared by V. A. Rigamount, State Theatre Bldg., Pittsburgh, 3 story and basement, 83 x 132 ft., brick and steel, Pennsylvania Ave. $250,000.

Md., Baltimore—LODGE and STORE—Knights of Pythias, R. L. Lee, chn. building comn., 129 North Gay St., having plans prepared by C. N. and N. Friz, Lexington Bldg., 4 story and basement, 82 x 150 ft., brick and steel, plain foundation, Charles and Preston Sts. $250,000.

D. C., Wash.—APARTMENT—B. S. Simmons, archt., 1013 15th St., N. W., prepared plans apartment. $700,000. Owner's name withheld.

N. C., Kinston—HOTEL—Kinston Chamber of Commerce Hotel Co., plans 10 story and basement hotel. $220,000.

N., C., Winston-Salem—COURT HOUSE—Bd. Comrs. Forsyth Co., having plans prepared remodelling and constructing 1 story court house addition. $250,000. O. B. Eaton, Winston-Salem, Chn. Engineer and architect not announced.

La., Shreveport—APARTMENT HOTEL—Wittenberg, Delony & Watts, archts., Southern Trust Bldg., Little Rock, Ark., preparing plans and take bids about May 12, 7 story and basement, brick, terra cotta and rein.-con., Margaret Pl. and Elizabeth St., here, for T. P. Florida, Hall Bldg., Little Rock, Ark., and E. J. Tiggrett, 80 Madison Ave., Memphis, Tenn., and associates. $500,000. Noted Apr. 23.

Tenn., Memphis—WAREHOUSE—Crane Co., Court and 4th Sts., F. A. Duncan, local mgr., having plans prepared by C. P. Pfeil & G. Awsumb, Fidelity Bank Bldg., 2 story and basement, 62 x 165 ft., concrete and brick, Bway. and Florida Sts. $150,000.

O., Cleveland—CREMATORY, etc.—City, W. R. Hopkins, city mgr., City Hall, having preliminary plans prepared by H. Kregelius, City Hall, 1 and 2 story, brick steel and concrete crematory, comfort stations and vaults in various parks and cemeteries. $200,000.

O., Fostoria—HOTEL—Ermine Hotel, Inc., having sketches made by Millott & Parker, Sandusky, 4 story and basement, 80 x 125 ft., rein.-con. and brick hotel. $200,000.

Mich., Detroit—LODGE and OFFICE—Prince Hall Masonic Assn., B. Tenick, chn. building com., c/o H. W. Dorst, archt., 3228 Burlingame Ave., having plans prepared 3 story and basement, 60 x 90 ft., brick, steel and stone, plain foundation, St. Antoine St. $150,000.

Mich., Detroit—THEATRE—J. I. Weinberg, archt., 401 Congress Bldg., preparing plans 2 story and basement, 110 x 170 ft., rein.-con., brick and steel, plain foundation, in northwest section. $225,000. Owner's name withheld.

Ill., Chicago — APARTMENT — C. H. Daemicke, 6435 Kimbark Ave., having plans prepared by T. R. Bishop, 35 South Dearborn St., 3 story and basement, 150 x 220 ft., rein.-con., brick and stone plain foundation, 6446 Kenwood St. $400,000.

Ill., Chicago — APARTMENT — Owner, c/o T. R. Bishop, archt., 35 South Dearborn St., having plans prepared 3 story and basement, 145 x 161 ft., rein.-con., brick and stone, plain foundation, Dante and 70th Sts. $300,000.

Ill., Chicago—APARTMENT—H. Zisook, 6132 Eberhart Ave., having plans prepared by T. R. Bishop, 35 Dearborn St., 5 story and basement, 75 x 136 ft., 5800 Harper St. $400,000.

Ill., Chicago — BANK — Home Bank & Trust Co., 1231 Milwaukee Ave., had plans prepared by K. M. Vitzthum & Co., archts. and engrs., 605 North Michigan Ave., 6 story and basement, 100 x 300 ft., rein.-con., brick and terra cotta, plain foundation, Ashland and Division Sts. $750,000.

Ill., Chicago — CLUB — Chicago Community Club, c/o W. H. Smith, 122 South La Salle St., having sketches made by K. M. Vitzthum & Co., archts. and engrs., 605 North Michigan Ave., 18 story and basement, 100 x 150 ft., rein.-con., brick and stone, caisson foundation, La Salle St. $3,000,000.

Ill., Chicago—CLUB—I. O. O. F., F. Hand, ch. ranger, 77 West Washington St., having plans prepared by Doerr, Lindquist & Doerr, 7 West Madison St., 4 story and basement, 62 x 150 ft., rein.-con. and brick, plain foundation, 1016 West Dearborn St. $250,000.

Ill., Chicago—HOTEL—C. H. Daemicke, 6435 Kimbark St., having plans prepared by T. R. Bishop, 35 South Dearborn St., 3 story and basement, 75 x 244 ft., rein.-con., brick and terra cotta, plain foundation, 6600 Woodlawn St. $375,000.

Ill., Chicago — HOTEL — Matteson & Weise, 565 Diversey Parkway, having sketches made by Hooper & Janusch, engrs. and archts., 879 North State St., 8 story and basement, 112 x 124 ft., rein.-con., brick and stone, caisson foundation, Webster and Sedgwick Sts. $1,000,000.

Ill., Chicago—HOTEL—Mittelman Bros., c/o R. C. Harris, archt., 190 North State St., had plans prepared 5 story and basement, rein.-con., brick and stone, plain foundation, Arlington St. $750,000.

Ill., Chicago — MERCANTILE — Parke, Davis & Co., 2951 Atwater St., Detroit, Mich., plans 12 story and basement mercantile building, Randolph and Franklin Sts., here. $1,000,000. Engineer and architect not selected.

Ill., Decatur — ARMORY — State Dept. Pub. Wks., Capitol Bldg., Springfield, plans armory, here. $310,000. W. J. Lindstrom, State Capitol, Springfield, acting state archt.

Ill., Elgin—WARD—State Dept. Pub. Wks., Capitol Bldg., Springfield, having plans prepared by W. J. Lindstrom, acting state archt., Capitol Bldg., Springfield, 1 story and basement, rein.-con. and brick, plain foundation, here. $200,000.

Ill., Waukegan—CLUB HOUSE—L. O. O. M., W. Scott, dictator, plans 3 story and basement, 68 x 200 ft. club house, Washington St. $150,000. Engineer and architect not selected.

Wis., Milwaukee—OFFICE and STORE—R. T. Maischoss, 477 Menlo Blvd., plans 12 story and basement, 120 x 120 ft., brick and concrete or brick and steel, plain foundation, Wisconsin St. $800,000. Engineer and architect not selected.

Wis., Racine—HOTEL and ARCADE—D. S. Komiss Co., D. S. Komiss, pres., 301 South State St., Chicago, Ill., having plans prepared by H. J. Burns, 605 North Michigan Ave., Chicago, Ill., 9 story and basement, 100 x 300 ft., rein.-con., brick and steel hotel and arcade addition. $300,000. K. M. Vitzthum & Co., 605 North Michigan Ave., Chicago, Ill., engrs. Noted Mar. 19.

Minn., Hopkins — HOSPITAL — Comrs. Hennepin Co. plan 3 story, rein.-con. and brick hospital on County Poor Farm. $225,000 bond sale authorized. Engineer and architect not selected.

Minn., St. Paul — HOSPITAL — Ramsey Co. Bd. Control, Court House, rejected bids Apr. 16, 4 story and basement, 150 x 160 ft., rein.-con., brick and stone addition, Jefferson and Colburn Sts. $400,000. Will readvertise. Noted May 7.

Kan., Topeka—STATION—Union Pacific R.R. Co., 1416 Dodge St., Omaha, Neb., having plans prepared by G. S. Underwood, I. W. Hellman Bldg., Los Angeles, Calif., railway station and freight departments, here. $500,000-$1,000,000. R. L. Huntley, ch. engr.

Mo., Butler — HOSPITAL — Bates Co. plans election soon, $185,000 bonds for hospital.

Mo., Kansas City — APARTMENT HOTEL—F. L. Eberhardt, Salina, Kan., having plans prepared by S. M. Hitt, Huntzinger Bldg., 1 story and basement, 9,000 sq.ft. ground area, Armour and Charlotte Sts. $750,000.

Mo., Kansas City — APARTMENT HOTEL—J. J. Smolinsky, 4600 Virginia Ave., plans 7 story, 70 x 140 ft. brick,

Buildings—Commercial (Continued)

Armour and Tracy Sts. $400,000. Engineer and architect not selected.

Mo., Kansas City—SALES—Schutte Investment Co., c/o V. E. Schutte, 1742 Jefferson St., having plans prepared by R. H. Sanneman, Lee Bldg., 3 story and basement 21,400 sq.ft. floor space, rein.-con. and plain foundation, 26th and Grand Sts. $150,000.

Mo., Kansas City—STORE, GARAGE and DANCE HALL—Winter Garden Corp. c/o G. H. Siedhoff, Baltimore Hotel, having plans prepared by Shepard & Wiser, 1208 R. A. Long Bldg., 3 story and basement, 108 x 157 ft., rein.-con., plain foundation, 14th and Baltimore Sts. $400,000.

Mo., Kansas City—THEATER—E. E. Werner, 3360 Gillham Rd., having plans prepared by Boller Bros., 114 West 10th St., 1 story, basement and balcony, 60 x 235 ft., rein.-con., terra cotta and brick, plain foundation, 3827 Main St. $150,000.

Tex., Dallas—GARAGE—Sanger Bros. Dry Goods Co., Main and Lamar Sts., having plans prepared by J. A. Pitzinger, 807 Southwestern Life Bldg., 5 story and basement, 100 x 100 ft., rein.-con., brick, steel and stone, Elm and Austin Sts. $150,000.

Tex., Dallas—OFFICE—Methodist Episcopal Church South, c/o Lamar & Barton, 1308 Commerce, plans 14 story and basement office building, in business section. To exceed $500,000. Engineer and architect not selected.

Tex., Hereford—HOTEL—Chamber of Commerce, c/o A. Overton, pres., plans hotel. $150,000. Engineer and architect not announced.

Tex., Houston — MARKET — City, c/o O. F. Holcombe, mayor, having plans prepared for market between Smith St. and Franklin Ave. Bridges. $350,000 bonds voted. J. C. McVea, city engr.

Tex., San Antonio — OFFICE and THEATRE—J. Oppenheimer, 309 Madison St., et al., takes bids after May 16, 6 story and basement, 110 x 160 ft., rein.-con., brick and stone, plain foundation, St. Marys and Commerce Sts. $1,500,000.

Colo., Grand Junction—HOTEL—Argonaut Hotel Assn., Wichita, Kan., c/o M. Y. Charles, archt., 601 Schwartzer Bldg., Wichita, Kan., having plans prepared 5 story and basement; 95 x 125 ft., rein.-con., brick and tile. $300,000.

Calif., Los Angeles—HOSPITAL—Franciscian Sisters, 1223 Santee St., having preliminary plans prepared by A. C. Martin, Higgins Bldg., 7 story and basement, brick, steel and hollow tile, Waterloo St. and Bellevue Ave. To exceed $250,000.

Calif., Los Angeles—HOTEL, etc.—Sun Realty Co., 742 South Hill St., having plans prepared by Curlett & Beelman, 408 Union Bank Bldg., 13 story and basement, 122 x 150 ft. hotel and store building, 7th and Hartford Sts., $1,000,000; also 13 story and basement, 87 x 113 ft. hotel and store building, 7th and Lebanon Sts., $900,000, both rein.-con.

Calif., Los Angeles—HOTEL—Y.W.C.A., 941 South Figueroa St., had preliminary plans prepared by Stanton, Reed & Hibbard, 622 Metropolitan Bldg., 12 story and basement, 72 x 170 ft., hotel. $900,000.

Calif., Pasadena—MAUSOLEUM—Mountain View Mausoleum Assn., Pacific South West Bank Bldg., had plans prepared by C. L. Jay, 845 East Washington St., 200 x 300 ft., rein.-con. mausoleum, North Marengo St. $400,000. C. E. Bryan, genl. mgr.

Calif., Yreka—HOSPITAL—Siskiyou Co. had plans prepared by G. C. Sellon & Co., California State Life Bldg., fireproof hospital. $150,000. Noted Feb. 6.

Ont., Ottawa — APARTMENT — H. C. Church, 196 Elgin St., plans 60 x 130 ft. apartment house, Elgin St. $450,000. Engineer and architect not selected.

Ont., Toronto — CLUBHOUSE — Toronto Hunt Club, Eglinton Ave., having plans prepared by V. Chadwick, 132 Church St., 2 story and basement, rein.-con., brick and steel, Orchard View Blvd. $200,000.

Ont., Toronto—COLISEUM—City having plans prepared by J. J. Woolnough, City Hall, 2 story, rein.-con., brick and steel addition, plain foundation, Exhibition Park. $250,000.

BIDS DESIRED

Mass., Boston—HOME—Beth Israel Hospital, 45 Townsend St., Roxbury, taking bids 4 story and basement, 40 x 127 ft. nurses home, with 40 x 37 ft. wing, brick and stone, plain foundation, Brookline and Longwood Aves., Back Bay Dist., here. Densmore, LeClear & Robbins, Park Sq. Bldg. Boston, archts.

Mass., Boston—STORE and OFFICE—Frankel, 162 Main St., Charlestown taking bids 4 story and basement, 50 x 90 ft., brick and stone, 152 Main St., here. $150,000. Douglas, 393 Bway., Cambridge, archt.

Mass., Cambridge — APARTMENT — Owner c/o H. F. Kellogg, archt., 110 Summer St., Boston, taking bids 5 story and basement, 50 x 90 ft., brick and stone, plain foundation, Dana St., Massachusetts Ave. and Dana St. $150,000.

Mass., Jamaica Plain (Boston P. O.)—NURSES HOME—Faulkner Hospital, C. J. Nichols, pres. ,taking bids 4 story and basement 40 x 130 ft., brick and stone nurses home, plain foundation. $160,000. O. A. Thayer, 89 Franklin St., Boston, archt.

Mass., Malden—STORE and OFFICE—J. Ruderman & Son, 57 Ferry St., taking bids 2 story and basement, 45 x 140 ft., rein.-con. and brick, Ferry St. $150,000. C. F. Springall, 50 Concord St., archt. Noted Apr. 16.

Mass., Northampton — HOME — White Eagles Home, c/o J. W. Sliwa & Co., archt., 56 Main St., taking bids 3 story and basement, 75 x 80 ft., brick and stone, Strong and Pearl Sts. $150,000.

Mass., Somerville (Boston P. O.) — STORE and OFFICE—Hillson Associates, c/o J. A. Quirk, archt., 10 Tremont St., Boston, taking bids 2 story and basement, 80 x 100 ft., brick and stone, Bway. and Boston Ave. $150,000.

R. I., Newport—HOTEL—Day & Zimmerman, Inc., engrs. and constr. mgrs., 1600 Walnut St., Phila., will build 5 story and basement, 72 x 151 ft., rein.-con., brick and steel, plain foundation, Church, Toura and Bellevue Sts., here, for Community Hotel Corp. $325,000. Work will be done by separate contracts. Thomas, Martin & Kirkpatrick, Cunard Bldg., Phila., associated archts.

Conn., Stamford — OFFICE — Stamford Water Co., 271 Main St., taking bid s2 story and basement, 38 x 125 ft., brick and steel, Summer St. $150,000. Butler & Provost, 292 Main St., archts.

N. Y., Central Islip—HOSPITAL—June 3, by State Hospital Comn., Albany, employees home, at Central Islip State Hospital, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. May 14.

N. Y., New York — OFFICE — Parlex Building Corp., c/o York & Sawyer, archts., 100 East 42nd St., will build 35 story office building, 4th Ave. and 32nd St. $18,000,000. Work will be done by separate contracts.

Pa., Altoona—CITY HALL—June 2, by City Council, E. S. Giles, mayor, 3 story and basement, 90 x 120 ft., brick and steel, plain foundation, 13th Ave. $200,000. Hersh & Shollar, Commerce Bldg., archts. Noted Feb. 19.

Pa., Phila.—OFFICE—Penn. Realty Co., 1700 Sansom St., will build, 8 story and basement, 36 x 64 ft., brick and steel plain foundation, 17th and Sansom Sts., $150,000. Work will be done by separate contract. Gravell & Hall, Otis Bldg., archts.

Pa., Pittsburgh — WAREHOUSE — W. J. Butler, Jr., 2nd Ave., taking bids 5 story and basement, brick, steel and concrete, 2nd Ave. $200,000. N. F. Arble, c/o owner, archt.

Md., Baltimore—HOSPITAL—May 18, by J. E. Sperry, archt., Calvert Bldg., 7 story and basement, 155 x 176 ft., brick and steel, plain foundation, Monument and Rutland Aves., for Hebrew Hospital & Asylum Assn., Monument and Rutland Aves. $800,000. Noted Apr. 23.

S. D., Miller—COURT HOUSE—June 3, by P. H. Walsh, aud. Hand Co., 3 story and basement, rein.-con., brick and stone court house. $175,000. J. G. Ralston, Waterloo, Ia., archt. Noted Dec. 25.

Mich., Detroit—HOSPITAL—May 16, by Carey & Esselstyn, archts., 2539 Woodward Ave., 9 story and basement, rein.-con., brick and steel annex, plain foundation, Clinton St., for Pub. Welfare Comn., Clinton and Raynor Sts. $1,000,000.

Mich., Detroit — WAREHOUSE — J. H. Kastler & Co., archts., 523 Detroit Savings Bank Bldg., taking bids and open same about May 22, 2 story, 136 x 356 ft., rein.-con. and brick, plain foundation, Merritt Ave., for Kroger Grocery & Baking Co., Merritt and Junction Aves. $160,000.

Ill., Chicago—APARTMENT—A. Matheson, 1323 Independence Blvd., taking bids 3 story and basement, 106 x 138 ft., brick and stone, plain foundation, Adams and Central Sts. $150,000. Dubin & Eisenberg, 14 West Washington St., engrs.

Ill., Chicago—APARTMENT—P. F. Olson, (archt. and owner), 720 Cass St., taking bids 3 story and basement, 120 x 120 ft., rein.-con., brick and stone, plain foundation, Dakin and Rokeby Sts. $200,000.

Ill., Chicago—APARTMENT—F. A. Anderson, 455 Oakdale Ave., taking bids 3 story and basement, 100 x 165 ft., brick and stone, plain foundation, 4521 North Paulina St. $200,000. C. W. Westerlind, 179 West Washington St., archt.

Ill., Chicago—APARTMENT—F. Alden, 6801 Bennett St., taking bids 3 story and basement, 125 x 160 ft., rein.-con., brick and stone, plain foundation, 7800 Jeffrey St. $200,000.

Ill., Chicago—APARTMENT—R. France, archt., 155 North Clark St., taking bids 3 story and basement, 120 x 198 ft., rein.-con., brick and stone, plain foundation, Marshfield and Howard Sts. $350,000. Owner's name withheld.

Wis., Madison — APARTMENT — Gay Bros., Gay Bldg., taking bids 3 story, 60 x 68 ft., rein.-con., brick and steel, plain foundation, Monroe St. $150,000. Bolch & Pope, Gay Bldg., archts.

Wis., Milwaukee — THEATRE — Dick & Bauer, archts., 811 State St., taking bids and open same about May 18, 2 story and basement, 86 x 88 ft., and 100 x 152 ft., brick, concrete and tile, plain foundation, Wells St., for Mal Investment Co., 376 East Water St. $500,000.

Calif., Los Angeles—BANK and OFFICE—J. and D. Parkinson, archts., Title Insurance Bldg., taking bids 2 story and basement, 80 x 1,230 ft., brick and concrete, South Western Ave., for Security Trust & Savings Bank, 502 South Spring St. Noted Apr. 30.

Calif., Los Angeles—BANK and OFFICE—Pacific Natl. Bank, 652 South Olive St., taking bids 12 story and basement, 95 x 166 ft., terra cotta and marble, 9th and Hill Sts. $1,500,000. Morgan, Walls and Clements, 1124 Van Nuys Bldg., archts.

Calif., Los Angeles—THEATRE, etc.—Bard Theatres, Inc., Pershing Sq. Bldg., taking bids 2 story, 100 x 200 ft., rein.-con. and brick, theatre, store and office building, 1617-21 North Vine St. $175,000. L. A. Smith, 3rd St. and Western Ave., archt.

BIDS RECEIVED

Pa., Pittsburgh — BANK — Bloomfield Trust Co., 4740 Liberty Ave., 3 story and basement, Liberty Ave., from A. and S. Wilson, 541 3rd Ave., $216,000. Noted Mar. 19.

CONTRACTS AWARDED

Mass., Boston—HOME—Mount Pleasant Home, 57 Elm Hill Ave., 3 story and basement, 100,000 sq.ft. floor space, brick and limestone, plain foundation, South Huntington Ave., to Mitchell & Sutherland, Inc., 18 Tremont St. Archts. est. to exceed $150,000. Noted Apr. 30.

Mass., Cambridge (Boston, P. O.)—STORE and OFFICE—Albiani Lunch Co., 150 High St., 2 story and basement, 76 x 140 ft., brick, plain foundation, 522-560 Massachusetts Ave., to Askin & Sullivan, 580 Massachusetts Ave. Archts. est. $170,000. Noted Apr. 30.

Mass., Springfield — APARTMENT — Gagnier & Angers, 327 Main St., will build 4 story and basement, 98 x 110 ft., brick and steel, Maple St., by day labor. $150,000. Private plans.

Mass., Springfield—APARTMENT—M. L. Angers, Eastern Ave., will build 5 story, 85 x 120 ft., brick, School St., by day labor. $160,000. Private plans.

Mass., Springfield—OFFICE—H. Robinson Associates, 5 story brick and steel medical office, Maple St., to E. J. Pinney Co., 274 Main St. Archts est. $175,000.

Conn., Hamden—THEATRE and STORE—C. Schneider, 42 Church St., New Haven, 1 story and basement, 80 x 140 ft., brick and steel, Dixwell Ave., here, to Smirnoff & Beers, 446 Dixwell Ave. Noted Mar. 5.

Conn., Middletown — BUSINESS — J. Poliner & Sons, Main and Ferry Sts., 3 story and basement, brick and steel, Main and Ferry Sts., to D. O'Brien & Sons, Inc., 15 McDonough Pl. Archts. est. $150,000. Noted Mar. 12.

Conn., New Haven — THEATRE and OFFICE—Seventy College Street Corp., 36 West 44th St., New York City, 5 story and basement, brick, steel and stone, plain foundation, College St., to J. D. Harrison Co., 105 West 40th St. Archts. est. $450,000. Noted Feb. 12.

N. Y., Brooklyn — APARTMENT — R. Raboff, c/o Seelig & Finklestein, archts. and engrs.; 44 Court St., will build 4 story, brick, steel and stone, plain foundation, Ocean Ave., by day labor. $250,000.

N. Y., Brooklyn — OFFICE — Bricken Constr. Co., 300 Madison Ave., New York City (owner's and contractors) will build 26 story, brick, steel and stone, plain foundation, Court and Remsen Sts. $5,500,000.

N. Y., New York—APARTMENT HOTEL—E. Ellinger, 21 East 40th St., 15 story,

Buildings—Commercial (Continued)

brick, steel and stone, plain foundation, 56-60 East 40th St., to L. K. Comstock Eng. Co., 20 East 40th St.

N. Y., New York — OFFICE and STADIUM—All subcontracts for the office and stadium at 8th Ave. between 49th and 50th Sts. awarded to James Stewart & Co., 17 East 42nd St., on Feb. 26, for $18,000,000 have been placed with exception of heating and ventilating.

Pa., Allentown — STORE — Zollinger & Harned Co., 611 Hamilton St., 4 story and basement, 86 x 230 ft., brick and steel, plain foundation, 6th and Hamilton Sts., to G. A. Hardner, Allentown. Noted Mar. 26.

Pa., Phila.—APARTMENT—Alden Park Manor Co., c/o the contractor, 9 story and basement, 45 x 172 ft., brick and steel, plain foundation, Wissahickon Ave., and School Lane to K. N. DeVos & Co., Wissahickon & Chelten Aves. Archts. est. $2,500,000.

Pa., Phila.—FIRE HEADQUARTERS—Supt. Pub. Safety, City Hall, 3 story and basement, 107 x 129 ft., rein.-con. and brick, plain foundation 1328 Race St., to M. Melody & Son, 1322 Race St., $169,000. Noted Apr. 23.

Pa., Pittsburgh—SALES and SERVICE—Pierpont Motor Co., 522 Pennsylvania Ave., 5 story, 130 x 196 ft., Baum Blvd., and Moreland St., to Conley & De Mey, 127 North Hiland Ave. Archts. est. $300,000.

Pa., Pittsburgh—STORAGE—Bell Telephone Co. of Pennsylvania, 416 7th Ave., 2 story and basement, 120 x 160 ft., brick, steel and concrete, Spahr and Ravenna Sts., to Conely & De Mey, 127 North Hiland Ave. Archts. est. $150,000.

Pa., York — Y. M. C. A., J. M. Bailey, secy., 2 and 5 story and basement, 370 x 374 ft., brick and steel, plain foundation, Newberry and Phila. Sts., to Wark Co., 1600 Walnut St., Phila. Archts. est. $650,000. Noted Apr. 23.

N. C., Durham—AUDITORIUM—Milburn, Heister & Co., archts., Union Savings Bank Bldg., Wash., D. C., general contract auditorium, here, to Blackford Constr. Co., Durham, for City $209,528. Noted Apr. 23.

N. C., Greensboro — HOTEL — C. O. Yoakum, 17 East 42nd St., New York City, 8 story, 134 x 185 ft., brick, steel and stone, plain foundation, here, to Barras Constr. Corp., 366 Madison Ave., New York City. Archts. est. $1,350,000.

Ill., Belleville—TEMPLE—Bd. Trustees Masonic Lodge St. Clair 24, general contract 2 story and basement, 92 x 120 ft., rein.-con. and brick, rubble foundation, A and Church Sts., to G. Edmondson, 145 South Virginia St. Noted Mar. 26.

Wis., Madison — GARAGE, etc. — N. W. Fox Co., West Doty St., 2 story, 122 x 131 ft., rein.-con., brick and steel, plain foundation, Broom St., to W. Conway, 2105 Jefferson St. Archts. est. $150,000. Noted Apr. 23.

Wis., Milwaukee — APARTMENT — Solidity Realty Co., c/o C. J. Keller & Son, archts., 432 Bway., 3 story and basement, 57 x 120 ft., brick, tile and concrete, plain foundation, Wells St., to Reisinger & Co., 464 Oakland Ave. Archts. est. $200,000. Former contract rescinded. Noted Apr. 30.

Wis., Milwaukee—MAUSOLEUM—Valhalla Cemetery Co., 114 Grand Ave., will build 52 x 150 ft., stone, rein.-con. and marble, plain foundation, Valhalla Cemetery, by day labor. $250,000. G. H. Leipold, 160 Martin St., archt. Noted Mar. 5.

Wis., Milwaukee — STORAGE — G. S. Kingsley, archt., 109 North Dearborn St., Chicago, Ill., 6 story and basement, 115 x 150 x 221 ft., brick and concrete, plain foundation, Prospect Ave., to W. W. Oeflein, 86 Michigan St., for Coakley Bros., 41 2nd St. $200,000. Noted Apr. 23.

Mo., Kansas City—HOTEL—C. O. Jones, 402 Continental Bldg., will build two 7 story and basement, 61 x 70 ft., rein.-con., brick and terra cotta, plain foundations, Armour Blvd. and Charlotte St., by day labor. $150,000 each. P. T. Drotts, 300 Reliance Bldg., archt. Noted Apr. 23.

Mo., St. Louis — HOTEL and APARTMENT—Ambassador Investment Co., c/o S. Koplar, 5759 Waterman St., twin 15 story and basement, 135 x 242 ft., rein.-con., brick, stone and terra cotta, Union Blvd. and Pershing Ave., to Boaz-Kiel Constr. Co., Chouteau Trust Bldg. Archts. est. $1,000,000.

Tex., Quitman—COURT HOUSE—Wood Co., c/o H. V. Puckett, judge, 3 story and basement, rein.-con., brick, steel and stone, to W. M. Rice Constr. Co., 1803 North Market St., Dallas, approximately $150,000.

Calif., Burlingame — EXCHANGE — Pacific Telephone & Telegraph Co., 333 Grant Ave., 3 story, fireproof telephone exchange building, Burlingame Ave., to Monson Bros., 251 Kearny St., $153,000.

Calif., Los Angeles — APARTMENT — California Land & Building Co., 720 Story Bldg., will build 4 story and basement, 75 x 150 ft., brick, South Kenmore Ave., by day labor.

Calif., Los Angeles—HOTEL—H. Feigenbaum, 6225 Afton Pl., 4 story and basement, 100 x 150 ft., rein.-con. and brick, South Bonnie Brae St., by day labor and sub-contracts, under supervision of H. Genser, archt., Hibernian Bldg. $175,000.

Calif., Los Angeles—STORE and LOFT—Harris & Frank, 443 South Spring St., 8 story and basement, 60 x 150 ft., rein.-con., Hill St. between 6th and 7th Sts., to J. V. McNeil Co., 5860 South Park Ave., $280,000.

Calif., Los Angeles—STORE and OFFICE—Film Exchange Co., Knickerbocker Bldg., two 2 story, 120 x 269 ft., and 120 x 120 ft., rein.-con. and brick, South Vermont Ave., to Bavin & Burch, 173 East Jefferson St., $255,000.

Calif., Los Angeles—THEATRE, etc.—West Coast Theatres, Inc., Knickerbocker Bldg., 2 story, 100 x 156 ft., rein.-con. and brick, theatre, store and office building, Vermont Ave., to Bavin-Burch, 173 East Jefferson St., approximately $225,000.

Calif., San Francisco—APARTMENT—A. M. Lai, c/o Fabre & Hildebrand, 110 Sutter St., 4 story and basement, concrete and steel, Washington St. near Kearny St., to G. P. W. Jensen, 320 Market St., approximately $160,000.

Calif., San Francisco—APARTMENT and STORE — H. E. and E. H. Norman, c/o W. F. Gunnison, archt., 57 Post Ave., will build 5 story and basement, rein.-con., Valencia and 20th Sts., by day labor under supervision of architect. $155,000.

Buildings—Educational, Religious

PROPOSED WORK

Mass., Cambridge—GYMNASIUM—Harvard University plans gymnasium, college grounds. To exceed $150,000. $125,000 donated. Engineer not selected.

Mass., Mattapan—SCHOOL—Dorchester & Mattapan Hebrew School, M. E. Schneider, pres., 25 Pemberton Sq., Boston, plans 2 story, brick school, Morton St., here. $150,000. Engineer and architect not selected.

Mass., West Springfield (Springfield P. O.) — SCHOOL — Bd. Selectmen, Town Hall, having plans prepared by M. W. Maloney, 23 Pearl St., Springfield, 2 story, brick and steel grade school, King's Highway. $150,000.

N. Y., New York — CHURCH and RECTORY—Church of Heavenly Rest, 3 East 45th St., had plans prepared by B. Goodhue, 2 West 42nd St., brick, steel and stone, plain foundation, 5th Ave. and 90th St. $2,000,000.

N. Y., St. George—SCHOOL—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 42, brick, steel and stone, plain foundation, Augusta Ave., here. $400,000.

Pa., Wayne—HIGH SCHOOL—Bd. Educ., Radner Twp., rejected bids Apr. 30, Junior High School. Will readvertise.

Tenn., Knoxville — CHURCH — Central Methodist Episcopal Church having plans prepared by R. H. Hunt, James Bldg., Chattanooga, and A. B. Bauman, associated archt., Knoxville, church at 3rd Ave. and Morgan St.

N. C., Chapel Hill—COLLEGE—State University plans remodeling and improving old South building (dormitory), on campus, $150,000; also constructing new laboratory and teachers building, $150,000. Atwood & Nash, Chapel Hill, archts.

O., Cincinnati — CHURCH — Avondale Synagogue, 658 Rockdale Ave., having plans prepared by O. Schwartz, 303 Provident Bank Bldg., Avondale Synagogue, 1 story and basement, 90 x 140 ft., rein.-con., brick and stone, plain foundation, Reading Rd. $375,000.

O., Columbus — CHURCH — St. Paul's Episcopal Church, 171 Lexington Ave., having plans prepared by Miller & Reeves, 16 South 3rd St., 2 story and basement, 75 x 120 ft., stone, Garfield Ave. between Broad and Oak Sts.

Ind., Muncie—CHURCH—First Baptist Church having preliminary plans prepared 2 story, about 100 x 150 ft., rein.-con. and brick church. $225,000.

Wis., Madison — CHAPEL — Wisconsin Branch Amer. Luther Assn., W. Graebner, pres., 356 11th Ave., Milwaukee, having plans prepared by H. C. Haeuser, 445 Milwaukee St., Milwaukee, 2 story, brick or stone, plain foundation, State St. $150,000. Noted Nov. 13.

Ia., Marshalltown — SCHOOLS—Election in June $350,000 bonds for one or more schools. Tyrie & Chapman, 1206 2nd Ave. S., Minneapolis, archts. Noted May 7.

Kan., Winfield — CHURCH — Baptist Congregation plans church. $150,000.

Tex., Mineral Wells—SCHOOL—Election soon $150,000 bonds, repairs and addition to schools. T. T. Bouldin, pres. Bd. Educ. Engineer and architect not selected.

Tex., Morton — HIGH SCHOOL — Bd. Educ. having plans prepared by W. R. Kaufman, 107 Monroe St., Amarillo, rein.-con., brick and stone high school. $150,000.

Tex., Weimar—SCHOOL—Bd. Educ., c/o B. B. Holt, mayor, plans school. $150,000. Engineer and architect not selected.

Colo., Denver — SUNDAY SCHOOL — Trinity Methodist Episcopal Church, 1800 Bdway., had plans prepared by W. N. Bowman, Central Savings Bank Bldg., 2 story, 100x125 ft., brick, stone and steel social service and sunday school, 18th St. and Bdway. $150,000.

Ore., Portland — COLLEGE — Benke-Walker Business College Corp. having plans prepared by C. K. Burdsell, Northwest Natl. Bank Bldg., 5 story, 100x100 ft., rein.-con. and timber, rock foundation, 11th and Salmond Sts. $200,000.

Calif., Los Angeles—SCHOOL—School Bd. Educ., soon takes bids 2 story and part basement, 75 x 280 ft., rein.-con. and brick, Gulf Ave., in Wilmington Dist. $150,000. H. Hewitt, 110 West 11th St., archt.

Calif., San Luis Obispo—SCHOOL—Roman Catholic Archbishop, Los Angeles, having plans prepared by E. G. Martin, Citizens Natl. Bank Bldg., Los Angeles, brick school, here. $150,000.

BIDS DESIRED

Me., Brewer—HIGH SCHOOL—City, H. R. Houston, supt. schools, taking bids 2 story and basement, 95 x 165 ft., brick and stone, Clinton and Somerset Sts. $170,000. Butterfield-Guertin Co., 801 Beach St., Manchester, N. H., archts.

Me., Camden—SCHOOL—Town, R. H. Hayden, chn. Camden School Bd. taking bids one and two story and basement, 60 x 145 ft., brick and stone. $150,000. Bunker & Savage, Augusta Trust Bldg., Augusta, archts.

N. H., Keene—DORMITORY—State Bd. Educ. W. A. Stone, purch. agt., State House, Concord, taking bids 3 story and basement 57 x 238 ft., brick dormitory, plain foundation. $250,000. C. R. Whitcher, 814 Elm St., Manchester, archt.

Mass., Acton — HIGH SCHOOL — City, E. Hall, chn. com., taking bids 2 story, 80 x 122 ft., rein.-con. and brick, plain foundation, Massachusetts Ave., "Kellys Corner." To exceed $150,000. J. H. Bickford Co., 6 Beacon St., Boston, archt. Noted Apr. 9.

Mass., Arlington (Br. of Boston) — CHURCH—Arlington First Baptist Church, H. S. Potter, pastor, taking bids 1 story and basement, brick and stone, Massachusetts Ave. and Willow Pl. $150,000. C. B. Dunham, 6 Beacon St., archt.

Mass., Cohasset—SCHOOL and AUDITORIUM—School Bd., E. W. Gammons, chn., com., taking bids 1 story and basement, 125 x 140 ft., brick and stone, Summer and South Main Sts. $150,000. W. H. McLean, 88 Tremont St., Boston, archt. Noted Mar. 26.

Mass., Lawrence — CHURCH — Park St. Methodist Church Building Comn., W. Sutton, pres., taking bids 1 story and basement, brick and stone, Park St. $150,000. J. E. Allen, 283 Essex St., Lawrence, archt.

Mass., Lowell—CHURCH—Greek Orthodox Society, taking bids 1 story and basement, 90 x 95 ft., brick and stone, plain foundation, Clark St. and Hancock Ave. $150,000. Ashton, Huntress & Alter, 479 Essex St., Lawrence, archt. Noted Apr. 16.

Mass., Quincy (Br. of Boston)—CHURCH—Wollaston Congregational Church, 1 W. Sneath, pastor, Wollaston Section, taking bids 1 story, 60 x 100 ft., granite and stone church, plain foundation, here. $150,000. Smith & Walker, 80 Boylston St., Boston, archt.

R. I., Woonsocket — HIGH SCHOOL — May 18, by School Building Com., altering and constructing 2 story and basement

Buildings—Educational, Religious (Cont.)

addition. $150,000. W. F. Fontaine, 285 Main St., archt.

Conn., Bristol—SCHOOL—School Comn. taking bids 2 story and basement, 60 x 100 ft., brick and stone school to contain sewage disposal plant, Pine St. $150,000. H. A. Hayden, 175 Main St., archt. Noted Feb. 12.

Pa., Allentown—LIBRARY—Muhlenberg College, will build 3 story and basement, 140 x 170 ft., limestone and steel, plain foundation, on Campus. Work will be done by separate contract under supervision of Ruhe & Lange, Allentown archts.

Pa., Harrisburg—CHURCH—June 1, by J. A. Dampwolf, archt., Cassatt Bldg., York, 1 story and basement, 82 x 122 ft., brick and granite, plain foundation, 17th and Market Sts., for Memorial Lutheran Church, L. Menges, pastor. $150,000.

Pa., Pittsburgh — SCHOOL — Bd. Educ., Fulton Bldg., taking bids 2 and 3 story and basement, 66 x 175 ft., addition to Gladstone School, Hazelwood Ave. $450,000. P. M. Topp, Jenkins Arcade, archt. Noted Jan. 29.

Md., Hagerstown—SCHOOL—May 24, by A. J. Klinkhart, archt., Hagerstown, 3 story and basement, 206 x 317 ft., brick and steel school, plain foundation, for Bd. Educ. $200,000.

D. C., Wash. — SCHOOL — May 29, by Dist. Comrs., Room 509 Dist. Bldg., alterations to Western High School; adv. E. N.-R. May 14.

O., Dayton — SCHOOL — June 2, by Bd. Educ., C. J. Schmidt, secy., 216 Ludlow Bldg., 2 story and basement, rein.-con. and brick, plain foundation, Troy and Leo Sts. $500,000. Private plans. Noted Apr. 16.

O., Dayton—SCHOOLS—June 2, by Bd. Educ., C. S. Schmidt, secy., 216 Ludlow Bldg., rein.-con. and brick additions to Van Cleve, Franklin and Lincoln Schools, plain foundations. $300,000. Gebhart & Schaeffer, Keith Bldg., archt. on fireproofing job. Architectural Dept. Bd. Educ., Dayton, archts. on additions. Noted Apr. 2.

Mich., Detroit—SCHOOL—McGrath, Dohman & Page, archts., 2231 Park Ave., taking bids 2 story and basement, 100 x 107 ft., rein.-con., brick and steel, plain foundation, Grand River Ave., for St. Marys Parish, Grand River and St. Marys Aves. Noted Apr. 9.

Ill., Chicago—COLLEGE—J. G. Gamble, archt., 367 Lexington Ave., New York City, taking bids group college buildings, 12 story and basement, rein.-con., brick and stone, caisson foundations, Chicago Ave. and Lake Shore Dr., here, for Northwestern University, W. Dycke, bus. mgr., 522 Davis St., Evanston. $10,000,000. Noted Dec. 18.

Ill., Chicago — COMMUNITY — J. C. Llewellyn, archt. and engr.; 38 South Dearborn St., taking bids 3 story and basement, 90 x 125 ft., rein.-con., brick and stone, plain foundation, 6400 Stewart Ave., for Englewood Baptist Church, 6248 Stewart Ave. $150,000.

Tex., Daisetta — HIGH SCHOOL — May 27, by Livesay & Wiedmann, archts., 607 San Jacinto Life Bldg., Beaumont, 3 story, hollow tile and stucco, here, for Bd. Educ. $150,000.

BIDS RECEIVED

N. J., Camden—SCHOOL—Bd. Educ., 3 story and basement, 93 x 159 ft. brick and steel, plain foundation, 36th and Cramer Sts., from G. Bachmann, 19 North 30th St., $187,575. Noted May 7.

N. J., Westfield—SCHOOL—Bd. Educ., 3 story and basement, 172 x 185 ft. brick and steel, plain foundation, Clark St. and Tuttle Parkway, from Thomas, Day & Son, Trenton, $327,004.

Pa., Phila.—SCHOOL—Bd. Educ., general contract 3 story and basement, 95 x 211 ft., Chew St. between Upsal and Sharpnock Sts., from M. Melody & Son, 1322 Race St., $398,900; heating, from W. P. Mackenzie, 1805 Sansom St., $45,997.

Pa., West Chester — MEMORIAL and AUDITORIUM — West Chester Normal School, general contract 1 and 2 story and basement, 64 x 162 ft., brick and steel, plain foundation, on campus, from V. Gondos, Reading, $265,000; heating and ventilating, from Borden & Co., 637 North 19th St., Phila. $28,060. Noted Apr. 30.

CONTRACTS AWARDED

Mass., Holden—HIGH SCHOOL—School Comn., 2 story and basement, rein.-con., brick and stone, plain foundation, to J. Nicholson & Son, 101 Tremont St. Archts. est. $150,000.

Mass., Randolph — HIGH SCHOOL — School Comn., 2 story and basement, brick and stone addition to Stetson High School, Main St., to W. Hanson, 26 Pleasant St., Brockton. Archts. est. $150,000. Noted Apr. 9.

Mass., Rockport—HIGH SCHOOL—Town Bd. Selectmen, 2 story and basement, 112 x 115 ft., brick and stone, on Town Green, near Tarr School, to F. J. Green, 290 Chestnut St., Lynn. Archts. est. $150,000. Noted Apr. 16.

R. I., Providence—CONVENT—Church of Assumption, P. J. Sullivan, pastor, 3 story and basement, brick, Dexter and Potters Ave., to Sullivan Constr. Co., Inc., 357 Westminster Ave. Archts. est. $150,000.

Conn., Hartford — CHURCH — German English Evangelical Lutheran Church, J. Kavasch, pastor, 1 story and basement, 41 x 110 ft., brick and steel, Broad and Madison Sts., to Carlson & Torrell Co., 50 Dwight St., New Britain. Archts. est. $150,000. Noted Apr. 16.

Conn., Stamford—CHURCH—Holy Name of Jesus Parish, F. M. Wladasz, pastor, 1 story and basement, brick and steel, South St., to Harris Constr. Co., 135 Main St. Archts. est. $150,000. Noted Apr. 2.

N. Y., Buffalo—SCHOOL—Bd. Educ., 900 Genesee Bldg., P. S. 72, Lorraine Ave., to Derdenger Constr. Co., Electric Bldg., $358,000. Noted Apr. 9.

Pa., Carrick — CHURCH — Spencer Ave. Methodist Episcopal Congregation, 117 Spencer Ave., 1 story and basement, 73 x 143 ft., brick and hollow tile, Church St. and Spencer Ave. to Golden & Crick, 3512 5th Ave., Pittsburgh. Archts. est. $150,000.

Pa., Charleroi—SCHOOL—School Dist. of Fallowfield Twp. 2 story and basement, in Fallowfield Twp., to Charleroi Lumber Co., Charleroi. Archts. est. $150,000.

Pa., Erie—CHURCH—Lutheran Memorial Church, C. M. Gearhart, 231 10th St., 2 story and basement, 100 x 200 ft., brick and granite, 10th and Sassafras Sts., to Constable Bros., 5th and Sassafras Sts., Archts. est. $300,000. Noted Mar. 20.

Pa., Germantown (Phila. P. O.) — CHURCH—Immaculate Conception Parish, J. M. Higgins, pastor, 1½ story and basement, 75 x 180 ft., brick and stone, plain foundation, Price and Arleigh Sts., to Doyle Co., 1519 Sansom St., Phila. Archts. est. $200,000.

Pa., Sewickley—SCHOOL—Bd. Educ., 3 story and basement, 90 x 240 ft. school, to H. Wimer, Butler, $256,000. Noted Apr. 16.

Mich., Detroit—APARTMENT—Jefferson Ave. Corp., East Jefferson Ave., 18 story and basement, 80 x 120 ft., rein.-con., brick and steel, plain foundation, to Walbridge-Aldinger Co., 2356 Penobscot Bldg.

Ill., Naperville—CHURCH—Sts. Peter & Paul Roman Catholic Congregation, B. Schuette, pastor, 2 story and basement, 100 x 150 ft., concrete, brick and stone, to Gergsted Constr. Co., Moline. Archts. est. $225,000.

Minn., Minneapolis — CHURCH and SCHOOL—Church of St. Thomas, 44th St. and York Ave. S., general contract 2 story and basement, 65 x 136 ft., rein.-con., brick, tile and stone, Upton Ave. S. and 44th St., to E. M. Ganley Co., 2922 Oakland Ave., approximately $175,000. Noted Jan. 29.

Neb., Lincoln—SCHOOL—Bd. Educ., c/o J. G. Ludlow, secy., 2 story and basement grade school, to Olson Constr. Co., 205 Chapin Bldg., $245,000.

Tex., McAllen—COLLEGE—Baptists of Texas, c/o J. M. Carroll, 209 Stratford St., San Antonio, Carroll College, 3 story and basement, rein.-con., brick and stone, administration building and dormitory, etc., plain foundation, to M. Nelson, McAllen, approximately $200,000. Noted Apr. 2.

Tex., Port Neches—HIGH SCHOOL—Bd. Educ., c/o C. C. Hawkins, pres., general contract 2 story and basement, rein.-con., brick and stone, to C. F. Low, 1245 Avenue E, Beaumont, approximately $150,000.

Tex., San Antonio — HOME — Protestant Orphans Home, 3 story and basement, rein.-con., brick and stone, plain foundation, Bandera Rd., to E. Oeffinger, Maverick Bldg., San Antonio, $163,846.

B. C., Vancouver—SCHOOLS—Bd. School Trustees, Hamilton St., 3 rein.-con., brick and tile schools, Gordon School, to Poole Constr. Co., 850 Hastings St. W., $68,037; Hastings School, to Smith Bros. & Wilson Ltd., 850 Hastings St. W., $70,111; and Charles Dickens School, to Adkison & Dill, 325 Howe St., $75,059.

Federal Government Work

PROPOSED WORK

Ark., Knowlton — Levee Work — Mississippi River Comn., Memphis, Tenn., plans levee work near here, also along St. Francis River and revetment on Arkansas River, near Farelly Lake.

Calif., Mare Island—Paving—Spec. 5092—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids Apr. 20, paving causeway here. Will readvertise. Noted May 7.

Calif., Summit—Bridge—U. S. Bureau Pub. Rds., 9 Main St., San Francisco, made plans concrete arch bridge on Auburn-Truckee Highway, near here, Placer Co.

BIDS DESIRED

Me., Ellsworth—Post Office—June 8, by Treas. Dept. at office Supervising Archt., Wash., D. C., post office and custom house, extending driveway and concrete wall.

N. H., Portsmouth—Boilers—June 8, by Treas. Dept. at office Supervising Archt., Wash., D. C., removing present boilers and installing 2 new smokeless heating boilrs in Custom House and Post Office, here; adv. E. N.-R. May 14.

Vt., Burlington — Boilers — June 10, by Treas. Dept. at office Supervising Archt., Wash., D. C., removing present boilers and installing 2 new smokeless fire box heating boilers in Post Office and Custom House; adv. E. N.-R. May 14.

R. I., Melville—Chimney—May 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., radial brick chimney, here. Noted Apr. 30.

N. Y., Brooklyn—Water Tank—May 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., elevated steel water tank, and sprinkler system, here.

N. Y., Brooklyn—Wharf Repairs—May 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., wharf repairs here.

W. Va., Hinton—Post Office—June 4, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story, brick post office, here; adv. E. N.-R. May 14.

Fla., Pensacola — Waterworks — Spec. 5054—May 27, by Bureau Yards & Docks, Navy Dept., Wash., D. C., waterworks system, here.

Fla., Tampa—Water Tanks—May 27, by Treas. Dept. at office Supervising Archt., Wash., D. C., new wood water tanks, etc., at U. S. Quarantine Sta., here.

S. C., Paris Island—Monument—May 27, by Bureau Yards & Docks, Navy Dept., Wash., D. C., monument at Charles Fort, here.

Colorado—Road—May 19, by J. W. Johnson, dist. engr., Custom House Bldg., Denver, grading 3.79 mi. Echo Lake-Chicago Creek Natl. Forest Rd., Clear Creek Co.

Calif., San Diego—Buildings, etc.—Spec. 5015—June 10, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 2 ordinance buildings and concrete road, here.

Calif., San Luis Obispo—Post Office—May 22, by Treas. Dept. at office Supervising Archt., Wash., D. C., 62 x 69 ft. post office.

H. T., Pearl—Accessories House—Spec. 5097—July 1, by Bureau Yards & Docks, Navy Dept., Wash., D. C., accessories house, here. Noted Apr. 30.

BIDS RECEIVED

N. Y., Brooklyn—Chimney—Spec. 5077—Bureau Yards & Docks, Navy Dept., Wash., D. C., radial brick chimney, from M. W. Kellogg Co., 90 West St., New York City, $14,556. Noted Apr. 23.

Ind., Newburg—Dam—U. S. Engineer Office, P. O. Box 72, Louisville, Ky., constructing Dam 47, Ohio River, (except wickets, horses and props), from U. G. I. Constr. Co., 1401 Arch St., Phila., Pa., $2,359,218, wickets, horses, props, etc., $193,291. Noted Apr. 9.

Wis., Milwaukee — Steel Barges — U. S. Engineer Office, Apr. 30, 3 steel barges, from Menasha Boiler Wks., Water St., Menasha, $31,500. Noted Apr. 2.

CONTRACTS AWARDED

Mass., Northampton—Recreation—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., recreation buildings, here, to D. A. Sullivan & Sons, Northampton, (1) $107,429 (2) $19,530 (3) $213. Noted Apr. 30.

Miss., Vicksburg — Levee Work — Mississippi River Comn., enlarging Leland Neck Dike, 100,000 cu.yd excav., to W. Owens, Jackson, $0.249 per cu.yd.; Omega New Levee, Upper Tensas Levee Dist., Louisiana, 850,000 cu.yd., excav.; to G. B. Blanks, Vicksburg, $0.214.

Ky., Louisville—Cement—U. S. Engineer Office P. O. Box 72, portland cement for Dams 45, 46, 49, 50 and 52, Lot 1, to Sandusky Cement Co., Engineers Bldg., Cleveland, O., $43,200; Lots 2 and 4, to Universal Portland Cement Co., 210 South La Salle St., Chicago, Ill., $132,400; Lots 3 and 5, to Marquette Cement Mfg. Co.,

Federal Government Work (Continued)

140 South Dearborn St., Chicago, Ill., $176,373. Noted Mar. 12.

Ky., Louisville—Lime—U. S. Engineer Office, P. O. Box 72, hydrated lime for Dams 45, 46, 49, 50 and 52, Lots 1 to 4, to Louisville Cement Co., Speed Bldg., Louisville, $14,310; Lot 5, to Natl. Mortar & Supply Co., Federal Reserve Bldg., Pittsburgh, Pa., $5,082. Noted Mar. 19.

Ark., Russellville — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story post office, to A. Blair, P. O. Box 749, Montgomery, Ala., $38,898. Noted May 7.

Tex., Galveston—Power Line—Spec. 5053—Bureau Yards & Docks, Navy Dept., Wash., D. C., electric power line, here, to O'Connell Electric Co., 857 Hudson Ave., Rochester, N. Y., $6,800 (60 days). Noted May 7.

California — Road — G. E. Goodwin, ch. civil engr. Yosemite Natl. Park, Yosemite, asphaltic concrete paving 7.75 mi. El Portal Rd. and 13 mi. valley roads, Mariposa Co., to V. R. Dennis Constr. Co., 603 Bryte Bldg., Sacramento, $335,825. Noted Apr. 30.

H. T., Oahu Island—Mooring Mast—Spec. 5088—Bureau Yards & Docks, Navy Dept., Wash., D. C., mooring mast, here, to L. R. Smith, 1576 Pensacola St., Honolulu, $29,-880 (70 days).

H. T., Pearl Harbor—Paving, etc.—Spec. 5076—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving and runway for seaplane hangar, Ford Island, to L. R. Smith, 1576 Pensacola Ave., Honolulu, $37,-800 (210 days). Noted May 7.

Unclassified

PROPOSED WORK

Athletic Field — East Boston (Boston P. O.) **Mass.**—Park Dept. 33 Beacon St., Boston, plans athletic field on land bounded by Orleans, Porter, Lamson and Maverick Sts., here. To exceed $25,000. J. B. Shea, chn.

Tunnel—New York, N. Y.—Bd. Estimate & Apportionment, Room 16 City Hall, received no bids May 8, constructing Parts 1, 2, 3 and 4, New York Section of Narrows Tunnel. Will readvertise. Noted Mar. 5.

Icing Station and Yard Extension — Raleigh, N. C.—Sea Board Air Line R.R., 107 Plume St., Norfolk, Va., plans expanding terminals and constructing an icing station to cover 4 acres land, here. W. D. Faucette, ch. engr.

Abolishment of Grade Crossings—Cleveland, O.—City and Erie R.R. Co., Scranton Ave., plan abolishing grade crossings at Harvard and Miles Aves., East 93rd, 116th, 124th and 131st Sts., $250,000. R. Hoffman, city engr.

Abolishment of Grade Crossings—Cleveland, O.—City and Wheeling & Lake Erie R.R., 626 Huron Rd. S. E., W. L. Rohboch, ch. engr., plan abolishing grading crossings at Miles Ave., East 93rd and 102nd Sts. To exceed $150,000. R. Hoffman, City Hall, city engr.

Swimming Pool, etc.—Centralia, Mo.—Made plans swimming pool, athletic field and park improvements. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, consult. engrs.

Dikes—St. Louis, Mo.—Water Dept. made preliminary plans and soon takes bids constructing Dikes 24, 25 and 26 at Howards Bend in Missouri River. $75,000. E. E. Wall, City Hall, comr. Noted Feb. 5, under "Waterworks."

Subways—Houston, Tex.—Voted $250,000 bonds, subways under Southern Pacific Railway tracks on Heights Blvd. and on Houston Ave. J. C. McVey, city engr. Noted Mar. 5.

Transmission Line—Oklahoma—City of Carter rejected bids transmission line from here to Elk City; will readvertise. $25,-000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 23.

Stadium and Athletic Field — Norman, Okla. — University of Oklahoma having plans prepared by Layton, Hicks & Forsythe, Braniff Bldg., new 1 story stadium and athletic field, on campus. Noted Feb. 19.

Bulkhead—Tacoma, Wash.—See "Streets and Roads."

Park Improvement — Long Beach, Calif.—City Park Dept. having plans prepared landscape work on Ocean Blvd. incl. walks concrete walls, etc. $75,000. F. H. Downs, supt.

Ice Skating Pavilion—Los Angeles, Calif.—Interests represented by J. O. Allen, Inc., 709 Commercial Exchange Bldg., plans 310 x 140 ft. ice skating pavilion, Vermont Ave.

Town Site — Oakland, Calif. — E. I. de Laviaga, 315 14th St., making preliminary plans for business buildings, garage, church, bank, post office, stores, etc. in Orinda section. To exceed $150,000. H. Murdock, 425 Kearney St., San Francisco, archt.

Breakwater — Leamington, Ont. — Dept. Pub. Wks., Parliament Bldg., Ottawa, plans breakwater south of here, on Lake Erie. J. A. Stevens, c/o Dept. Pub. Wks., Custom House, London, engr.

Power Line — Port Colborne, Ont. — Ontario Hydro Comn., London, A. Beck, chn., preparing plans power lines to supply Wainfleet Twp. and summer colony along lake shore. $35,000.

Grain Elevator—New Westminster, B. C.—New Westminster Harbor comrs., having plans prepared 400,000 bu. rein.-con. grain elevator, at Port Mann, near here. $300,-000. C. D. Howe & Co., Whalen Blk., Port Arthur, Ont., engrs.

Grain Elevator — Halifax, N. S. — Dominion Government, Ottawa, Ont., plans grain elevator, here, incl. 64 x 66 ft. working house, 42 x 92 ft. track shed, and 61 x 216 ft. storage house. H. M. Cameron, ch. engr. Dept. Pub. Wks., Ottawa.

BIDS DESIRED

Borings—New York—May 22, by Bd. Transportation, 49 Lafayette St., making borings along Cranberry, Clinton, Schermerhorn, Fulton, Jay, Smith and 9th Sts., Lafayette, Gates, Throop, Union, Manhattan, Prospect, Church and Gravesend Aves., Storage Yard site, Ocean Parkway, Prospect Park and private property in Brooklyn Boro; also along Van Alst, Nott and Jackson Aves., in Queens Boro, Agreement "DU."

Subway—Long Island City, N. Y.—May 15, by Bd. Transportation, 49 Lafayette St., New York City, additions and alterations to Queensboro Subway, near Queens Blvd. and Skillman Ave., Routes 36 and 37, Sects. 1 and 3, here.

Bulkhead, etc.—New York, N. Y.—May 18, by M. Cosgrove, comr. Docks, Pier A, removing existing old structures, constructing new bulkhead platforms and walls, dredging, rip rap for bulkhead platform, East 135th and 140th Sts.

Subway, etc.—New York, N. Y.—May 22, by Bd. Transportation, 49 Lafayette St., tracks, etc., for portion of 148th St. and Lenox Ave. Yard.

Greenhouses—Richmond Hill, N. Y.—May 21, by Park Bd., Dept. Parks, 64th St. and 5th Ave., New York City, 2 greenhouses in Forest Park, here.

Plumbing and Heating System — Vineland, N. J.—May 26, by Bd. Institutions & Agencies, Trenton, plumbing and heating in buildings here, for Hospital for Feeble Minded, here. $35,000. A. B. Mills, State Office Bldg., Trenton, state archt.

Lighting System—Lewistown, Ill.—May 16, by City Clerk, street lighting system on West Lincoln Ave., Main, North Adams Sts., incl. 6,200 ft. single conductor No. 8, 2,500 volt steel armored lead covered cable, twenty-five 2 x 2 x 3 ft. concrete foundations, 25 c.i. poles not less than 250 lb. each, 25 boulevard globes and 25 Mazda lamps, etc. F. M. Connolly, 432-33 Peoples Trust & Savings Bank Bldg., Galesburg, consult. engrs. Noted Apr. 2.

Stadium—Madison, Wis.—May 22, W. R. Winckler, city clk., rein.-con. and steel stadium at Stevens Athletic Field. $40,000. Claude & Starck, Badgeranne St., engr. Noted May 7.

Electric Distribution System—Winthrop, Minn.—May 25, by City, A. L. Malm, clk., electric distribution and street lighting system, pumping equipment, etc. $25,000.

Crusher Rollers — Inspiration, Ariz. — Purchasing Agent Anaconda Copper Co., 25 Bway., New York City, N. Y., taking bids four 72 in. crusher rolls for leaching plant, here, for Inspiration Consolidated Copper Co. $130,000. G. H. Booth, engr. for owner.

Sub-tunnel—Los Angeles, Calif.—Tunnels Transportation Co., 426 California Bldg., taking bids 1,500 ft. tunnel, 8½ x 16 ft. between Hill and Figueroa Sts., under existing tunnel at 2nd St., 13,000 cu.yds. excav., 5,000 cu.yds. rein.-con., 32,000 sq.ft. concrete base with asphalt surface pavement, etc. $250,000. Private plans.

BIDS RECEIVED

Borings—New York—Bd. Transportation, 49 Lafayette St., New York City, May 8, land and river borings in East River from Wall St. (Manhattan) to Cranberry St. (Brooklyn) Route 101, from Rutgers St. (Manhattan) to Jay St., (Brooklyn) Route 103, and from 53rd St. (Manhattan) across Welfare Island to Nott Ave. (Queens) Route 104, Newtown Creek, at Van Alst Ave., (Queens) Route 107 E, from Pennsylvania Drilling Co., 1812 West Carson St., Pittsburgh, Pa., $44,970. Noted Apr. 30.

Subway—New York, N. Y.—Bd. Transportation, 49 Lafayette St., May 7, constructing Sect. 6 B, of Route 78, along and under West 173rd St., from Morante & Raymond, 42 Bway., $151,900. Noted Apr. 23.

CONTRACTS AWARDED

Grain Elevator — Phila., Pa. — S. T. Wagner, engr., Reading Terminal, 73 x 145 x 160 ft., rein.-con., plain foundation, 20th and Pennsylvania Aves., to Fegles Constr. Co. Ltd., 706 1st Ave., Minneapolis, Minn. for Phila. & Reading, Reading Terminal. Noted Feb. 26.

Flood Protection—Peru, Ind.—Bd. Comrs. Peru Flood Control Dist., levee and ditch work, to Walb Constr. Co., La Grange, and Matthews Bros., Erie, Ill.; rein.-con. retaining wall, to Minnix & Clark, Flora. This corrects reports in Nov. 6 and May 7 issues.

Foundation, etc. — Cedar Rapids, Ia. — Merchants Natl. Bank, 3rd Ave., foundation and caisson work for 14 story and basement, 75 x 139 ft., rein.-con., brick, steel and stone bank and office building, 3rd Ave. and 3rd St., to Pike & Cook, 416 South 5th St., Minneapolis, Minn. Archts. total est. $800,000. Noted Mar. 13 under "Buildings—Commercial."

Park Improvements—Ft. Worth, Tex.—Park Bd., c/o G. C. Clark, supt., improvements to Burk Burnett Park, to L. L. Winans, 2127 Heaton St., $49,820. Engrs. est. $50,000. Noted Feb. 26.

Subway—Dallas, Tex.—Texas & Pacific R.R. Co., Texas & Pacific Bldg., 800 ft. concrete subway under freight yards at McKenzie St., to Southwell & Abbott, 605 East 2nd St., Ft. Worth, approximately $50,000.

Street Lighting System—Newport Beach, Calif.—Ornamental street lighting system on Coast Blvd. between 38th St. and 45th Sts. to H. M. House, San Bernardino. $30,177.

Street Lighting System—San Bernardino, Calif.—City, ornamental street lighting system on Arrowhead Ave., to Finley-Hunt Co., San Bernardino, $48,987. Noted Feb. 19.

Power Lines — Ontario — Ontario Hydro Power Comn., 190 University Ave., Toronto, will build 35 mi. power lines in Millgrove, Carlisle, Freelton and Rockton, by day labor under direction of engineers. $70,000.

Scows—Ottawa, Ont.—Dept. Pub. Wks., Parliament Bldg., constructing 2 steel scows, to Dominion Bridge Co., Beaver Hall Hill, Montreal, Que., $30,000.

Materials

BIDS DESIRED

Road Oil—Burlington, Wis.—May 22, by A. Zechel, city clk., 2 or 3 carloads road oil.

Asphaltic Road Oil—Milwaukee, Wis.—May 21, by Central Bd. Purchases, City Hall, 200,000 gal. each, asphaltic and medium light road oil.

Washed Sand and Stone—Oshkosh, Wis.—May 18, by F. C. Steiner, highway comr. Winnebago Co., approximately 4,000 cu.yd. washed sand and 8,000 cu.yd. washed stone.

Sand and Gravel — Minneapolis, Minn.—May 20, by F. S. Gram, city purch. agt., 9,000 cu.yd. sand, and 12,245 cu.yd. gravel. N. W. Elsberg, city engr.

Paving Materials—St. Paul, Minn.—May 19, by H. W. Austin, city purch. agt., 8,800 bbls. Portland cement, 6,800 cu.yd. crushed rock or gravel, 380 cu.yd. crushed rock or gravel for curb, 4,290 cu.yd. concrete sand, 490 tons asphalt, 861 tons limestone dust, etc., for paving West 7th St. between Albion St. and Snelling Bridge; 725 sq.yd. 3 in. vertical fibre brick, 2,520 bbls. Portland cement, 1,850 cu.yd. crushed rock or gravel, 130 tons asphalt, 228 tons limestone dust, etc., for paving Edgecumbe Rd. between Randolph and Scheffer Sts. G. M. Shepard, city engr.

BIDS RECEIVED

Road Oil and Binder—Milwaukee, Wis.—Central Bd. Purchases Apr. 27, from Duro Asphalt Products Co., 133 Washington St., Chicago, Ill., Spec. 1, 200,000 gal. special asphaltic road oil at $0.0839 per gal. and Spec. 2, 200,000 gal. medium light road surfacing oil $0.0571; from Amer. Tar Products Co., 2083 La Salle St., Chicago, Ill., Spec. 3, and 4, 50,000 gal. bituminous road surfacing material light and medium tar at $0.123 per gal., Spec. 5A and 5B, 150,000 gal. bituminous road binder, heavy and light tar at $0.123 per gal.

CONSTRUCTION NEWS

Engineering News-Record, May 21, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Irrigation work, Cotulla, Tex., Cotulla Irrigation Project plan bond election for irrigation work, $5,000,000.

Freight terminal, Detroit, Mich., Detroit Ry. & Harbor Terminals Co. having plans prepared, $4,500,000.

Water resources to be developed, Los Angeles, Calif., bond election, $4,500,000.

Club house, New York, N. Y., New York Athletic Club plans new building, $4,000,000.

Plant, Johnstown, Pa., Cambria Steel Co. plans to improve plant and build car shop, $2,500,000 and $500,000, respectively.

Office, Louisville, Ky., F. G. Breslin plans building, $2,500,000.

Sewage disposal plants, Camden, N. J., plans 2 sewage disposal plants, $2,338,000.

Apartment hotel, New York, N. Y., J. Goldstein and I. Teitelbaum having plans prepared, $2,000,000.

Apartment, Boston, Mass., E. N. Wyner plans building, $2,000,000.

Schools, Ft. Worth, Tex., plans to vote school bonds, $2,000,000.

Roads, Ft. Lauderdale, Fla., plan roads, $1,500,000.

Roads, Galveston, Tex., voted bonds for road work, $1,500,000.

Flood control, Brownsville, Tex., plans bonds, $1,400,000.

Harbor development, Santa Ana, Calif., plans bonds, $1,250,000.

Bids Wanted On Big Job

Club house, Brooklyn, N. Y., July 15, A. P. Brophy, Chn. Building Comn., B.P.O.E. No. 22, $4,500,000.

Bid Received On Big Job

Subway, New York, N. Y., Bd. Transportation from A. A. Johnson Corp., $3,651,000.

Large Contracts Let During Week

Auditorium, Minneapolis, Minn., City to National Constr. Co., $1,757,125.

Stadium, Philadelphia, Pa., Dept. Pub. Wks. to Turner Constr. Co., New York City, $1,377,800.

Apartment, University, Mo., University Realty Co., by day labor, $1,000,000.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
May 22	Brooklyn, N. Y.	May 14
May 26	Newton, N. C.	May 21
May 27	Providence, R. I.	May 7
May 27	Cleveland, O.	May 21
May 28	Quincy, Ill.	Apr. 30
June 1	Towson, Md.	May 14
	Adv. May 14 and 21.	
June 1	Mt. Pleasant, N. Y.	May 14
	Adv. May 14 and 21.	
June 1	Lawrence, Mass.	May 14
	Adv. May 14 and 21.	
June 1	Arlington, N. Y.	May 21
	Adv. May 21.	
June 2	Pierre, S. D.	May 21
June 8	Gainesville, Fla.	May 21
June 8	Okeechobee, Fla.	May 21
	Adv. May 21.	
June 15	Tuscaloosa, Ala.	May 21
	Adv. May 21.	
June 24	Greenville, S. C.	May 21
	Adv. May 21.	
	SEWERS	
May 25	Winona, Minn.	May 14
May 25	Long Island City, N. Y.	May 21
May 26	Isanti, Minn.	May 14
May 26	Batavia, Ill.	May 21
May 26	Whitefish Bay, Wis.	May 21
May 26	St. Paul, Minn.	May 21
May 28	Wash., D. C.	May 14
June 1	River Grove, Ill.	Apr. 23
June 1	Deerfield, Ill.	Apr. 23
June 1	Little Falls, N. J.	May 14
June 5	Lackawanna, N. Y.	May 14
	Adv. May 14 and 21.	
June 8	Maryland	May 21
	Adv. May 21.	
June 9	St. Louis, Mo.	May 21
June 9	Mt. Pleasant, N. Y.	May 21
	Adv. May 21.	
June 16	Salisbury, Md.	May 14
	Adv. May 14 and 21.	
June 16	Clewiston, Fla.	May 21
	Adv. May 21.	
	BRIDGES	
May 22	Erie, Pa.	May 7
May 22	Ohio	May 14
May 23	Chester, S. C.	May 21
May 25	New Jersey	May 14
May 25	California	May 21
May 26	Portland, Ore.	Apr. 30
May 26	New Haven, Conn.	May 14
May 26	Washington	May 14
May 26	Maryland	May 21
	Adv. May 21.	
May 26	Indiana	May 21
May 28	Winnsboro, La.	May 7
May 29	Georgia	May 21
May 30	Texas	May 21
June 1	New Jersey	May 21
June 1	Hastings, N. Y.	May 21
	Adv. May 21.	
June 2	Gadsden, Ala	May 14
June 2	Gulfport, Miss.	May 21
June 3	Minnesota	Apr. 30
June 9	Washington, D. C.	May 14
	Adv. May 14 and 21.	
June 9	Chester, Pa.	May 21
	Adv. May 21.	
June 17	Alabama	May 21
	DAMS	
June 2	Merced, Calif.	May 7
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
May 22	Ontario	May 21
May 26	Chandler, Okla.	May 14
June 5	Saulte Ste. Marie, Mich.	May 21
	Adv. May 21.	
June 15	Leesburg, Fla.	May 14
	Adv. May 14 and 21.	
	STREETS AND ROADS	
May 22	West Caldwell (Caldwell P. O.), N. J.	May 14
May 22	Ohio	May 14
May 22	Cincinnati, O.	May 14
May 22	Bexley (Columbus P. O.), O.	May 21
May 24	New Philadelphia, O.	May 21
May 25	New Jersey	May 14
May 25	Kentucky	May 14
May 25	Rankin, Pa.	May 21
May 25	California	May 21
May 25	Catskill, N. J.	May 21
	Adv. May 21.	
May 25	Cedar Rapids, Ia.	May 21
May 25	Long Island City, N. Y.	May 21
May 25	Milwaukee, Wis.	May 21
May 25	Arkadelphia, Ark.	May 21
May 26	Milwaukee, Wis.	May 21
May 26	Batesville, Ark.	May 21
May 26	St. George, N. Y.	May 21
May 26	Virginia	May 14
May 26	Washington	May 14
May 26	Maryland	May 14
	Adv. May 14 and 21.	
May 26	South Dakota	May 21
May 26	Remsen, Ia.	May 21
May 26	South Dakota	May 21
May 27	Delaware	May 7
May 27	Iola, Kan.	May 14
May 27	New York, N. Y.	May 21
May 27	Milwaukee, Wis.	May 21
May 27	Fond du Lac, Wis.	May 21
May 28	Wisconsin	May 21
May 28	Warren, Ark	May 21
May 28	Davenport, Ia.	May 21
May 28	Louisiana	May 7
May 28	Pontiac, Mich.	May 14
May 28	Anderson, Tex.	May 14
May 28	Louisiana	May 14
May 28	Clinton, N. J.	May 14
May 28	New Jersey	May 21
May 28	Poughkeepsie, N. Y.	May 21
	Adv. May 21.	
May 28	North Dakota	May 21
May 28	Nebraska	May 21
May 29	Lake City, Fla.	May 7
May 29	Huntsville, Tex.	May 7
May 29	Wisconsin	May 21
May 29	Nebraska	May 21
May 29	Tampa, Fla.	May 21
May 29	Arkansas	May 21
May 29	Council Bluffs, Ia.	May 21
May 29	Georgia	May 21
May 30	Bucoda, Wash.	Apr. 30
June 1	Seattle, Wash.	May 21
June 1	Kalama, Wash.	May 21
June 1	Ontario	May 21
June 1	Duluth, Minn.	Mar. 12
June 1	Lisbon, O.	May 7
June 1	Welland, Ont.	May 14
June 1	New Jersey	May 21
	Adv. May 21.	
June 1	New York	May 21
	Adv. May 21.	
June 2	Louisiana	May 14
June 2	Akron, O.	May 21
June 2	Anderson, Tex.	May 21
June 2	St. Louis, Mo.	May 21
June 2	North Dakota	May 21
June 3	Ocean Grove, N. J.	May 21
	Adv. May 21.	
June 3	North Dakota	May 21
June 3	Alabama	May 21
June 4	Virginia	May 21
	Adv. May 21.	
June 5	Cameron, Tex.	May 21
June 8	Kentucky	May 21
June 10	Duluth, Minn.	Apr. 9
June 17	Phila., Pa.	May 21
	Adv. May 21.	
	BUILDINGS—INDUSTRIAL	
June 1	Duluth, Minn.	May 21
June 10	Superior, Wis.	May 21
	BUILDINGS—COMMERCIAL	
May 25	Brooklyn, N. Y.	May 21
May 25	Milwaukee, Wis.	May 21
May 26	Boston, Mass.	May 21
May 26	Long Island City, N. Y.	May 21
May 27	Daisetta, Tex.	May 14
June 1	East Boston (Boston P. O.), Mass.	May 21
June 2	Walters, Okla.	Apr. 23
June 3	Miller, S. D.	May 14
June 3	Central Islip, N. Y.	May 14
	Adv. May 14 and 21.	
July 14	Phila., Pa.	Feb. 19
July 15	Brooklyn, N. Y.	May 21

Bids Close		See Eng. News-Record

BUILDINGS—EDUCATIONAL, RELIGIOUS

May 22	Attleboro, Mass.	May 21
May 23	Shawnee, O.	May 21
May 23	Phila., Pa.	May 21
May 24	Hagerstown, Md.	May 14
May 26	Reading, Pa.	May 21
May 27	San Francisco, Calif.	May 7
May 28	Marengo, Ia.	May 21
May 29	Wash., D. C.	May 14
June 1	Harrisburg, Pa.	May 14
June 1	Cleveland, O.	May 21
June 2	Dayton, O.	May 14
June 10	Evanston, Ill.	Apr. 23

FEDERAL GOVERNMENT WORK

May 26	Hospital—Lake City, Fla.	Apr. 30
May 27	Tow-boat—St. Louis, Mo.	Apr. 23
May 27	Waterworks — Pensacola, Fla.	May 14
May 27	Water Tanks—Tampa, Fla.	May 14
May 27	Monument—Parris Island, S. C.	May 14
May 28	Steel, etc.—Wash., D. C.	May 21
June 1	Accessories House—Pearl Harbor, H. T.	May 14
June 4	Post Office—Hinton, W. Va. Adv. May 14 and 21.	May 14
June 8	Boilers — Portsmouth, N. H.	May 14
June 8	Post Office—Ellsworth, Me.	May 14
June 10	Boilers—Burlington, Vt. Adv. May 14 and 21.	May 14
June 10	Buildings, etc.—San Diego, Calif.	May 14
June 10	Remodeling—Pittsburgh, Pa. Adv. May 21.	May 21
June 11	Post Office — Vineland, N. J. Adv. May 21.	May 21
June 11	Breakwater—Ohio Adv. May 21.	May 21
June 15	Barge—Montgomery, Ala. Adv. May 21.	May 21
June 15	Rop 1—Colorado	May 21
June 16	Heating Plant—Mobile, Ala.	May 21
June 16	Electric Light Plant—Brunswick, Ga.	May 21
June 16	Fire Alarm System—Whipple Barracks, Ariz.	May 21
June 16	Cable, etc.—Whipple Barracks, Ariz.	May 21
June 17	Heating System—New Orleans, La.	May 21
June 18	Incinerator—New Orleans, La.	May 21
June 19	Remodeling—Norwich, Conn.	May 21
July 29	Hospital—Canacao, P. I.	May 21

UNCLASSIFIED

May 22	Borings—New York,	May 14
May 22	Subway, etc.—New York, N. Y.	May 14
May 25	Distribution System—Winthrop, Minn.	May 14
May 25	Athletic Field—Cleveland, O.	May 21
May 26	Plumbing and Heating—Vineland, N. J.	May 14
May 27	Fire Alarm System—Ogdensburg, N. Y.	Apr. 30
May 27	Sea Wall—Gulfport, Miss.	May 7
May 28	Oil Engine — Generator, etc.—Ponco City, Tex.	May 14
May 29	Inspection Shed—Long Island City, N. Y.	May 21
June 11	Dock, etc.—Baton Rouge, La. Adv. May 21.	May 21
June 16	Electrical and Refrigerating Equipment — New York, N. Y.	May 21
June 17	Heating System—Geneva, N. Y. Adv. May 21.	May 21

MATERIALS

May 22	Crushed Stone, etc.—Cleveland, O.	May 21
May 25	Road Oil—Appleton, Wis.	May 21
May 25	Cement—Long Island City, N. Y.	May 21

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. J., Browns Mills — State Utility Bd. ordered browns Mills Water Co., to install new 20,000 gal. water tank at plant. Engineer not selected.

Fla., Clearwater—Plans election $190,000 bonds extending water mains. C. Mason, city mgr.

Fla., Dundee—Election May 19, $25,000 bonds for waterworks. J. L. Olson, city clk.

Fla., Pablo Beach—Voted $135,000 bonds, waterworks improvements and extensions. J. A. Bussey, mayor.

Miss., Tylertown — Making preliminary plans waterworks and distribution system. $40,000. H. A. Mentz, Magnolia, engr.

O., Avon—Cleveland Electric Illuminating Co., Illuminating Bldg., Cleveland, plans 309 ft. intake and overflow tunnels, 600 x 700 ft. basin, and 2 breakwaters, 105,400 tons stone, etc., here. J. Wolf, Illuminating Bldg., Cleveland, engr.

O., Columbus—See "Streets and Roads."

Wis., Hillsboro — A. Webster, city clk., plans new waterworks. $60,000. Engineer not selected.

Wis., Marinette — S. O'Shea, city clk., making plans c.i. mains in Marinette Ave. $30,000. A. L. Hillis, City Hall, engr.

Wis., Milwaukee—Bd. Pub. Wks. withdrew bids Apr. 28, 224,428 ft. 6- to 12-in. c.i. mains in various streets. Will readvertise.

Wis., West Milwaukee (Milwaukee P. O.) —Making plans 2 mi. 6 and 8 in. mains in Hilldew subdivision. To exceed $15,000. Orbert & Gohn Eng. Co., 1st Natl. Bank Bldg., West Allis, engrs.

Ia., Henderson—Plans waterworks. $20,000. G. T. Harover, city clk.

S. D., Rockham—Plans election $27,500 bonds for waterworks. Engineer not announced. C. A. Smith, city clk.

Tex., Goree—Voted $35,000 bonds, waterworks improvements, incl. drill, 15 ft. diam. well, 50,000 gal. steel tank on 100 ft. tower, etc. Montgomery & Ward, 1016 City Natl. Bank Bldg., Wichita Falls, engrs. Noted Apr. 9.

Tex., Mathis—State Bd. Water Engineers selected site on Nueces River, near here, for dam to supply water to city of Corpus Christi, and for irrigation purposes in territory adjoining Corpus Christi. $1,000,000 or more. Address P. G. Lovenskiold, Corpus Christi, mayor.

Tex., Richmond—Election soon $25,000 bonds waterworks extensions and additional fire plugs. Engineer not announced.

Okla., Blackwell — Voted $15,000 bonds for 8,000 ft. 10 in. c.i. force mains from river to filtration plant. W. Ritzhaupt, Jr., Blackwell, engr.

Ariz., Gilbert—Voted $40,000 bonds for waterworks. Noted Apr. 23.

Ore., Oswego—Making plans new waterworks. $250,000. H. L. Gilbert, Council Bldg., Portland Bldg., engr.

Calif., East San Diego (San Diego P. O.) —Plans election $200,000 bonds, to finance water distribution system.

Calif., Los Angeles—Election June 2, $4,500,000 bonds to purchase lands and develop water resources in Owens Valley; also $2,000,000 bonds, preliminary work on Colorado River aqueduct.

Calif., Montebello—Plans election $325,000 bonds for water system, incl. distributing lines, etc. L. C. Herr, city clk.

Calif., Orosi—Public Utility Dist. made plans 11,000 ft. trenching and laying 2- to 8-in. pipe line, etc., in various streets. Switzer & Moye, Visalia, engrs.

BIDS DESIRED

N. Y., Arlington — June 1, by Water Comrs., Fire House, c.i. pipe, specials, etc. O. A. D'Luhosch, 54 Market St., Poughkeepsie, consult. engr.; adv. E. N.-R. May 21.

N. C., Greenville — June 24, by Water Comn., 30 in. c.i. gravity pipe line, lock joint rein.-con., or lock bar steel 18 mi. long, etc. J. L. Ludlow, Winston-Salem, consult. engr.; adv. E. N.-R. May 21.

N. C., Newton — May 26, by L. H. Phillips, mayor, and Bd. Alderman, 7,500 ft. 4 and 6 in. water pipe and 7,000 ft. 8 in. sewer in various streets. Spoon & Lewis, 407-9 Amer. B nk Bldg., Greensboro, engrs.

Fla., Gainesville—June 8, by City Council, G. H. Cairns city mgr., 37,000 lin.ft. 6- to 16-in. c.i. mains etc., and 47,000 lin.ft. 8- to 21-in. terra cotta or concrete sewers etc. in various streets. E. V. Camp and associates, 1 North Maryland Ave., Atlanta Ga., Hill Bldg., Jacksonville, and Bartow, consult. superv. and testing engrs.

Fla., Okeechobee — June 8 (extended date), by Mayor and City Council, H. H. De Yarman, pres., water extensions improvements. F. E. Lawrence, Okeechobee, engr.; adv. E. N.-R. May 21.

Ala., Tuscaloosa — June 15, by Water Works Comn., C. E. Abbott, mgr., filtration plant improvements and additions, also filter equipment. Morris Knowles, Inc., 507 Westinghouse Bldg., Pittsburgh, Pa., engrs.; adv. E. N.-R. May 21.

O., Cleveland—May 27, by Comrs. Cuyahoga Co., c.i. mains in Starr Ave., East 140th and 146th Sts., Impvts. 559 and 560. F. R. Williams, Court House, engr.

O., Cleveland — May 29, by City, 36 in. first high service water main in Ridge Rd., Sect. 4. To exceed $100,000. A. V. Hamlin, Court House, engr.

S. D., Pierre—June 2, by Capitol Comn., J. Erickson, asst. supt., concrete pump house, intake, fire mains, etc., on Capitol Grounds. T. Soleglad, acting highway engr.

Tex., Jayton—Taking bids waterworks and improvements, incl. tank on tower, 3 or 4 mi. 6 in. mains from present reservoir, etc., $50,000. Montgomery & Ward, 1016 City Natl. Bank Bldg., Wichita Falls, engrs. Noted 26.

Okla., Grandfield — G. H. Hoefer, city mgr. in market for 2 new motor driven pumps 200 g.p.m. each against 300 ft. head. Motors to be 30 hp. each.

Okla., Pauls Valley—R. E. Braden, city supt. in market for 2 new double stroke deep well pumps, 80 g.p.m. each, with 12½ hp. motors.

Ont., Crystal Beach—May 29, by P. E. Ryan, reeve, 1,450 ft. 18 in. steel intake with intake crib, 1 story, 45 x 64 ft. concrete, brick and ste l pumphouse, hot water heating system, 750,000 gal. pressure filters 500 and 1,000 gal. electric centrifugal pumps, 100,000 gal. elevated steel water tank, etc. $50,000. E. H. Darling, 47 Home Bank Bldg., Hamilton, engr.

BIDS RECEIVED

Md., Baltimore—Bd. Awards, superstructures of chemical, filter and shelter buildings, pumping station and garage, etc., at Montebello Ave., from Consolidated Eng. Co., 20 East Franklin St., $314,551 (240 days). Noted May 7.

Wis., Milwaukee—Dept. Pub. Wks., 13,019 ft. 6 in. pipe, from F. E. Kaminski, 745 46th Ave., West Allis, $10,338; 7,644 ft. 8 in. and 1,935 ft. 12 in. pipe, from Wenzel & Henoch Co., 498 27th St., $4,443 and $9,034 respectively. Noted May 7.

Wis., Milwaukee—Dept. Pub. Wks., May 7, for 5,500 ft. 54 in. c.i. mains in Burleigh St. between 35th and 51st Sts., from Nevada Constr. Co., Nevada, Ia., $66,000. Noted Dec. 18.

B. C., Vancouver—City Clerk, City Hall, 14 mi. 36 in. steel pipe, from Vancouver Eng. Wks., 6th Ave. and Cambie St., $500,324. Engrs. est. $500,000. Noted Apr. 23.

CONTRACTS AWARDED

N. H., Jaffrey—Com. Additional Water Supply. Selectmens office, East Jaffrey, masonry dam on Mead Brook, Contr. A, and c.i. pipe line connecting existing mains at Jaffrey Center, Contr. B, to G. Serullo & Co., 31 North Sq., Boston, Mass. Noted Apr. 30.

Md., Baltimore—Bd. Awards, 3 Venturi meter tubes and special registers to Water Dept., f.o.b. Baltimore, to Builders Iron Fdry., Codding St., Providence, R. I., $12,740. Noted May 21.

Md., Towson — Comrs. Baltimore Co., mains in Colgate and Essex, Contracts 2W and 3W, to Chesapeake Constr. Co., 216 St. Paul St., Baltimore, $80,145. Noted Apr. 2.

O., Cleveland — Cuyahoga Co., mains in Highland Park Subdivision, Impvt. 556, to Iafornaro & Son, 2280 Murrey Hill Rd., $21,420. Noted May 7.

O., Cleveland—Cuyahoga Co., 7,500 ft. 12 in. c.i. mains in Wallings Rd., Impvt. 86, to E. Cesa, 2194 Stearns Rd., $37,463. Noted May 14.

O., Maple Heights (Bedford P. O.) — See "Sewers."

O., Rocky River — Realty Underwriters Co., 6 and 8 in. mains in various streets, to Sprague & Burkhardt, 11812 Browning Ave., Cleveland, $21,000.

Mich., Detroit — Bd. Water Comrs., to Lynchburg Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., 500 tons 12 in. c.i., 1,142 tons 16 in. and 1,500 tons 30 in. pipe, all $42.82 per ton; to Standard Cast Iron Pipe & Fdry. Co., Atlanta, Ga., 2,000 tons 24 in. c.i. pipe $43.92; to J. B. Clow & Sons, Franklin and Harrison Sts., Chicago, Ill., 460 tons 24 in. c.i. pipe, $44.20 per ton; to B. Nicoll & Co., 294 Madison Ave., 3,300 tons 30 in. c.i. pipe, $41.95; to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., 1,450 tons 30 in. and 525 tons 42 in. c.i. pipe, $43.85 per ton.

Waterworks (Continued)

Mich., Iron Mountain—City, 6,000 ft. 16 in. de Lavand bell and spigot pipe, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., $16,260.

Ill., Winthrop Harbor—Bd. Local Impvts. extending mains in 11th St. and College Ave., to Sieg Constr. Co., Waterloo, Ia., $9,791. Engrs. est. $10,725. Noted Apr. 30.

Wis., Green Bay — J. Du Charne, clk. Allouez Twp., 100,000 gal. steel, tank on 120 ft. steel tower, to Pittsburgh-Des Moines Steel Co., 38 South Dearborn St., Chicago, Ill., $8,632; 15,582 ft. 6- to 10-in. c.i. pipe, and 7 tons fittings, to Natl. Cast Iron Pipe Co., 122 South Michigan Blvd., Chicago, Ill.; laying above pipe and fittings, to Brogan & Sons, 700 Dousman St.; 15 tons lead, to Traverse City Iron Wks., Traverse City, Mich. Noted Apr. 23.

Minn., Minneapolis — F. S. Gram, city purch. agt., riveted steel pipe and fittings for new filter plant (under construction), to J. McNell & Bro., 29th St., Pittsburgh, Pa., $33,170.

Minn., Stillwater — Bd. Water Comrs. rein.-con. reservoir, to Berg Constr. Co., Hudson, $10,872; steel stand pipe, to Pittsburgh-Des Moines Steel Co., Tuttle and 10th Sts., Des Moines, Ia., $7,750. Noted Apr. 16.

Minn., Waseca—Water & Light Bd., H. E. Isker, mgr., drilling well approximately 770 ft. deep, to McCarthy Well Co., Wabasha and Eustis Sts., St. Paul, $12,345; deep well pump, to J. G. Robertson & Co., 2542 University Ave., St. Paul, $7,687; well house, to H. Wyke & Co., Waseca, $2,200. Grand total $22,232. Noted Apr. 16.

Ark., Brinkley—Arkansas Light & Power Co., Pine Bluff, will build water softening plant, here, by day labor. Private plans. $40,000. H. O'Neill, c/o owner ch. engr.

Tex., Dallas—Oakland Development Co., c/o R. L. Ferguson, Magnolia Bldg., waterworks and sewer improvements in new 74 acre district not yet named, to A. B. Lee, 811 Park View, approximately $35,000.

Calif., Elsinore—For waterworks, to C. Fisher, Chapman Bldg., Los Angeles, $131,738.

Sewers

PROPOSED WORK

N. J., Camden—Plans 2 sewage disposal plants on Delaware River, between 30th and 32nd Sts. and on Newton Creek, south of Morgan Blvd. on line with 8th St., pumping stations, etc. $2,338,000. Remington & Vosbury, 509 Cooper St., engrs.

W. Va., Huntington — Election May 25, $801,000 bonds for sewers in various streets. A. B. Maupin, city engr.

Fla., Clearwater—Plans election $58,000 bonds extending sewerage system. C. Mason, city mgr.

Fla., Haines City—Election June 5, $45,000 bonds, sanitary sewers in various streets. E. C. Bryan, mayor.

Fla., Pablo Beach—Voted $120,000 bonds, sewer improvements and extensions in various streets. J. A. Bussey, mayor.

O., Alliance—Plans to purchase site and construct new sewage disposal plant to take place of one now in operation, also extend sewers in various streets. $800,000. G. B. Gascoigne, 648 Leader-News Bldg., Cleveland, engr.

O., Columbus—See "Streets and Roads."

O., Massillon—Soon takes bids sanitary sewers in East Walnut, Cherry, Guy, West Main and Buchel Sts., etc. $25,000-$50,000. C. E. Rice, city engr.

Ill., Blue Island — Making preliminary plans combined storm water and sanitary sewerage system for western section of city. $200,000. A. L. Fox, 160 North La Salle St., Chicago, engrs.

Ill., Carbondale — Making preliminary plans sanitary sewerage system in southwest section. P. B. Wilson, Marion, engr.

Ill., Jonesboro — B. Gwahler, city clk., takes bids about June 1 disposal plant, 8 and 10 in. sanitary sewers, etc. in various streets. $40,000. W. A. Fuller Co., Railway Exch. Bldg., St. Louis, Mo., engrs. Noted Feb. 19.

Wis., West Milwaukee (Milwaukee P. O.) —S. J. Brew, village clk., making plans 2 mi. vitr. or concrete sewers in Hilldew subdivision. To exceed $25,000. Orbert & Gohn Eng. Co., 1st Natl. Bank Bldg., West Allis, engrs.

Ia., Council Bluffs—Making preliminary plans 14,205 ft. 6- to 18-in. vitr. clay sewers, etc., in South 10th, South 11th and 16th Aves. J. H. Wayne, city clk.

Tex., Austin—Election June 11, $75,000 bonds, extending sewers in various streets. C. E. Leonard, city engr.

Tex., San Angelo—Takes bids after May 30, sanitary sewerage system and disposal plant. $275,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Apr. 30.

Calif., Los Angeles—Made plans sewers in Boyle Heights Storm D. D. 3, 12,000 ft. 6- to 21-in. cement and 12,500 ft. 12- to 45-in. monolithic concrete or rein.-con. storm drain pipe, etc. H. A. Van Norman, city engr.

Calif., Placentia — Placentia Sanitary Dist., made plans 7,735 ft. vitr. and 22,921 ft. 8- to 12-in. sewers, etc., in various streets. W. G. Knox, Ramona Bldg., Santa Ana, engr.

Calif., Stockton — Making plans storm water sewers in North Stockton Sect. $40,000. W. B. Hogan, city engr.

BIDS DESIRED

N. Y., Long Island City — May 25, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Borden, Greenpoint, Cooper, Griffith, Fisk, Jamaica and Hillside Aves., Fairmount, Sherwood, Market and 137th Sts.

N. Y., Mt. Pleasant — June 9, by F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, White Plains, sewers and disposal plant at Grassland Hospital at East View, here. Waring, Chapman & Farguhar, 874 Bway., New York City, engrs.; adv. E. N.-R. May 21.

N. Y., Poughkeepsie — See "Streets and Roads."

Maryland—June 8, by Comrs. Baltimore Co., Court House, Towson, sewers in Towson, Stoneleigh, Anneslie and Idlewylde. A. E. Walden, ch. engr.; adv. E. N.-R. May 21.

N. C., Newton—See "Waterworks."

Fla., Clewiston—June 16, at office of F. D. Duff, secy. Sugarland D. D., complete oil engine driven drainage pumping plant, 180,000 g.p.m. capacity. Elliott & Harmon Eng. Co., Memphis, Tenn., or Clewiston, engrs.; adv. E. N.-R. May 21.

O., Akron—June 2, by W. F. Peters, dir. Pub. Serv., rebuilding 1,700 ft. 12- to 15-in. vitr. clay and 4,350 ft. 30- to 63-in. brick sewers preliminary to abolishing grade crossings at Buchtel Ave. and Exchange St., Contr. 1. $150,000. J. E. Root, Delware Bldg., engr. Noted Apr. 23.

Ill., Batavia—May 26, by City, in Council Chambers, City Hall, sewage purification plant in South Dist. and one in North Dist., each incl. tanks, buildings, excav., manholes, etc. $7,267 and $15,420 respectively. Wells Eng. Co., Court House, Geneva, engr.

Wis., Whitefish Bay—May 26, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., Milwaukee, 9,350 lin.ft. 42 in. concrete sewers, etc., in Whitefish Bay extension, here. T. C. Hotten, c/o owner, engr.

Minn., St. Paul—May 26, by H. W. Austin, city purch. agt., constructing Belt Line, Phalen and Hazel Park sewers, Contr. K, 273 ft. 9 ft. circular sewer, 1,747 ft. 7 ft. and 2,487 ft. 6 ft. concrete and 2,290 ft. 18- to 35-in. vitr. pipe, etc. $150,000. G. M. Shepard, city engr.

Mo., St. Louis — June 9, by Bd. Pub. Wks., 208 City Hall, sanitary sewer in Harlem Creek Dist. 16, approximately 8,345 ft. 8- to 36-in. vitr. clay, brick and segmental block pipe. $35,500. W. W. Horner, 300 City Hall, engr. Noted Jan. 1.

Calif., Los Angeles—Bd. Pub. Wks. taking bids Sect. 23, North Outfall sewer, incl. 14,000 common sewer brick, 94,000 lin.ft. vitr. clay lining bricks, 5,000 tons crushed rock or screened gravel, 11,000 bbl. cement, etc. H. A. Van Norman, city engr. To exceed $25,000.

BIDS RECEIVED

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, May 14, **(e. e. means engrs. est.)** sewer in Gravesend Neck Rd., from Manmill Constr. Co., 2035 Douglas St., 66.3% e. e. $6,065, in 48th St., from S. J. Coenzo, 678 Glenmore Ave., 79.5% e. e. $797, Liberty Ave., from C. Ambrosio, 1016-60th St. 63% e. e. $700.

N. Y., New York — H. Bruckner, pres. Bronx, 3rd and Tremont Aves., May 14; sewers, etc., in Cornell Ave. from C. W. McDonald, 1910 Webster Ave., $538,166, in East 242nd St., from Spadaro & Turiamo, 3185 East Tremont Ave., $4,718. Noted May 7.

Md., Baltimore — Bd. Awards, storm sewers in Sewer Dist. J-8, from F. Angelozzi, 238 Albemarle St., $196,295.

O., Cleveland—Comrs. Metropolitan Park Dist. 1,500 ft. 4 x 11½ ft., concrete conduit in Big Creek Parkway, from Gantose Constr. Co., Columbia Bldg., $39,415.

O., Euclid—Village, 8,030 ft. 36- to 48-in. sanitary sewer in Cut Rd., from N. Carrocio, 14109 Benwood St., Cleveland, segmental block $78,465, from D. M. Zullo, 706 The Arcade, Cleveland concrete $86,480; from C. W. Jackson, 1318 East 84th St., Cleveland, brick $92,700.

Wis., Milwaukee—Dept. Pub. Wks., May 6, from G. Zimmermann, 3402 Grand Ave., vitr. clay storm and sanitary sewers in Atkinson Ave. between Litchworth Pl. and 27th St. $1,077, 23rd St. $2,952, 24th St. $2,913, West 24th St. $3,066, 25th St. $2,985 and 26th St. $3,487, all above between Lake and Hope Sts.; from J. J. Shabart, 1003 41st St., in Ludlow Ave. between New York and Delaware Aves., $1,700; from Milwaukee Sewer & Drainage Co., 928 Humboldt Ave., in 50th St. between North and Lisbon Aves. $1,058, and 27th St. between Lake St. and Atkinson Ave., $10,793; from Wenzel & Henoch Co., 498 27th St., in Garfield Ave. between Barclay St. and point 475 ft. east, $12,466.

Wis., Milwaukee — J. H. Fowles, secy. Sewerage Comn., 508 Market St., May 8, from Wenzel & Henoch Co., 498 27th St., 4,021 lin.ft. 21 in. terra-cotta pipe $27.47 per ft. and 281 lin.ft. 18 in. terra cotta pipe at $25 per ft., one 10 in. c.i. pipe siphon at $4,500, 181 vertical ft. standard manholes $16 per ft. Noted Apr. 30.

Calif., Alhambra—From Campbell Constr. Co., 350 Merrick St., Los Angeles, constructing Sewer Dist. 12, 60,418 ft. 8 in. vitr. pipe at $1.07, 2,144 ft. 4 x 8 in. wye branches at $0.70, one thousand six hundred and eighty-eight 4 in. house sewers at $25.96, total $130,082. Noted April 9.

Calif., Palo Alto—Storm water sewers in Oregon Ave., etc., also vitr. sewers in South Palo Alto Dist., from Oakland Sewer Constr. Co., 386 15th St., Oakland, $31,356 and $23,124 respectively. Noted Apr. 30.

CONTRACTS AWARDED

Pa., Phila.—Dept. Pub. Wks., Bureau Engineering, to O'Neill Co., 127 East Mermaid Lane, main sewer in Caster Ave., $142,821, branch sewer in Mermaid Lane, $29,245; to Vare Constr. Co., 1120 Race St., main sewer in Magee Ave. $70,116, branch sewer in Chelham St. $21,141; to R. P. Ryan, 2923 West Lehigh Ave., main sewer in Summerdale Ave. $16,514, branch sewer in Balfour St. $34,364; to A. Di Sandro & Son, 3906 North 5th St., branch sewer in Bleigh St. $6,510, Frankfort St. $8,829, Ryan St. $5,511, to A. Perna & Son, 752 South 10th St., Cadwallader St. $4,304, to A. J. Henderson, East Washington Lane and Reading Ry., Cedar St. $5,377, 20th St. $7,675, to J. J. McHugh, 1617 Race St., Coleman St. $9,630, Jackson St. $4,189, to A. Cascrato, 1602 Wharton St., Cottage St. $4,420, Princeton St. $5,882, to A. Frunzi, 513 High St., Crittenden St. $8,816, to E. Pascuzzi Co., 601 Lincoln St., Erie St. $13,895, to P. Ventresco, 6225 Chew St., Frankford St. $14,192, to Vattieri & Pontarelli, 523 Rising Sun Lane, Huntington Park Ave. $8,800, N St. $3,452, Sedgley St. $14,633, Torresdale St. $19,063, to J. Hastie, 601 East Hilton St., Jackson St. $6227, to A. Bonitatibus, 300 West Mt. Pleasant Ave., Rutland St. $5,494, to A. Mattia, 310 West 65th St., Wakeling St. $2,812, to E. F. Bennis, 825 East Washington Lane, Wayne St. $6,986. Grand total $480,898. Noted Apr. 30.

Ala., Florence — Sanitary and storm sewers in 10 blocks various streets, to Sullivan-Long & Hagarty, 19th St., Bessemer, $43,273. Engrs. est. $44,000.

Tenn., Butler—See "Waterworks."

O., Columbus—City, 2,000 ft. 48 in. storm sewer in Wheatland Ave., 5,340 ft. 20- to 78-in. in Richardson Ave., and 569 ft. 15 in. in Mound St., to H. E. Miller Contg. Co., 938 South High St., $26,972; also 810 ft. 48 in. sewer Torrence Run, to B. Conini, 1705 Shawnee Ave., $4,563. Noted Apr. 23.

O., Maple Heights (Bedford P. O.) —Sewer and water mains in 6 streets, to Curro & Whittaker, 12208 Mayfield Rd., Cleveland, sewers $62,600, and water mains $31,000.

Mich., Detroit—To Western Constr. Co., 1208 Ford Bldg., Lateral 4321 $5,392, Lateral 4331 $6,352; to Waterway Constr. Co., Detroit, Lateral 4342 $2,949; to J. and A. Pontarelli, 2137 Pierce Ave., Lateral 4344 $8,500, Lateral 4348 $2,750, Lateral 4351 $16,642; to Michigan Constr. Co., 400 Penobscot Bldg., Lateral 4332 $8,611; to W. Blanck & Co., 40 Seven Mile Rd. E., Livernois-Curtis Ave. Arm, Sect. 1, Six Mile Rd. Sewer $63,195, and Livernois-Curtis Ave. Arm, Sect. 2 $86,662; to Detroit Drainage Constr. Co., 5099 Lemay Ave., 14th Ave. Arm Sewer $18,306, Waveney Ave. Arm of Bedford Rd. Sewer

Sewers (Continued)

$36,320, Lateral 4329 $11,000, Lateral 4344 $18,737, Lateral 4338 $7,800; to S. Healy, 6466 Epworth Blvd., Waveney Ave. Arm Ashland Ave. Sewer $31,654; to Lincoln Constr. Co., 12337 Indiana Ave. Lateral 4337 $1,250. Noted May 14. Grand total $326,120.

Ill., Blue Island—Intercepting flood relief sewers in Special Assessment Dist. 279, to Higgins, Dyer & Co., International Life Bldg., St. Louis, Mo., $98,879.

Ill., Rockford—Bd. Local Impvts. 33,932 ft. 6- to 15-in. vitr. salt glazed sewers in Welty Addition, to G. W. Mulholland, 2025 Oxford St., $43,000; 7,589 ft. 6- to 10-in. vitr. salt glazed sewers in Grant Ave. and Burton St., to C. E. Hughes, Rockford, $11,000.

Ia., Cedar Rapids—Storm sewers in various streets, 3,588 ft. 4½- to 6-ft. segmental block, 4,480 ft. 4½- to 6¼-ft. 2 ring brick and 66,280 ft. concrete pipe, etc., also smaller sanitary sewer, to T. Johnson, Eagle Grove, $55,269 and $9,025 respectively; concrete surfacing various streets, to Hahn Constr. Co., 1109 12th Ave. W. $6,851. Noted Apr. 23.

Calif., Garden Grove — Garden Grove Sanitary Dist., to Drainage Constr. Co., Santa Ana, interior sewage system, 18,062 ft. 6 in. vit. pipe $1.10, 13,385 ft. 8 in. vitr. pipe $1.25, 1,373 ft. 10 in. vitr. pipe $1.38, 4,745 ft. 12 in. vitr. pipe $1.48, etc., total $56,857.

Calif., Santa Barbara — City Council, rein.-con. storm drains etc., in portions of Laguna, Ortega Sts., etc., known as East Side Drainage Project, 83½ ft. vitr. pipe, 15,528 ft. 18- to 54-in. rein.-con pipe, 509 ft. rein.-con. box culvert, etc., to Cornwall Constr. Co., 227 Equestrian St., $123,515. Noted Apr. 23.

Waste Disposal

BIDS RECEIVED

N. Y., New York — W. W. Mills, comr. Plants & Structures, Municipal Bldg., May 15, waste disposal plant, at Tompkins, Rivington and Stanton Sts., from Niewenhous Co., Inc., 316 East 161st St., $554,000; furnace flues, etc., from Hiler Eng. & Constr. Co., 122 Livingston St., Brooklyn, $173,000; 4 auto truck elevators from Otis Elevator Co., 11th Ave. and 26th St., $117,440; 2 radial brick chimneys from Alfonso Custodis Chimney Constr. Co., 95 Nassau St., $31,000.

Bridges

PROPOSED WORK

Pa., Harrisburg—Harrisburg Bridge Co., made plans and soon takes bids sixteen 88½ ft. concrete arch spans rockfaced piers and abutments for sixteen 90 ft. steel deck spans, also moving the 16 steel spans to new location over Susquehanna River, on Market St. Modjeska, 121 East 38th St., New York City, and F. Masters, Calder Bldg., engrs. P. P. Cret, University of Pennsylvania, Phila., archt. Noted Dec. 18.

W. Va., Huntington — Election May 25, $309,000 bonds for bridges. A. B. Maupin, city engr.

Tenn., Greenville—Green Co. appropriated $35,000 bonds, bridge across Nolichucky River, near here.

O., Cleveland — Cuyahoga Co., Court House, making plans two 20 ft. rein.-con. span additions to bridge on Lake Shore Blvd. $25,000. F. Lander, Court House, engr.

Nebraska—See "Streets and Roads."

Tex., Conroe—See "Streets and Roads."

Tex., Conroe—Montgomery Co. plans 10 span 266.5 ft. steel and timber bridge across Spring Creek, State Highway 19. $30,500. R. H. Spiller, Conroe, engr.

Tex., Gonzales—See "Streets and Roads."

Tex., Madisonville — See "Streets and Roads."

Tex., Palestine — Anderson Co. plans 2 span 120 ft. rein.-con. and steel bridge across Neches River, between Anderson and Cherokee Counties. $48,000. E. W. Davis, Palestine, engr.

Tex., Van Horn — See "Streets and Roads."

Tex., Waco—McLennan Co. having revised plans prepared and soon takes bids 150 ft. steel span, riveted pratt truss bridge, two 60 ft. steel truss and 270 ft. timber approaches across Bosque River at Eichelbergers crossing. Former bids rejected. $70,000. Noted Apr. 9.

BIDS DESIRED

N. Y., Hastings—June 1, at office F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, White Plains, repairing Warburton Ave. Bridge, here; adv. E. N.-R. May 21.

New Jersey—June 1, by State Hy. Comn., Trenton, 3 rein.-con. slab bridges, one over Waretown Creek, one over Oyster Creek, and one over South Branch Forked River, all Route 4, Sect. 28A, Ocean Co. A. L. Grover, secy.; adv. E. N.-R. May 21.

Pa., Chester — June 9, at office G. T. Wadas, controller Delaware Co., Media, Bridge 185, known as West 9th St. Bridge, 160 ft. rein.-con., arch span, over Chester River, here; adv. E. N.-R. May 21.

Maryland — May 26, by State Roads Comn., Baltimore, 55 ft. span rein.-con. arch bridge over Great Tonoloway Creek, on Natl. Pike, 2 mi. east of Hancock, Contr. W-38, also 43 ft. 3 in. span rein.-con. arch bridge over Tonoloway Creek, on Natl. Pike, at west limits of Hancock, Contr. W-39, both Washington Co. J. N. Mackall, chn.; adv. E. N.-R. May 21.

S. C., Chester — May 23, at office Bd. Directors Chester Co., thirteen 14 ft. span creosoted timber bridge across Tinker Creek, 1,305 ft. treated piling, 19,859 ft. treated lumber and 1,656 lb. hardware, etc. W. H. Harden, chn.

Georgia — May 29, by State Hy. Dept., East Point, relief bridge over Ocenee River, incl. 74,806 ft. 8- to 16-in. treated timber, etc. and Bridge over Fishing Creek, incl. 37,997 ft. 8- to 16-in. treated timber, etc., both on State Aid Project G-4-28 and G-4-39, Baldwin Co.; 2 bridges on Federal Aid Project 392-B, Gilmer Co., Bridge 1, incl. 11,608 lb. reinforcing, etc., Bridge 2, incl. 31,200 lb. reinforcing, 14,993 ft. treated timber, etc. W. R. Neel, highway engr.

Alabama—June 17, by State Hy. Dept., Montgomery, 6 span, ¼ mi. steel or concrete bridge across Tennessee River, at Decatur, in Morgan and Limestone Counties. $500,000. W. S. Keller, highway comr. Noted Apr. 30.

Miss., Gulfport—June 2, by Bd. Supervs. Harrison Co., 3,800 ft. concrete bridge with 25 ft. roadway, 5 ft. walk and 78 ft. bascule draw span. $300,000. Hendrick, Smith & Frost, Portland, Ore., and Pass Christian, Miss., engrs.

O., Columbus—June 10, by Comrs. Franklin Co., constructing 7 bridges and culverts on Cherry Bottom Rd., Mifflin Twp. and 6 in. Blendon Twp. $8,706; 8 culverts on Norton 3 Rd., Pleasant Twp., and 8 in. Prairie Twp. $2,963; 9 culverts on Roberts Rd., Jefferson Twp., $30,038. C. C. Lattimer, Court House, co. serv.

Indiana—May 26, by J. D. Williams, dir. State Hy. Comn., Indianapolis, **(r.c.a. means rein.-con. arch, r.c.g. rein.-con. girder, s.t. steel truss, and S. R. State Road)**, one 80 ft., r.c.a. on S. R. 37B, and three 45 ft. r.c.a. on S. R. 37C, Madison Co.; three 45 ft. r.c.a. on S. R. 37D, Delaware Co.; three 45 ft. r.c.a. on S. R. 11C, Madison Co.; one 28 ft. r.c.g. on S. R. 11E, Grant Co.; two 28 ft. r.c.g. and two 55 ft. s.t. on S. R. 34D, Wayne Co.; one 72 ft. s.t. on S. R. 10S, Benton Co., and one 65 ft. r.c.a. on S. R. 33D, Montgomery Co. W. J. Titus, Indianapolis, engr.

Ill., Peoria—See "Streets and Roads."

Wisconsin—See "Streets and Roads."

Wis., Milwaukee — See "Streets and Roads."

South Dakota—See "Streets and Roads."

Texas—May 30, by G. W. Courter, engr., Palo Pinto, repairing Dark Valley Bridge over Brazos River, 7 mi. North of Palo Pinto, and rein.-con., steel and timber bridge over Brazos River at Brazos, for Palo Pinto Co. (Palo Pinto). $28,000.

Tex., Anderson—See "Street sand Roads."

Tex., Anson—See "Streets and Roads."

Tex., Cameron—See "Streets and Roads."

Tex., Linden—See "Streets and Roads."

Tex., San Antonio—Taking bids 1 or 2 span 90 ft. rein.-con. and steel bridge over St. Marys and Crockett Sts. $33,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., engrs. Noted Mar. 26.

Ontario—See "Streets and Roads."

BIDS RECEIVED

New Hampshire — See "Streets and Roads."

Massachusetts—See "Streets and Roads."

Md., Westminster—State Roads Comn., Baltimore, two 50 ft. and one 56 ft. span rein.-con. arch bridge over Monocacy River, Contr. F-66, Frederick Co., from Poffenberger & Mause, Meyersville, $30,998 (not incl. removal of old bridge); from Concrete Steel Bridge Co., Clarksburg, W. Va., $31,346 (incl. removal of old bridge). Noted May 7.

North Carolina—State Hy. Comn., Raleigh, rein.-con. bridges and culverts on Project 105E, Beaufort Co., from Roanoke Iron & Bridge Wks., Roanoke, $32,413; on Project 235, Johnston Co., from J. L. Brinkley, Thomasville, $38,617; on Project 105C, from F. J. McGuire, Bankers Trust Bldg., Norfolk, Va., $28,621; on Project 283, Wayne Co., from Bowers & Bennett, Whiteville, $45,039. Noted Apr. 30.

Wis., Milwaukee — F. Schumaker, secy. Park Bd., City Hall, May 11, superstructure of bridge and runways at Mason St., from H. Danischefsky, 1484 Humboldt Ave., rein.-con. design $307,725 and structural steel design $350,718. Noted Nov. 27.

CONTRACTS AWARDED

O., Dayton—G. F. Baker, dir. Pub. Serv., two 83 ft. and two 89 ft. open spandrel rein.-con. arches, etc., over Mad River, on Findlay St., to Miller-Taylor Co., Waterloo, Ia., $146,000. Engrs. est. $196,000. Noted Apr. 23.

Ia., Rockwell—Calhoun Co., 2 I-beam, 1 slab, and 3 pony truss bridges, to Lundgren-Reis Co., 65 College St., Des Moines, $25,000.

Missouri—State Hy. Dept., Jefferson City, to A. A. Davis & E. S. Wells, Grain Exch. Bldg., Oklahoma City, Okla., 45 ft. and 40 ft. rein.-con. deck girder span, etc., over stream, $6,879 and $11,711 respectively, 90 ft. steel truss span over Little Sniber Creek $19,695, all in Lafayette Co.; to M. E. Gilliloz, Monett, two 20 ft. rein.-con. slab spans, over Tewas Branch $4,281, two 20 ft. rein.-con. slab spans over Coatney Branch $2,278, five 40 ft. rein.-con. deck girder spans, etc., over Little Niangua River $16,440, all in Dallas Co., three 24 ft. rein.-con. slab spans, etc., over Missouri & North Arkansas R.R. tracks, Barry Co., $7,411; to Independence Constr. Co., Pittsburg, Kan., three 20 and two 18 ft. rein.-con. slab spans, etc., over stream, Jasper Co., $8,947; to Stonner & Deering, Chamois, three 30 ft. rein.-con. deck girder spans, etc., over Schulte Creek, Gasconade Co. $6,257, one 30 ft. and one 25 ft. rein.-con. deck girder spans, etc., over Mississippi River and Bonne Terre R.R. tracks, Jefferson Co. $4,038, one 24 ft. and two 20 ft. rein.-con. slab spans, etc., on Sta. 834 plus 17, Jefferson City-St. Louis Rd., St. Francois Co. $4,221, four 40 ft. rein.-con. deck girder spans over Second Creek, Gasconade Co., $10,038; to Public Wks. Constr. Co., Century Bldg., St. Louis, 140 ft., 60 ft. and 50 ft. steel truss spans, etc., over Saline Creek $32,841, and one 130 ft. and two 60 ft. steel truss spans, etc., over Auxvasse Creek, $29,595, both in St. Genevieve Co.; to Summerfield Jones, Billings, two 70 ft. steel truss spans, etc., over Whitestone Branch, Wright Co., $15,697; to Richmond Constr. Co., Advance, 30 ft. rein.-con. deck girder span, etc., over Kochs Creek, Perry Co., $5,534; to Kelly & Underwood, Granby, 200 ft. steel truss spans over Spring River, Jasper Co., $37,881; to Pittsburg-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., 130 ft. steel truss span, etc., over Big Blue River, Jackson Co., $19,243; to A. G. Sherwood, Independence, Kan., 80 ft. steel truss span, etc., over White Oak Creek, Jasper Co. $14,388. Grand total $225,974. Noted Mar. 19.

Mo., St. Joseph—Bd. Pub. Wks., structure for 6th St. bridge, 1,566 yd. wood block paving, 1,382 yd. concrete, 45 tons reinforcing bars, 90,000 ft. creosoted sub-planking, 280 tons new structural steel, etc., to Kelly-Atkinson Constr. Co., Chicago, Ill., $63,000; approaches for same, to Land Constr. Co., Ballinger Bldg.; structural steel and reinforcing, St. Joseph Structural Steel Co., 9th and Atchison Sts. Engrs. est. $135,000.

Arkansas—State Hy. Dept., Little Rock, steel and concrete bridges on Arkansas-Missouri Highway, Pulaski Co., to Pioneer Constr. Co., New York Life Bldg., Kansas City, Mo., $27,406. Noted Mar. 19.

Tex., Jacksboro — See "Streets and Roads."

Tex., Karnes City — See "Streets and Roads.

Tex., Palestine—See "Streets and Roads."

Tex., Sinton—See "Streets and Roads."

Oklahoma—State Hy. Dept., Oklahoma City, 2 span 90 ft. steel truss bridge at Reeding, Kingfisher Co., to Gaines, Yokum & Machey, 519½ West Main St., Oklahoma City, $20,067, engrs. est. $25,000; 1 span 96 ft. steel truss bridge at Weleetka, Okfuskee Co., to Wilson & Bush, Weleetka, $22,816, engrs. est. $25,000; 2 span 185 ft. concrete bridge at Adair, Mayes Co., to Green-Beekman Co., 519 West Main St., $43,231, engrs. est. $45,000. Grand total $86,134. Noted Apr. 30.

Nev., Verdi—Directors Dept. Highways, Carson City, two concrete arch and one plate girder bridges on Federal Aid Project 73-B, Washoe Co., near here, to McClintic-Marshall Co., 426 South Spring St., Los Angeles, Calif., $52,571. Noted Apr. 16.

Wash., Lilliwaup — J. W. Hoover, state highway engr., Olympia, one 40 ft. and two 34 ft. span rein.-con. bridge on State Rd. 9, Olympic Highway, Mason Co., near here, to L. A. Farmer, Anacortes, $29,701.

Wash., Seattle—See "Streets and Roads."

Ore., Thurston—State Hy. Comn., Salem, concrete and steel bridge over McKenzie

Bridges (Continued)

River, Lane Co., here, to Union Bridge Co., Porter Bldg., Portland, $56,440.

Calif., Lompoc—Supervs. Santa Barbara Co. (Santa Barbara), bridge over Santa Ynez River, here, to Proctor & Cleghorn, Rosenburg Bldg., Santa Rosa, $90,424. Noted Apr. 30 under "Santa Barbara."

Calif., San Juan Capistrano—Orange Co. (Santa Ana), three 46 ft. and two 21 ft. rein.-con. span bridge on concrete piers and pile bents across San Juan Creek, near here, to Stevens Bros. & Haas, Lomita, $25,577. Engrs. est. $33,583.

Calif., San Onofre — State Hy. Comn., Sacramento, six 50 ft. span rein.-con. girder bridge, 30 ft., on concrete piers across San Onofre Creek, near here, to Fluor Constr. Co., 210 West 7th St., Los Angeles, $160,987.

Dams

PROPOSED WORK

Wis., Baraboo—G. McArthur & Son plan rein.-con. dam, new concrete flume and waterwheel. $25,000. Engineer not selected.

Wis., Burkhardt—Willow River Power Co., A. R. Schultz, Hudson, pres., plans rein.-con. dam and hydro-electric power plant, on Willow River. $50,000. Engineer not selected.

Tex., Mathis—See "Waterworks."

CONTRACTS AWARDED

Wis., Park Falls—Chippewa & Flambeau River Impvt. Co., E. P. Sherry, pres., 461 Jefferson St., Milwaukee, rein.-con. section and earth fill, rock excav., sluice gates, etc., for storage reservoir, to L. E. Myers Co., 53 West Jackson Blvd., Chicago, Ill. Engrs. est. $200,000. Noted Nov. 20.

Railways

PROPOSED WORK

Alabama—Southern R.R. Co., 1300 Pennsylvania Ave., Wash., D. C., plans about 7 mi. branch line to new asphalt plant, near Sheffield, here. B. Herman, ch. engr.

Ohio — F. B. Stein, 390 Babbitt Rd., Euclid, plans railroad siding, steel rails, wood ties and stone ballast, etc., in Euclid.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Tex., Brownsville — Cameron Co. plans election in July $1,400,000 bonds for flood control, incl. dams, levees, etc. O. C. Dancy, Brownsville, co. judge.

Tex., Cotulla—Cotulla Irrigation Project, W. A. Kerr, secy., election soon $5,000,000 bonds, rein.-con. earth and stone dam across Nueces River, canals, ditches, head gates, flood control and highway reconstruction. Nagle, Witt & Rollins, Court House, Dallas, engrs. Noted Jan. 1.

Tex., Mathis—See "Waterworks."

Tex., Sierra Blanca—Hudspeth Co. plans election $700,000 bonds for improvements and extensions Water Dist. 1. Engineer not selected.

Calif., Fallbrook — Fallbrook Irrigation Dist. plans election $125,000 bonds, irrigating 10,000 acres.

Calif., Santa Ana—Orange Co. plans election $1,250,000 bonds to develop harbor, constructing jetties, dredging, etc.

Calif., Whittier — California Domestic Water Co., 133 South Greenleaf Ave., made plans 3 mi. 6 x 6 ft. ditching for waterworks system. O. T. Sutton, supt.

Ont., Brampton—Plans overflow outlet for Etobicoke Creek. $253,000. W. H. Riehl, Town Hall, engr.

BIDS DESIRED

Mich., Saulte Ste. Marie—June 5, at office Edison Saulte Electric Co., 115 Ashmun St., deepening headrace of government power plant. T. Chandler, pres.; adv. E. N.-R. May 21.

Ontario — May 22, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, dredging at Owen Sound and Kincardine. $40,000.

CONTRACTS AWARDED

Conn., Hartford—City, 8 ft. rein.-con. conduit, excavating and grading for confined channel for Gully Brook, to T. L. Byrne, 86 Rogers St., $32,324; also 2nd section 150 ft. of 6 ft. and 700 ft. of 7 ft. concrete confined channel for Gully Brook, to O'Neil Bros., Preston St., about $28,800. Noted May 21.

N. Y., Buffalo—Dept. Pub. Wks., Municipal Bldg., dredging Buffalo Inner Harbor, to Great Lakes Dredge & Dock Co., Morgan Bldg., $0.4225 per cu.yd.

Wis., Milwaukee — Dept. Pub. Wks., dredging approximately 115,000 cu.yd. various river and canal channels, to Great Lakes Dredge & Dock Co., 216 West Water St., at $0.45 per cu.yd. Noted May 7.

Minn., St. James—C. Larsen, city clk., improving outlet of St. James Lake through city, 1,642 cu.yd. open ditch excav., 6,300 ft. 12- to 42-in. drain tile, etc., to Mickerson Cement Products Co., Albert Lee, $15,919. Noted Apr. 23.

Mo., East Prairie—St. James D. D., W. W. Bledsoe, secy., 494 acres clearing, 1,200,000 cu.yd. excav., 9 new steel, 4 new wooden and relocating 7 steel bridges, 1,750 ft. 48- to 54-in. conduit, to Midland Constr. Co., Paragould, Ark., $173,359. Noted Dec. 18 under "Charleston."

Calif., Tracy—Banta-Carbona Irrigation Dist., concrete road and railroad crossings, checks and turnouts for canal system, to H. C. Whittey, Sanger, $50,427. Noted Apr. 16.

Calif., Vista—Directors Vista Irrigation Dist., excavating and backfilling 475,000 ft. trench, to Stroud Bros. & Seabrook, Los Angeles, $91,8.6; concrete pipe for 90 mi. laterals, to Escondido Cement Products Co., Escondido, $133,722; riveted steel pipe for 90 mi. laterals to Baker Iron Wks., 912 North Bway., Los Angeles, $210,932. Noted Apr. 16.

Streets and Roads

PROPOSED WORK

New Jersey—Freeholders Hunterdon Co. (Flemington) plans cement paving 4.319 mi. road between Flemington and Ringoes. G. Davis, Whitehouse Sta., engr.

N. J., Gloucester—City Council plans asphalt resurfacing various streets. $686,000. J. C. Remington, 6th and Market Sts., Camden, engr.

N. J., Linden — Freeholders Union Co. (Elizabeth), plans improving 7,400 lin.ft. Raritan Rd., here. J. L. Bauer, Elizabeth, co. engr.

W. Va., Bridgeport—Voted $52,500 bonds, surfacing 1.5 mi. 3rd., Grant, Orchard and James Sts. N. D. Sutton, recdr. Noted Apr. 16.

W. Va., Huntington—Cabell Co. election soon $275,000 bonds, improving roads in Barboursville Dist. J. M. Oliver, Huntington, co. engr.

W. Va., Logan—Logan Co. voted $100,000 bonds, roads in Triandelphia Dist. J. N. Smith, Logan, engr.

W. Va., Morgantown — Monongalia Co. plans election $360,000 bonds, improving roads in Battelle Dist. A. J. Baritell, Morgantown, engr.

W. Va., Moundsville—L. L. Stidger, city clk., soon takes bids vitr. brick surfacing 8th and other streets. $40,000. J. J. Simmons, Moundsville, engr. Noted Apr. 9.

W. Va., Pt. Pleasant — Mason Co. voted $70,000 bonds, improving roads in Robinson Dist. D. B. Buxton, co. clk.

North Carolina—State Hy. Comn., Raleigh, plans grading and concrete or asphaltic paving, etc. 12 mi. Project 127, Edgecombe Co. $360,000, 7.6 mi. Project 246, Jones Co. $114,000, 7 mi. Project 475, Vance Co. $210,000, 2.9 mi. Project 786, Wilkes Co. $90,000, 5 mi. Project 831, Henderson Co. $150,000, 2.9 mi. Project 906C, Buncombe Co. $120,000, 11.8 mi. Project 817, Burke Co. $354,000; grading and sand asphalt paving, etc. 5 mi. Project 376, Pender Co. $106,000, Project 310, Brunswick Co. $100,000, 9.8 mi. Project 548, Hoke Co. $196,000; clearing, grubbing, grading and small rein.-con. structures, etc. on 12 mi. Project 241, Johnston Co. $84,000, 14.4 mi. Project 349, Cumberland Co. $100,000, 10 mi. Project 564, Moore Co. $70,000, 4 mi. Project 618, Catarrus Co. $28,000, 5 mi. Project 558, Montgomery Co. $33,000, 5 mi. Project 565, Moore Co. $45,000, 16 mi. Project 240, Johnston Co. $112,000, 6 mi. Project 574, Moore Co. $40,000; clearing, grubbing, grading, etc. 5.2 mi. Project 818, Burke Co., $35,000; clearing, grubbing, grading and top soiling 18.2 mi. Project 405, Chatham Co. $125,000, 9 mi. Project 755, Stokes Co. $65,000, and 4.2 mi. Project 805, Avery Co. $30,000. C. M. Upham, ch. engr.

N. C., Halifax—Bd. Comrs. Halifax Co. voted $1,500,000 bonds, hardsurfacing various roads. G. L. Hayes, Rosemary, chn.

Fla., Ft. Lauderdale—Browan Co., election May 19, $1,500,000 bonds constructing various roads. J. F. Carlton, Ft. Lauderdale, engr.

Fla., Haines City—Election June 5, $50,000 bonds improving various streets. E. C. Bryan, mayor.

Fla., Tampa—Plans 2½ in. asphalt block paving and granite curbing South Albany St. and portions of Palm and Manie Sts., from Plymouth to Buffalo Sts., $39,428, and Manie St. from Palm to Park Sts., and Jackson St. from Water to Jefferson Sts., $29,805; regrading and paving 7th Ave., $40,003. R. D. Martin, City Hall, engr.

Miss., Ackerman — Choctaw Co. making preliminary plans grading, bridging and gravel surfacing 4 roads. $371,000 bonds voted.

Miss., Corinth—Alcorn Co. voted $150,000 bonds, improving various roads.

Miss., Hattiesburg — Forest Co. voted $150,000 bonds for improving roads in Dist. 1.

Miss., Waynesboro — Wayne Co. voted $100,000 bonds, improving Waynesboro-Laurel Rd. in Woodward-Mount Pleasant Dist.

La., Plaquemine—Iberville Co. voted $25,000 bonds, gravel surfacing Rd. Dist. 2, between here and Burtville.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, soon takes bids gravel surfacing 4.5 mi. Hornbeak-Lake Co. line Rd., 16 ft., Obion Co. J. G. Creveling, highway comr.

Tenn., Brownsville—Plans election $85,000 bonds, paving various streets.

Tenn., Chattanooga — Hamlin Co. and State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 1.5 mi. highway from Market St. to tunnel J. G. Creveling, highway comr.

Tenn., Union City — Obion Co. defeated $1,000,000 bonds, hardsurfacing various roads. Noted Mar. 16.

Ky., Falmouth—Pendleton Co. plans improving various roads. $150,000 bonds sold.

O., Akron—W. F. Peters, dir. Pub. Serv., soon takes bids grading, curbing, sidewalks and vitr. brick paving 6,000 sq.yd. Dayton St., $41,500. E. A. Kemmler, Delaware Bldg., engr.

O., Canton—Bd. Control plans improving Gertrude Pl. $25,000. G. F. Turner, Youngstown, engr.

O., Cincinnati—Hamilton Co. plans 10 in. tar bound macadam, resurfacing, etc. 31,200 sq.yd. Given Rd. $57,787, 14,200 sq.yd. Enyart Rd. $26,723, and 16,500 sq.yd. Brower Rd. $30,468; rein.-con. paving, etc. 18,320 sq.yd. Camargo Rd. $122,098, and 46,250 sq.yd. Dugan Gap and Brower Rds. $219,904. E. A. Gast, Court House, engr.

O., Cleveland—City Allotment Co., M. A. Elconin, mgr., Swetland Bldg., making plans allotment improvements, incl. sidewalks, sewer and watermains; grading, etc. Sthroman & Kidder, The Arcade. Total est. $70,000. C. W. Courtney, 1770 East 11th St., engr.

O., Cleveland—H. A. Kangesser Co., 2920 Prospect Ave., takes bids in summer allotment improvements, incl. grading, laying sidewalks, sewer connections, watermains and paving. $150,000. C. W. Root, Society for Savings Bldg., engr.

O., Cleveland—Knickerbocker Land Co., W. R. Parmele, pres., Bulkley Bldg., making surveys allotment improvements, incl. grading, laying sidewalks, sewer connections and watermains. $100,000. M. T. Jones Eng. Co., Hanna Bldg., engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections and paving 657 ft. alley West of Summit St., 15 ft., brick $4,221, concrete 3,752; 7,730 ft. Wagner St., Westmoor, Noonday, Townsend, New, Roys and Oakland Aves., 24 ft., asphalt $132,984, brick $150,148; 1,019 ft. McAllister and alley north Wilber Aves., 20 ft., asphalt $4,803, brick $8,879, and concrete $7,858; 881 ft. alley North Patterson Ave., 16 ft., brick $6,208, concrete $5,521; 492 ft. alley West Ebner St., 17.5 ft., brick $3,061, concrete $2,709. R. H. Simpson, city engr.

O., Columbus — Making plans grading, laying necessary water mains and sewer connections and paving with (a) asphalt (b) brick and (c) concrete; 1,388 ft., Ludlow St. 33 ft. (b) $23,750; 2,085 ft. Front St. 52.5 ft. (a) $43,154; 508.5 ft. alley west Hawkes Ave., 16 ft. (b) $3,528 (c) $3,138; 279 ft. Souder Ave., 26 ft., (a) $3,771 (b) $4,926; 2,188 ft. Briarwood Ave., 24 ft. (a) $28,942 (b) $37,526; 465 ft. alley north Mt. Vernon Ave., 16 ft. (b) $3,483 (c) $3,108; 938 ft. Berwyn Ave., 24 ft. (a) $14,745 (b) $17,379; 554 ft. alley north 8th Ave., 22 ft. (b) $5,576 (c) $4,956; 337.5 ft. Wall St., 20 ft. (b) $2,803 (c) $2,497; 1,485 ft. Frambes Ave., 28 ft. (a) $9,675. R. H. Simpson, city engr.

O., Dayton — Plans vitr. brick paving 1,800 ft. 1st Ave., $72,313; brick or granite durax block repaving, etc., 5th St., $51,688. J. H. Hale, city engr.

O., Garfield Heights (Cleveland P. O.)—Village and Cuyahoga Co. (Cleveland) making preliminary plans widening Bway. and Winfall Rd. 24, and paving 4 mi. Turney Rd. $800,000. F. Lander, Court House, engr.

O., Mansfield—Plans improving Glessner Ave., 10,400 sq.yd. paving, 6,300 lin.ft.

Streets and Roads (Continued)

curbing and guttering, and 11,590 sq.yd. grading. H. C. Lynch, dir. Pub. Serv. Safety.

O., Massillon — City Bd. Control soon takes bids improving Cherry, Mill and Plum Sts. $35,000. C. E. Rice, city engr.

O., Steubenville—Jefferson Co. plans improving 4 mi. Steubenville-East Liverpool Rd., 16 ft., $125,000; waterbound macadam paving Steubenville-Canton Rd., $550,000; concrete or asphalt paving 1.5 mi. Stanton Park Rd., $33,000.

O., Youngstown — City plans improving and widening Watt St. from Front to Federal Sts., and Watt St. from Federal to Wood Sts. $979,730. G. F. Turner, Youngstown, engr.

O., Youngstown—Bd. Control soon takes bids brick paving Rush Rd., $35,000-$40,000; asphalt paving Schenley Ave. $40,000, and Thompson St. $35,000; improving and repairing Wilson Ave., $40,000-$50,000; improving Stratmore St. $50,000, Oakwood Ave. $35,000, Hylda St. $30,000, and Andrews Ave. $1,000,000. G. F. Turner, Youngstown, engr. Noted Dec. 11, 18th and Jan. 1.

Michigan — State Hy. Dept. at office Comrs. Ingham Co., Mason, takes bids about June 13, concrete paving 0.871 mi. Federal Aid Project 146 A.

Mich., Wyandotte—Plans concrete paving 30,000 sq.yd. 2nd St. $7,103, Vine St. $28,008, Orchard St. $7,564, Elm St. $24,748, 6th St. $14,412, 1st St. $4,983. M. L. Brown & Son, Capitol Bldg., Detroit, engrs.

Ill., Astoria—City Clerk takes bids about June 1, grading, curbing and concrete surfacing 2 mi. Bway. and Main St., 30 ft., $67,000. W. A. Fuller Co., 1917 Railway Exch. Bldg., St. Louis, Mo., engrs.

Ill., Blue Island — Making preliminary plans grading, curbing and hardsurfacing various streets. $400,000. A. L. Fox, 160 North La Salle St., Chicago, engr.

Ill., Chicago—Evanston, Wilmette, Kenilworth, Winnetka and Glencoe Twps. making plans improving Trunk Highway from Evanston to Glencoe. $250,000. C. Roberts, 105 North Clark St., Chicago, engr.

Ill., East St. Louis—Making preliminary plans grading, curbing and hardsurfacing St. Louis Ave. from 29th St. to Belt Railroad. $27,000. W. McK. Brown, City Hall, engr.

Ill., Geneva—Made plans grading, curbing and rein.-con. surfacing 2,146 sq.yd. Logan Ave. $25,000. Wells Eng. Co., Court House, engrs.

Ill., McHenry — Making plans grading, curbing and rein.-con. surfacing 6,842 sq.yd. Elm St. $35,000. Wells Eng. Co., Court House, Geneva, engrs.

Ill., Nason — Making preliminary plans grading and concrete surfacing sidewalks on various streets. $55,000.

Ia., Bedford—Making preliminary plans grading, curbing and hardsurfacing 49 blocks various streets.

Ia., Maquoketa — Making plans paving, etc., 41 blocks various streets. $125,000. J. G. Thorne, Clinton, engr.

Ia., Sioux City—Plans paving 3rd Ave., Myrtle and West 19th Sts. $26,497. L. N. Hintgen, city engr.

Ia., Stanton — Plans improving various streets, 30,000 sq.yd. paving, 19,000 lin.ft. curb and gutter, 2,500 ft. storm sewers and 10,000 lb. reinforcing. De Lay & De Voe, Creston, civil engrs.

Minn., St. Paul—G. J. Ries, aud. Ramsey Co., returned bids unopened May 4, improving 3 mi. County Project 25-52 between west end of Prescott Bridge and Trunk Highway 3, 34,907 sq.yd. one course concrete paving, 17,064 sq.yd. earth shoulders, 15,679 ft. curb, etc. $100,000. Work postponed for this year. Noted Apr. 30.

Minn., Wheaton—Plans paving approximately 18,000 sq.yd. various streets. $45,000. Siverts & Nelson, 300 Builders Exch., Minneapolis, engrs.

Kan., Garden City—Finney Co. takes bids in July grading, sand clay surfacing, etc. 48,000 cu.yd. Federal Aid Project 248-A, B and C. B. L. Allen, Court House, engr. Noted Jan. 15.

Kan., Holton—Making preliminary plans grading, curbing and concrete surfacing 8 blocks 2nd, 6th, 7th and 9th Sts.

Kan., Mayfield — Making plans various streets. $600,000. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs.

Kan., Wellington — Sumner Co. making preliminary plans grading, etc. 12.5 mi. Coal Oil Highway from Harper Co. to Chisholm Trail. J. H. Marty, Wellington, engr.

Nebraska — State Hy. Comn., Lincoln, making preliminary plans grading, bridging, etc. 14 mi. road from Ewing northwest to Page, Holt Co. R. L. Cochrane, highway engr.

Nebraska — State Hy. Comn., Lincoln, making preliminary plans grading, etc., 9 mi. road between Ainsworth and Meadville, 28 ft. R. L. Cochrane, highway engr.

Neb., Fremont — Making preliminary plans grading, curbing, hardsurfacing, etc. 11 mi. various streets. L. M. Roessler, City Hall, engr.

Neb., Papillion—Sarpy Co. plans grading and gravel surfacing main roads in Bellvue Precinct. $50,000.

Neb., Springview—Keyapaha Co. making preliminary plans grading, etc., 18 mi. earth road between Springview and Norden.

Neb., Wilber—Plans improving 25 blocks in Business Dist. and Blue Valley Dr. $90,000. Prince & Reynolds, Grain Exch. Bldg., Omaha, engrs.

Mo., Caruthersville—Making preliminary plans grading, curbing and concrete paving 24 blocks East and West 5th, Bushey, East 6th, East 12th, West 8th, West 4th and Laurent Sts.

Mo., Clayton—St. Louis Co. defeated $5,000,000 bonds hardsurfacing various roads. R. Jablonsky, Court House, engr. Noted Mar. 12.

Mo., Louisiana—Voted $16,000 bonds paving portions of Georgia St.; also made plans grading, curbing and hard-surfacing various other streets, approximately $75,000.

Mo., St. Louis — Bd. Pub. Serv. made plans grading, curbing, paving, etc., with (a) asphaltic cement (b) Willite (c) Warrenite (d) granite block (e) brick (f) asphaltic concrete (g) asphalt (h) concrete, West Pine St. (a and c) $238,800 each (b) $247,000; East Virginia St. (d) $28,230 (e) $22,790 Gustine St. (f) $20,900, (g) $21,600 (b) $22,200; North and South Utah Sts. (f) $50,700 (c) $54,000 (g) $55,200 (b) $57,800; Utah St. (f) $8,610 (b) and (g) $9,150 each (b) $9,600, Alfred St. (h) $14,800 (e) $16,800 (c) $14,000 (f) $13,600 (g) $14,200 (b) $14,600; Dale St. (h) $44,200 (g) $46,600 (c) $46,400 (b) $47,900 (f) $44,700 (e) $53,000; Humphrey St. between Grand and Gustine Sts. (g) $30,600 (c) $30,500 (f) $28,700 (b) $32,100, Humphrey St. between Gustine and Russell Sts. (f) $10,500 (c) $11,000 (b) $11,600 (g) $11,200, Humphrey St. between Russell and Oak Hill Sts. (f) $7,300 (c) $7,890 (b) $8,950 (g) $8,500; Russell Pl. (b) $41,400 (c) $39,500 (g) $39,400 (f) $36,900, Hi Pointe Pl. (g) $6,000 (b) $6,200 (h) $6,050 (f) $5,800 (c) $6,000; widening, etc. Del Mar Blvd. between Taylor St. and Kingshighway, $21,200. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Bd. Pub. Wks., (C. B. means City Block) soon takes bids concrete paving alleys in C. B. 2568, C. B. 2817, C. B. 2884, C. B. 2885, C. B. 2928, C. B. 2971, C. B. 3070, C. B., 3996, C. B. 4154, C. B. 4571, C. B. 5011, C. B. 5012, C. B. 5292, C. B. 5296, C. B. 5318, C. B. 5558, C. B. 5571, C. B. 5570 and C. B. 5640, $68,507; Willite paving 25,000 sq.yd. Magnolia St., $190,000; granite curbing and Willite paving 12,180 sq.yd. Euclid Ave., $71,000; recut granite block and torpedo gravel surfacing Easton St. between Marcus St. and Kingshighway, $1,000; concrete curbing and asphaltic concrete surfacing 3,240 sq.yd. Mississippi St., $21,000; granite curbing and brick on concrete paving 1,840 sq.yd. Lexington Ave., $13,900. W. W. Horner, 300 City Hall, engr.

Ark., Harrison — Making preliminary plans grading 7 blocks various streets, 60 ft. $45,000. Engineer not selected.

Ark., Helena — Phillips Co. having preliminary plans prepared grading, gravel surfacing, etc. 6 mi. Walnut Corner-Lee County Line Rd., 18 ft. R. C. Limerick, c/o Highway Dept., Little Rock, engr.

Tex., Anson — Jones Co. making plans grading, bridging, etc. 15.4 mi. Stamford-Shackleford-Albany Rd., Highway 18, $74,500; 11.5 mi. Stamford-Abilene Rd., $34,000; and 20 mi. Stamford-Hamlin Rd., State Highway 93, $41,050. J. W. Puckett, Stamford, engr.

Tex., Barstow — Ward Co. soon takes bids macadam and caliche surfacing 11.13 mi. State Highway 1, Federal Aid Project 391-C, 18 ft. $157,500. S. S. Posey, Pecos, engr. Noted Mar. 2.

Tex., Bellville—Austin Co. election soon $475,000 bonds for road work in Sealy Dist. C. D. Duncan, Bellville, judge. Engineer not announced.

Tex., Bellville—Austin Co. making plans grading, bridging, etc. 16.9 mi. State Highway 36, in Bellville Rd. Dist. $120,000. H. Schrocter, Bellville, engr.

Tex., Conroe — Montgomery Co. plans grading, bridging and gravel surfacing 6.5 mi. State Highway 19, 16 ft. $57,000. R. H. Spiller, Conroe, engr.

Tex., Galveston—Trinity Co. voted $1,500,000 bonds of which $439,000 for refunding bonds and $1,061,000 for hard surfacing 58 mi. various roads. J. J. Berry, Groveton, co. engr.

Tex., Gonzales — Gonzales Co. making plans grading and bridging 8.08 mi. State Highway 81, Federal Aid Project 440-D, 18 ft. $70,000. J. G. Irby, Gonzales, engr.

Tex., Madisonville—Madison Co. making plans grading, bridging, etc. 6.25 mi. State Highway 21, 26 ft. $44,500. A. McCormick, Madisonville, co. engr.

Tex., Richmond—Fort Bend Co. c/o W. I. Farlane, judge, election May 30, $225,000 bonds, road work in Rosenberg Dist.; $60,000 bonds for Tavener Dist. and $150,000 bonds for Beasley Dist. C. H. Kendall, Sugarland, engr.

Tex., Richmond—Election soon $25,000 bonds, paving 10 or 12 blocks various streets. Engineer not announced.

Tex., Tahoka — Lynn Co. election soon $500,000 bonds for roads. C. H. Cain, Tahoka co. judge. Engineer not selected.

Tex., Van Horn — Culberson Co. making plans grading, bridging and gravel surfacing 80 mi. State Highway 54, 16 ft. $100,000. A. D. Hutchinson, Van Horn, co. engr.

Oklahoma — State Hy. Dept., Oklahoma City, making surveys grading and concrete surfacing 56 mi. Postal Highway, 30 ft., Beckham Co. $600,000. J. M. Page, highway engr.

Oklahoma — State Hy. Dept., Oklahoma City, making preliminary plans amiesite resurfacing 26,300 sq.yd. Jefferson Highway, Muskogee Co., $25,000; grading and concrete surfacing 42,300 sq.yd. Postal Highway from Yukon to Lakeside Rd., Canadian Co., $115,000. J. M. Page, highway engr.

Okla., Ada — Making preliminary plans grading, curbing and concrete surfacing 10,600 sq.yd. South Bway. $35,000. Engineer not selected.

Okla., Covington—Making plans grading and concrete surfacing 14,000 sq.yd. C and 4th Sts. $45,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Cordell—Plans grading and paving 16 blocks Valentine, Mission, 2nd and 4th Sts., Dist. 3, 26 and 60 ft. $65,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Sulphur — Rejected bids Apr. 29, gravel surfacing 42,310 sq.yd. roads in Platt Natl. Park. $42,000. Noted Apr. 27.

Okla., Waurika — Jefferson Co. election soon $700,000 bonds grading and surfacing 42 mi. Meridian Highway, 30 ft. Work will be supervised by State Hy. Dept., Oklahoma City. J. M. Page, highway engr.

Wash., Longview — City Council made plans and takes bids about May 27, improving 7 mi. Highlands Addition 1, 57,157 lin. ft. curbing, 237,687 lin.ft. concrete sidewalks, 41,533 sq.yd. 5 in. and 83,328 sq.yd. 6 in. concrete paving, etc. $457,512. T. H. Davis, Longview, engr.

Wash., Tacoma—Making plans 74 ft. fill and 20 ft. pavement on Front St. from North Starr to Dock St. incl. bulkhead, riprapping on water side. $414,056. J. C. Manley engr. Noted Feb. 26.

Wash., Tacoma—City Comn. takes bids about June 27, paving McKinley Ave. et al. $38,870. W. M. Bosworth, city engr. Noted Oct. 30.

Wash., Yakima—Made plans and soon takes bids concrete paving South 14th and 15th Aves., 28 ft. $31,781. C. F. Wilson, city engr.

Calif., Arcadia—Made plans curbing and oil macadam paving 15,000 sq.ft. 4th Ave., 122,000 sq.ft. Fairview Ave., and 40,000 sq.ft. Huntington Dr. Noted July 24.

Calif., Bakersfield—City had plans made Warrenite bitulithic paving on asphalt concrete 154,948 sq.ft. Chester Lane, et al. To exceed $30,000. W. D. Clarke, city engr.

Calif., Corning—Plans improving Solano St., 164,448 sq.ft. grading, 115,947 sq.ft. 6 in. concrete paving, etc. W. F. Lunning, Courthouse, Red Bluff, engr.

Calif., El Centro—City had plans prepared paving Main, Imperial Lenrey Sts. $41,500 available. J. A. Schofield, city clk.

Calif., Glendora—Plans paving, curbing, walks, etc., in various streets. $45,000-$50,000. A. E. DeMott, city engr.

Calif., Marysville—Plans paving Brown's Grade and 12th St. to city limits. To exceed $40,000. L. B. Crook, city engr.

Calif., Mayfield — Made plans concrete curbing and concrete paving 233,000 sq.ft. Bowdoin, Columbia and Hanover Sts., etc.; 5 in. vibrolithic concrete paving, etc., approximately 63,000 sq.ft. various streets, to exceed $25,000. C. Moser, 651 Homer Ave., Palo Alto, engr.

Calif., Pomona—Plans 6 in. concrete paving, curbing, guttering 113,537 sq.ft. portion of Palomar St. F. C. Froedhe, city engr.

Calif., Redondo Beach — Plans grading 2,035 lin.ft. and roads and oil paving 96,268 sq.ft. Garnett St. V. H. Staheli, city engr.

Calif., Redwood City—Had plans prepared vibrolithic concrete paving 197,000 sq.ft. El Camino Real from Finger Ave. to City limits. C. L. Dimmitt, city engr.

Calif., San Diego—Common Council plans improving N. St., 12,570 lin.ft. cement curbing, 1,795 sq.yd. cement sidewalk, 19,235

Streets and Roads (Continued)

cu.yd. earth excav., 5,642 cu.yd. embankment. $25,000. F. A. Rhodes, city engr.

Calif., San Diego—Common Council plans improving 4th St. from A to K Sts., 207,683 sq.ft. 2 in. sheet asphalt and 1 in. binder course, 1,596 sq.ft. concrete sidewalk, etc. F. A. Rhodes, city engr.

Calif., San Francisco — City and San Francisco Co., made plans improving Pulgas road near Redwood City, San Mateo Co., for Tuberculosis Preventorium. $76,000. M. M. O'Shaughnessy, engr.

Calif., San Leandro — Plans repairing Washington Ave. and widening and paving East 14th St. $175,000. F. Nikirk, city engr.

Ont., Arthur—Council, R. H. Irvine, chn. com., plans concrete paving George and Smith Sts. $38,000.

Ont., Chatham—Council Kent Co. takes bids end of May 4 mi. concrete highway, 2¾ mi. north of Charing Cross, and 1½ mi. in Camden Twp. $200,000. A. Colby, County Bldgs., engr.

Ont., Fergus—Plans cement paving St. Andrew, St. David and Tower Sts. $45,000. G. G. Reid, town engr.

Ont., Harriston — Plans cement paving Main St. $35,000. Prices wanted on materials. F. B. James, Walkerton, engr.

Ont., Ridgetown—Takes bids about June 15 cement paving Main St. $40,000. E. D. Colby, Harrison Hall, Chatham, engr.

Ont., Windsor — Plans cement paving Wellington St., incl. moving street railway tracks from side to center of street. $40,000. A. Brian, city engr.

BIDS DESIRED

New York—June 1, at office F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, White Plains, rein.-con. paving 1.66 mi. Lexington Ave. and Main St. cut off in Mt. Kiscoe, County Rds. 22 and 23; 2.69 mi. Knollwood Rd., in Greenburgh, Co. Rd. 28; 0.37 mi. Virginia Rd. in Mt. Pleasant and Greenburgh, Co. Rd. 35; adv. E. N.-R May 21

N. Y., Catskill—May 25, by E. C. Sandt, pres. Bd. Village Trustees, improving 0.208 mi. Division St.; adv. E. N.-R. May 21.

N. Y., Long Island City—May 25, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, sidewalks, etc., on Bway., Pulaski, Speer, Beach 90th and Beach 91st Sts., 44th Ave. (Alexis St.); grading, curbing, sidewalks and sheet asphalt paving Delta Pl., Folsom Ave., Speer and Pulaski Sts.

N. Y., New York—May 27, by J. Miller, pres. Manhattan Boro, Municipal Bldg., widening and sheet asphalt repaving 32nd St.; sheet asphalt repaving 135th St.; and granite block repaving Canal St.

N. Y., Poughkeepsie—May 28, by Bd. Pub. Wks., Eastman Park Mansion, paving 6 streets and avenues, also storm sewer in Dutchess Ave. T. E. Lawlor, supt.; adv. E. N.-R. May 21.

N. Y., St. George — May 26, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Richmond Rd.

New Jersey — May 28, by Freeholders Middlesex Co., (New Brunswick), asphalt paving 7,100 sq.yd. Woodbridge-Iselin-Oak Tree Rd. between Woodbridge and Iselin. W. F. Buchanan, New Brunswick, acting engr.

New Jersey—June 1, by State Hy. Dept., Trenton, rein.-con. paving Route 5, Sects. 11 and 8A, Warren Co., and Route 20, Sect. 3, Gloucester Co. A. L. Grover, secy.; adv. E. N.-R. May 21.

N. J., Ocean Grove—June 3, by Bd. Freeholders Monmouth Co., (Freehold), rein.-con. or sheet asphalt paving Bond St. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. May 21.

Pa., Juniata—June 5, by Boro Council, W. H. Baird, secy., rein.-con. paving 2,000 sq.yd. 7th St., and 1,300 sq.yd. 13th Ave.; vitr. brick paving 2,000 sq.yd. 14th Ave. D. W. Dillman, 91 Altoona Trust Bldg., Altoona, engr. Noted Sept. 11.

Pa., Phila.—June 17, by Delaware River Bridge Joint Comn., Widener Bldg., Phila., concrete slabs and paving for roadway and footwalks of bridge over Delaware River connecting Phila. and Camden, Contr. 21 B; also for Phila. approach between 5th and 6th Sts., etc. G. Pinchot, chn.; adv. E. N.-R. May 21.

Pa., Rankin—May 25, by Boro Secretary, Municipal Bldg., brick paving about 10,900 sq.yd. Harriet and Hawkins Sts., 2nd, 5th and Miller Aves. U. G. Duvall, Municipal Bldg., boro engr.

Virginia — June 4, at office State Hy. Dept., Richmond, improving roads in Route 23, Project F-355-A, Giles Co.; Route 12, Project F-397, and Route 31, Project F-398, both Mecklenburg Co., Route 12, Project F-401, Southampton Co.; Route 37, Project F-402, Lancaster Co. C. S. Mullen, ch. engr.; adv. E. N.-R. May 21.

Georgia — May 29, by State Hy. Dept., East Point, **(F. A. P. means Federal Aid Project)**, surface treating, etc., 65,150 sq.yd. Cleveland-Murphy Rd., F. A. P. 111-B and 290, Union Co., 93,870 sq.yd. Waycross-Jacksonville Rd., F. A. P. 77, Charlton Co.; 102,096 gal. asphalt binder on 4.532 mi. Athens-Bothart Rd., F. A. P. 400, Clarke Co.; gravel surfacing 27,771 cu.yd. Valdosta-Quitman Rd., F. A. P. 397, Lowndes Co.; top soil surfacing, clearing, grubbing, etc., 9.035 mi. Atlanta-Conyers-Covington Rd., F. A. P. 407-A, Rockdale Co.; and clearing, grubbing, macadam surfacing, etc., 3.77 mi. Ellijar-Jasper Rd., F. A. P. 392-H, Gilmer Co. W. R. Neel, highway engr.

Fla., Murry Hill—May 29, by Town Council, H. R. Capps, pres., grading and paving 4 mi. various streets. G. B. Hill, Barnett Bldg., Jacksonville, engr.

Fla., Tampa—May 29, by W. A. Dickenson, clk. Hillsborough Co., 2 in. Filbertine paving portion Manhattan Ave., and 2½ in. asphalt block paving portion 2nd Ave., $30,000; paving 11,000 sq.yd. Streets 1 to 5 (inclusive) $30,000, 11,000 sq.yd. Streets 6 to 11 (inclusive) $30,000, and 36,000 yd. Street 12 $100,000.

Alabama—June 3, by State Hy. Comn., Montgomery, grading, clearing, grubbing, etc., 10 mi. Carrollton-Aliceville Rd., State Project 70, Pickens Co.; 20.74 mi. Dothan-Hartford Rd., State Project 10, Houston and Geneva Counties; 13.88 mi. Sulligent-Guin Rd., State Project 20, Lamar Co.; 6.5 mi. Union Spring-Ft. Davis Rd., State Project 67, Bullock Co. W. S. Keller, highway engr.

Kentucky—June 8, by State Hy. Dept., Frankfort, grading, etc. 6.997 mi. Bardwell-Hickman Rd., Federal Aid Project 131-B, and 4.82 mi. Bardwell-Ballard Co. line Rd., Federal Aid Project 131-C, both Carlisle Co., also 5.747 mi. Fulton-Hickman Rd., Federal Aid Project 130-B, Fulton Co., all 26 and 30 ft. E. N. Todd, highway engr.

O., Bexley (Columbus P. O.) — May 22, by S. W. Roderick, village clk., grading, brick, asphalt or concrete paving 12,960 ft. Brentwood, Cassingham and Remington Rds., Meadow Park, Montrose, Roche, and Vernon Aves., 24 ft. $210,900.

O., Cleveland—May 27, by City, paving Bucyrus Ave. S. W., Chatfield Ave. S. W., Coath Ave. S. E., Seymour Ave. S. W., Gay Ave. S. E., Woburn Ave S. W., Waldo Rd. N. E., Woburn Ave. S. W., Oxford Ave. N. W., Brooklyn; Dell and Darthmouth Aves., Melbourn, West 159th, East 30th, 40th, 59th and 138th Sts. To exceed $250,000. R. Hoffman, City Hall, engr.

O., New Philadelphia—May 24, by Comrs. Tuscarawas Co., asphalt on concrete paving North Bway. $30,000. E. Stingel, New Philadelphia, engr.

Wisconsin—May 28, by C. R. Weymouth, div. engr. at Office 444 Milwaukee St., Milwaukee, concrete surfacing, etc., 58,718 sq. yd. Richfield-Ackerville Rd., Washington Co. J. T. Donaghey, Madison, highway engr.

Wisconsin—May 29, by State Hy. Comn., at Div. Office 9, Teller Bldg., Lancaster, grading, guttering and crushed gravel surfacing, etc., 7,235 cu.yd. Spring Green-Wauzeka-Prairie du Chien Rd., Federal Aid Project 416-A, Crawford Co., incl. Peck St. Bridge on Sta. 195 plus 18.5, 67,000 lbs. structural steel, 23,000 lbs. cast steel, etc.; also several bridges over 6 ft. to 20 ft. span, on Middleton-Mazomanie-Spring Green Rd., Federal Aid Project 410-A, Iowa Co., 79,000 lbs. structural steel, etc. J. T. Donaghey, Madison, highway engr.

Wis., Fond du Lac—May 27, by G. Trelevan, comr. Fond du Lac Co., grading, etc., 46,100 cu.yd. New Cassell-Dundee Rd.; grading and concrete surfacing, etc., 7,950 sq.yd. Marytown-St. Cloud Rd. in St. Cloud Village; and 32,900 sq.yd. New Cassell-Campbellsport Rd. in Campbellsport. J. T. Donaghey, Madison, state highway engr.

Wis., Milwaukee — May 25, by W. J. Cary, clk. Milwaukee Co., grading, concrete paving, etc., 20,300 sq.yd. 8th Ave. No. 4, and 21,300 sq.yd. Wauwatosa Ave. No. 4; grading, bridging and concrete paving, etc., 10,300 sq.yd. Lovers Lane Rd., 8,200 sq.yd. 77th Ave. No. 3 and 26,500 sq.yd. Wauwatosa Ave. No. 2.

Wis., Milwaukee—May 26, by Dept. Pub. Wks., grading, etc., grounds at Riverside pumping station. $60,000. J. Schwada, city engr.

Wis., Milwaukee—May 27, by Dept. Pub. Wks., asphalt and concrete paving 7 blocks and 8 alleys. J. Schwada, city engr.

Ia., Cedar Rapids — May 25, by L. J. Storey, city clk., concrete surfacing 4,688 sq.yd. 11th St. W. and Hinkey Ave.; brick block surfacing 2,410 sq.yd. 2nd St. W. and 7th Ave., and 2,730 sq.yd. 1st St. W. $30,000. T. F. McCauley, city engr. Noted May 7.

Ia., Council Bluffs—May 29, by W. A. Groneweg, city clk., grading, curbing, brick, rein.-con., concrete or asphalt, surfacing, etc. 24,000 sq.yd. 5th 8th, Helen, Jim, Washington, South 11th, South 10th, 21st, 16th, South 7th, 26th, North 10th, 27th, Oak Sts., etc., Avenue 1 and Avenue C. $150,000. J. H. Wayne, city engr. Noted Apr. 9.

Ia., Davenport—May 28, by F. A. Haass, city clk., improving various streets, 26,833 sq.yd. bitulithic paving, 18,181 ft. curb and gutter, 5,138 sq.yd. rein.-con., 2½ in. or 3 in. brick, and 3,432 ft. curb and gutter, etc. Noted Apr. 9.

Ia., Remsen—May 26, by A. Paschke, city clk., grading, curbing, guttering and concrete, brick, vibrolithic or bitulithic surfacing 38,000 sq.yd. various streets. Henningson Eng. Co., Natl. Bldg., Omaha, Neb., engrs. Noted Nov. 6.

Nebraska — May 28, by R. L. Cochran, state highway engr., Lincoln, grading 4.06 mi. Lodgepole-Potter Project 149-B, Cheyenne Co. $35,000 and 5.213 mi. Meadow-Grove-Tilden Project 139-I, Madison Co., $30,000; gravel surfacing 107,700 sq.yd. Alliance-Hemmingford Project 198-A, Box Butte Co. $25,000, 7.82 mi. Kearny-Pleasanton Project 73-B, Buffalo Co. $29,000, 8.61 mi. Broadwater-Oshkosh Project 82-A, Garden Co. $30,000, 9.44 mi. Battle Creek-Meadow-Grove Project 139-H, Madison Co. $35,000, 8.631 mi. Norfolk-Stanton Project 87-B, Stanton Co. $32,000, 11.354 mi. Stanton-Wisner Project 70-A, Stanton Co. $42,000, 13.364 mi. Scotia-Buxwell Project 85-A, Valley Co. $49,000, 11.22 mi. Wayne-Wisner Project 70-B, Wayne Co. $42,000; grading, bridging, etc., 8.24 mi. Ainsworth-Norden Project 238-A, Brown Co. $50,000, for State Hy. Dept., Lincoln.

Nebraska—May 28, by R. L. Cochrane, highway engr., Lincoln, gravel surfacing 112,000 sq.yd., Columbus-Norfolk Rd., Platte Co., $26,000; 75,000 sq.yd. Columbus-Norfolk Rd., Madison Co., $25,000; 6.766 mi. Pierce-South East Project 64-A, Pierce Co., $26,000; 7.553 mi. Cushing-Grand Island Project 60-A, Howard Co., $25,000; 6.5 mi. Max-Doane Project 41, Dundy Co., $25,000, for State Hy. Dept., Lincoln.

Nebraska — May 29, by R. L. Cochrane, highway engr., Lincoln, gravel surfacing 8.3 mi. Red Cloud-Ayr Rd., Federal Aid Project 32, Webster and Adams Counties $30,000; 197,000 sq.yd. Nebraska City-Plattsmouth Rd., Cass Co., $60,000; 158,900 sq.yd. Blair-Oakland Rd., Burt Co., $30,000; 210,400 sq.yd. Lincoln-Beatrice Rd., Gage Co., $43,000; 228,200 sq.yd. Superior-Harvard Rd., Clay Co., $36,000; 242,250 sq.yd. Superior-Harvard Rd., Nuckolls Co., $38,000, for State Hy. Dept., Lincoln.

Nebraska — May 29, by R. L. Cochran, state highway engr., Lincoln gravel surfacing 15.269 mi. Table Rock-Lewiston Project 91-A, Pawnee Co. $57,000, 11.959 mi. road east of Crete, Federal Aid Project 98-A, Lancaster Co. $65,000, 8.466 mi. Crete-Dorchester Project 98-C, Saline Co. $30,000, 8.447 mi. Dunbar-Syracuse Project 133-A, Otoe Co. $41,000, 11.22 mi. Hastings-Ayr Project 77, Adams Co. $40,000, 12.508 mi. Fairmont West to Co. Line Project 171-A, Fillmore Co. $47,000, 74,500 sq.yd. Milford-Seward Project 226, Seward Co., $25,000; grading, etc. 5.868 mi. Holdredge-Loomis Project 251-A, Phelps Co. $26,000, 8.295 mi. Wymore-South Project 250-A, Gage Co. $30,000, 12.6 mi. Orleand-Oxford Project 240-A, Harlan Co., $35,000, for State Hy. Dept., Lincoln.

North Dakota—May 28, by State Hy. Comn., and Comrs. McHenry Co., at Court House, Towner, grading and sand clay surfacing, etc., 11,081 mi. road from Riga to Towner, Federal Aid Project 274 A; and 6.499 mi. road south and east of Velva, Federal Aid Project 270 A.

North Dakota — June 2, by State Hy. Comn., and Bd. Comrs. Stutsman Co., at Court House, Jamestown, grading and graveling, etc., 8.511 mi. road from Jamestown west, Federal Aid Project 279; 11.562 mi. road from Jamestown north and west, Federal Aid Project 56 A and B; and 8.01 mi. road from point 5 mi. south of Jamestown, Federal Aid Project 56 G and H.

North Dakota — June 3, by State Hy. Comn., and Bd. Comrs. Steele Co., at Court House, Finley, clearing and grubbing, etc., 5.031 mi. road from Finley south, Federal Aid Project 233 A.

South Dakota — May 26, by State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project)**, graveling 11.5 mi. F. A. P. 179, Duel Co., 18.6 mi. F. A. P. 183 A, Beadle Co., 11.2 mi. F. A. P. 162 A, 6.9 mi. F. A. P. 162 B, and 6.9 mi. F. A. P. 117 in Haakon Co., 15.6 mi. F. A. P. 95 A, and 8.3 mi. F. A. P. 95 C, Faulk Co., 10 mi. F. A. P. 168 A, Clay Co., 11.1 mi. F. A. P. 170 E, Turner and Minnehaha Counties, 5 mi. F. A. P. 14 B, Stanley Co.; also grading 0.53 mi. F. A. P. 165 C, Brule Co., 6.51 mi. F. A. P. 173 C, Faulk Co.; and two 23 ft. viaducts on F. A. P. 173 C, Faulk Co. T. Soleglad, acting highway engr.

South Dakota — May 26, by State Hy. Comn., Pierre, **(F. A. P. means Federal Aid**

Streets and Roads (Continued)

Project), grading, etc., 17.5 mi. F. A. P. 178-B and 200-A Hutchinson Co., 12.47 mi. F. A. P. 177-B Pennington Co., 7.1 mi. F. A. P. 170-F Minnehaha Co., 15.09 mi. F. A. P. 196-A Aurora Co., and 18.22 mi. F. A. P. 191-D, Clark Co.; graveling 14.7 mi. F. A. P. 185-D, Jackson Co.; one 33 ft. and one 78 ft. viaduct on F. A. P. 188-D, McCook Co., one 34 ft. viaduct on F. A. P. 177-B, Pennington Co., one 40 ft. viaduct on F. A. P. 178-B, Hutchinson Co. T. Soleglad, acting highway engr.

Mo., St. Louis—June 2, by Bd. Pub. Wks., 208 City Hall, grading and waterbound macadam paving private road from Hog Hollow to Little Lake Rds. $52,000. E. E. Wall, City Hall, comr.

Arkansas—May 29, by State Hy. Dept., Little Rock, clearing, grubbing, grading, curbing and concrete surfacing 6.25 mi. Federal Aid Project 216-A, 18 ft. R. C. Limerick, highway engr.

Ark., Arkadelphia — May 25, by J. G. Clark, chn. Bd. City Comrs., grading, curbing and sheet asphalt, brick or rein.-con. surfacing 20,000 sq.yd. Impvt. Dist. 2. E. F. Peterson, Texarkana, engr.

Ark., Batesville—May 26, by V. Wade, city secy., grading, curbing and sheet asphalt surfacing 76,000 sq.yd. Dist. 4. $247,000. W. R. Hagler & Son, Paragould, engrs. Noted Mar. 5.

Ark., Warren—May 28, by L. Ederington, secy. Bd. City Comrs., grading, curbing, rein.-con. or asphalt on concrete surfacing 20,000 sq.yd. Impvt. Dist. 1. E. F. Peterson, Texarkana, engr.

Tex., Anderson—June 2, by Comn. Court Grimes Co., grading and bridging 6.71 mi. State Highway 6, Federal Aid Project 471-B. $110,000. O. A. Seward, Jr., Navasota, engr. Noted Apr. 9.

Tex., Anson—June 5, by F. E. Devlin Eng. Co., Anson, and Bitting Bldg., Wichita, Kan., grading, bridging, etc., 15.73 mi. State Highway 83, State Aid Project 598-A, $52,300; and 15.97 mi. State Highway 83, State Aid Project 598-B, $140,000, for Jones Co.

Tex., Cameron—June 5, by A. F. Mitchell, engr. Milam Co., grading, bridging and gravel surfacing 7.6 mi. State Highway 36, Federal Aid Project 359, 18 ft. $110,500. Noted Apr. 16.

Tex., Linden—Cass Co. taking bids grading and bridging 7.43 mi. Linden Rd., State Highway 48, 18 ft. $77,000. F. E. Hess, Linden, engr. Noted Apr. 23.

Wash., Kalama—June 1, by Clerk Cowlitz Co., improving South Silver Lake Rd., 14.22 acres clearing, 8.8 acres grubbing, 16,682 cu.yd. earth, 750 cu.yd. loose and 660 cu.yd. solid rock excav., etc. E. A. Middlebrooks, Kelso, engr.

Wash., Seattle—June 1, by Comrs. King Co. grading, paving, etc., 2.62 mi. 16th Ave. S. W. extension of Lake Burien Highway. $90,000. T. R. Beeman, Seattle, engr.

Calif., Bakersfield—City Council taking bids improving Chester Lane, 154,948 sq.ft. 1½ in. warrenite bituminous on 3½ in. asphaltic concrete surfacing, 154,948 sq.ft. sub-grade, 14,456 sq.ft. concrete guttering, and 1,784 lin.ft. concrete curbing. To exceed $35,000. Noted May 14.

Calif., Maryville — City Council taking bids for concrete curbing, guttering, sidewalks, and 1½ in. Warrenite on 2½ in. asphaltic concrete paving portions of C, 9th, 13th Sts., etc. To exceed $25,000. L. B. Crook, city engr.

Ontario—June 1, by S. L. Squires, deputy minister highways, Parliament Bldg., Toronto, concrete paving 41.57 mi. Contrs. 1203 to 1211 inclusive, $1,200,000; penetration macadam paving 38.92 mi. Contrs. 1212 to 1220 inclusive, $600,000; waterbound macadam paving 6 mi. Contr. 1221, $75,000; grading 6.55 mi. Contrs. 1222 to 1225 inclusive, $80,000; surface treating 52.5 mi. macadam roads Contrs. 1226 to 1233 inclusive, $50,000; extending and improving bridges, etc., in Contrs. 1234 to 1247 inclusive. G. Hogarth, ch. engr.

Ont., Guelph—May 21, by J. Beatty, Fergus, rein.-con. paving 7,800 sq.yd. county roads. $30,000. A. W. Connor & Co., 301 Metropolitan Bldg., Toronto, engrs.

BIDS RECEIVED

New Hampshire—State Hy. Dept., Concord, concrete paving 1.87 mi. highway at Berlin, from P. J. Keating, Fitchburg, Mass., $50,571; 80 ft. span girder plate bridge, at Epsom, from D. Chesley & Co., Dover, $14,269. Noted Apr. 30.

Massachusetts — Dept. Pub. Wks., Div. Highways, State House, Boston, May 5, bituminous macadam and concrete paving 23,033 ft. highway in Stoughton and Canton, from C. Bianchi, Framingham, $268,201; concrete paving 24,121 ft. in Somerset, from J. McCormick, 319 Taunton Ave., Providence, R. I., $313,695, 2,400 ft. in Swampscott, from J. W. Sheehan, Lynn, $39,319; bituminous concrete paving 5,638 ft. in Harwich, from W. A. Jones, Barnstable, $20,195; bituminous macadam paving 1,900 ft. in Northboro, from W. H. Hinman, Medway, $13,396, 5,242 ft. in Hingham and Cohasset, from Boston Constr. Co., 288 Summer St., East Boston, $73,740, and 1,700 ft. in Freetown, from Canedy Constr. Co., New Bedford, $12,090. Grand total $740,636. Noted Apr. 30.

Massachusetts—Dept. Pub. Wks., Boston, May 12, macadam paving 7,444 ft. highway in Southampton and Easthampton, from W. C. Tannett, Jr., 41 East Union St., Easthampton, $57,787; concrete paving 14,953 ft. highway in Auburn and Oxford, from T. G. Jewett, Jr., 35 7th St., New Bedford, $150,427; bridge and approaches on 1,850 ft. highway in Northbridge, from R. A. Doyle, 32 Caldwell Crescebt, Lynn, $37,596. Noted May 14.

R. I., East Providence (Providence P. O.) —Metropolitan Park Comn., State House, Providence, bituminous macadam paving 2½ mi. roadway in Barrington Parkway, from B. C. Jordan, 1122 Elmwood Ave., Providence, $69,183.

R. I., Providence—Water Supply Bd., City Hall, Apr. 29, grading about 1 mi. earth road near Rockland and Ponaganset in Scituate, from E. L. Gobielle, Inc., Worcester, Mass., $30,265. Noted Apr. 9.

New York—State Dept. Pub. Wks., Albany, May 15, **(e. e. means engineer's estimate)**, constructing and reconstructing 3 mi. Highway 5282, Ovid-Romulus, Seneca Co., and 10.24 mi. Highway 8208, Clymer-Panama, Chautauqua Co., from D. T. Ripton, Inc., Rochester, $89,710 and $507,290 respectively, e. e. $108,739 and $639,233 respectively; 1.72 mi. Highway 5111, Jericho Turnpike, Part 2, Suffolk Co., and 0.99 mi. Highway 9020, Nassau Co., from Heling Contg. Corp., Lindenhurst, $82,455 and $54,078 respectively, e. e. $99,513 and $66,360 respectively; 3.56 mi. Highway 8210, Marcellus-Syracuse Part 2, Onondaga Co., from Holmes & Bergdorf, Syracuse, $151,589, e.e. $180,232; 9.03 mi. Highway 8209, Chenango Forks-Whitney Point, Parts 1 and 2, Broome Co., from J. F. Paddelford, Sherburne, $443,750, e. e. $549,071; 3.88 mi. Highway 5169 Saugerties-Catskill Part 1, and Highway 5169 A, Part 1A, Ulster and Greene Counties, from Riteway Constr. Corp., 104 Reade St., New York City, $184,367, e. e. $217,607; 2.61 mi. Highway 50, Armonk-Mt. Kisco, Westchester Co., from A. D. Bridges Sons, Inc., Hazardville, Conn., $156,838, e. e. $200,582; 9.015 mi. Highway 8211 and 8212 Rushford-Fairview and Sandusky-Fairview, Allegany and Cattaraugus Counties, from McKibben-Rockwell Corp., Hornell, $431,177 e. e. $507,032; 4.36 mi. Highway 8213, Natural Bridge-Harrisville, Part 2, Lewis Co., from Saratoga Co., Albany $211,326, e. e. $236,105; 5.72 mi. Highway 1709, Great Valley-Cadiz Part 1, Cattaraugus Co., from E. C. Jones, Salamanca, $263,232, e. e. $322,927.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., May 14, bituminous concrete paving Mt. Eden Ave., and granite block repaving East 149th St., from Asphalt Constr. Co., 208 Bway., $14,962 and $211,706 respectively; granite and asphalt block repaving Fordham Rd., from Regan Towers Co., 124 West 121st St., $179,104; grading, etc., Adams St., from M. Del Balso, 660 East 221st St. $3,991, Calhoun Ave. from Spadaro Contg. Co., Inc., 375 East Fordham Rd. $10,788, Bogart Ave., from S. Nugent, 285 West 150th St., $10,983. Noted May 7.

New Jersey—State Hy. Comn., Trenton, May 11, grading, concrete paving, etc., 86,693 sq.yd. Route 4, Sect. 30, Manahawkin-Tuckerton, Ocean Co., from Union Paving Co., 30th and Locust Sts., Phila., Pa., $345,413.

Maryland — State Roads Comn., Baltimore, concrete shoulders on 2 mi. Contr. 0260 A, Howard Co., from M. J. Grove Lime Co., Lime Kiln $24,928, 8 mi. Contr. WI-6-A, Wicomico Co., from Hannemann-Burroughs Co., Salisbury $37,788, 4.25 mi. Contr. F-5-A, Frederick Co., from Poffenberger & Mause, Meyersville $41,615, 4.75 mi. Contr. M-3-A, Montgomery Co., from Cranford Co., 3056 K St., Wash., D. C., $44,253, 4.5 mi. Contr. T-2-A, Talbot Co., from J. K. Flick, Sudlersville, $46,035; graveling 1.5 mi. Contr. SM-33, St. Marys Co., from T. B. Lewis & Son, Hyattsville $11,959, 2 mi. Contr. P-57, Prince Georges Co., from St. Marys Constr. Co., Mechanicsville, $17,950; sheet asphalt paving 0.39 mi. Contr. BC-12-C, Baltimore Co., from Amer. Paving & Constr. Co., Montebello Ave., Baltimore, $29,691, 0.43 mi. Contr. BC-54, Baltimore Co., from P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., Baltimore, $65,922. Noted Apr. 30.

Md., Baltimore—Grading, curbing and concrete paving 12,770 sq.yd. Contr. 282-OANA, from G. Long Constr. Co., 1st Ave. and 12th St., $33,760.

Md., Baltimore—Bd. Awards, sheet asphalt paving 8,530 sq.yd. Contr. 281-OC, from Amer. Paving & Constr. Co., Montebello Ave., $42,939; concrete paving 13,160 sq.yd. Contr. 280-NA, from Aiello Constr. Co., 4th and Gough Sts., $37,982. Noted Apr. 30.

North Carolina—State Hy. Comn., Raleigh, from Jamison Bros., High Point, clearing, grubbing and grading, etc., 12.27 mi. Project 235, Johnston Co. $70,458, clearing, grubbing, grading, top soiling, etc., 17.75 mi. Project 128, Edgecomb Co., $77,372; from N. L. Teer, Durham, clearing, grubbing, grading, etc., 8.9 mi. Project 105E, Beaufort Co. $59,421; from Hanford Bros., Burlington, 11.8 mi. Project 581, Randolph Co. $54,493; grading and top soiling, etc., 7.5 mi. Project 609, Anson Co., $51,584; from T. C. Hurlocker, Albermarle, clearing, grubbing, grading, etc., 10 mi. Project 396, Robeson Co. $48,860; from Noll Constr. Co., Charlotte, grading and concrete or asphaltic paving 9.4 mi. Project 283, Wayne Co. $314,132, 9.3 mi. Project 660, Necklenberg Co. $305,413, from G. H. Gregory & Co., Taylors, S. C., 8 mi. Project 534, Guilford Co. $231,214, 10.3 mi. Project 746, Forsythe Co., $27,657, from R. H. Wright & Sons, Asheville, 11.6 mi. Project 953B Jackson Co. $221,649, from Wilson Constr. Co., Rutherfordton, 8.1 mi. Project 967, Macon Co. $236,778, from Foster Constr. Co., Wilkesboro, 3.6 mi. Project 450, Lee Co. $116,473, from F. G. McGuire, Bankers Trust Bldg., Norfolk, Va., 4.15 mi. Project 181, Perquimaus Co. $114,150, 4.46 mi. Project 107 C, Bertie Co. $132,973, clearing, grubbing, grading, and concrete or asphaltic paving 4.9 mi. Project 105C, Beaufort Co., $168,811; from Blythe Bros., Charlotte, grading and concrete or asphaltic paving 8 mi. Project 488, Wake Co. $212,445; from Hudson & Scruggs, Wilmington, grading and sand asphalt paving, etc., 5 mi. Project 310, Brunswick Co. $92,873, from R. G. Lassiter & Co., Raleigh, 9.2 mi. Project 564, Moore Co. $168,211, from Highway Eng. and Contg. Co., Selbyville, Del., 6 mi. Project 565, Moore Co. $122,172. Noted Apr. 23.

Mich., Kalamazoo—Concrete paving 0.869 mi. road, 27 and 35 ft., from W. Neal & Son, Kalamazoo, $47,267.

Wis., Hartford — W. Radtke, city clk., May 5, from Lex Constr. Co., 446 68th Ave., West Allis, paving 7,000 sq.yd. Johnson and Wisconsin Sts., one course concrete at $23,237, two course concrete $24,847, and vibrolithic $25,057. Noted Apr. 23.

Wis., Green Bay—W. L. Kerr, city clk., City Hall, improving various streets (1) 25,900 lin.ft. concrete curbing and guttering (2) 14,600 cu.yd. grading (3) 40,300 sq.yd. paving with (a) concrete (b) natural asphalt (c) oil asphalt, from J. Brogan & Sons, 700 Dousman St., curbing only $0.95 per lin.ft., (2) $0.54, (3a) at $2.44 and $2.49; from F. P. Coughlin Co., 130 North Wells St., Chicago, Ill., (1) $0.80, (2) $0.50, (3b) $2.50 and $2.60; from Ford Paving Co., Cedar Rapids, Ia., (1) $0.50 (2) $1, (3c) $2.42 and $2.52. Noted Apr. 23.

Wis., Madison — H. C. Buser, city clk., from J. Icke, Washington Bldg., rein.-con. paving Chadbourne Ave. $3,150, Fox Ave. $5,750, Spaight and Jenifel Sts. $66,500, Charter St. $1,400, Chestnut St. $6,100, Wilson St. $53,500, Spooner St. $4,300, East Main St. $8,400, Deloplaine Court $2,363; from O'Dea & Schafer, Oregon Rd., Thurston Ave. $7,500; from N. Quinn, 5 North West Johnson St., Rodney Court $3,246, St. Paul Ave. $6,000; from D. E. Harrington & Sons, Madison, Breeze Terrace, $2,785.

Wis., Milwaukee—Dept. Pub. Wks., sheet asphalt resurfacing 11th St. between State St. and Grand Ave., from Badger Constr. Co., 97 Wisconsin St. $17,771, 26th St. between Burnham and Lincoln Aves., from White Constr. Co., 68 Wisconsin St., $20,807; grading 23rd St. between 24th and West 24th Sts., and 25th St. between 26th and Melvina Sts., from A. Schroeder, 20th St. and Atkinson Ave., $6,736 and $6,329 respectively; vibrolithic concrete paving Lake St., from W. F. Hunt, 405 Bway., $39,477.

Oklahoma — State Hy. Dept., Oklahoma City, May 5, improving 7.85 mi. road East of Enid, Federal Aid Project 179, Garfield Co., 82,895 sq.yd. concrete, 28,050 cu.yd. excav., 26,264 cu.yd. borrow, 9,342 sq.yd. overhaul, etc., from J. B. and L. Paving Co., Stevenson Bldg., Enid, $226,788. Engrs. est. $245,000. Noted Apr. 30.

California—State Hy. Comn., Sacramento, grading and concrete paving 3.6 mi. highway between point 2 mi. south of San Onofre and Northerly Boundary, San Diego Co., from R. A. Wattson, 2304 Hyperion St., Los Angeles, $119,057. Engrs. est. $139,517. Noted Apr. 23.

Calif., Santa Rosa — Sonoma Co., from Associated Constr. Co., 564 Market St., San Francisco, improving 12.66 mi. road from Monte Rio to end of present concrete

Streets and Roads (Continued).

highway between Sebastopol and Freestone, 31,675 cu.yd. excav. at $0.75 per cu.yd., 117,397 sq.yd. subgrade $0.20, 117,453 sq. yd. 5 in. macadam at $0.35, 117,453 sq.yd. asphalt surfacing at $0.30, total $145,200. Noted Dec. 25.

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks., Boston, bitulithic paving streets in Dorchester and West Roxbury, to S. J. Tomasello, 11 Cushing Terrace, Dorchester, $29,396.

Massachusetts — Dept. Pub. Wks., State House, Boston, bituminous concrete paving 2,600 ft. highway in Sandwich and bituminous macadam paving 4,600 ft. in Mashpee, to Washburn & Sheriden, East Taunton, $7,499 and $19,998 respectively; bituminous macadam paving 3,600 ft. in Seekonk, to J. McCormick, 319 Taunton Ave., East Providence $23,316, 15,112 ft. in Belchertown, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $121,901, 7,830 ft. in Groveland, to M. McDonough Co., Swampscott, $42,583; waterbound macadam paving 3,686 ft. in Rehoboth and Dighton, to F. L. McNeil, Winthrop St., North Dighton, $15,364. Grand total $228,661. Noted May 7.

Massachusetts — Dept. Pub. Wks., Div. Highways, State House, Boston, concrete and bituminous macadam paving 23,033 ft. highway in Stoughton and Canton, to C. Bianchi, Framingham, $268,201; concrete paving 24,121 ft. highway in Somerset, to J. McCormick, 319 Taunton Ave., East Providence, R. I., $313,695, 2,400 ft. highway in Swampscott, to J. W. Sheehan, Lynn, $39,319; bituminous macadam paving 5,638 ft. highway in Harwich, to W. A. Jones, Barnstable, $20,195, 1,900 ft. highway in Northboro, to W. H. Hinman, Medway, $13,396, and 1,700 ft. highway in Freetown, to Canedy Constr. Co., New Bedford, $12,090. Grand total $666,896. Noted May 21.

Massachusetts—Metropolitan Dist Comn., 1 Ashburton Pl., Boston, resurfacing Furnace Brook Parkway in Quincy and Milton, to A. W. Loud, 18 Granite St., $26,855. Noted May 14.

N. Y., Long Island City — M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Cleveland Trinidad Asphalt Paving Co., Flushing, grading, curbing and sidewalks on 95th St. $36,605, 99th St. $19,295; to Welsh Bros. Contg. Co., 32 Queens St., Astoria, regrading, recurbing and reflagging Ely Ave. $41,313, grading, curbing and sidewalks on Roosevelt Ave. $27,994, 102nd St. $10,480; to Uvalde Asphalt Paving Co., 1 Bway., New York City, grading, curbing and sidewalks on 112th St. $20,426, 109th St. $14,885. Noted Apr. 30.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., to D. J. McCarthy, 88 Audubon Ave., granite block repaving Dover St. $36,255, Little West 12th St. $23,781; to W. J. Fitzgerald, 547 West 45th St., West 12th St. from Greenwich to West Sts., $26,995; to C. Helbock, 633 Wales Ave., granite block paving 2nd Ave. $40,394, widening and sheet asphalt repaving 5th Ave. $23,189; to O. D. Beckwith, 2875 Bway., grading Riverside Dr. $58,285. Noted May 14.

N. Y., Scarsdale—Bronx Parkway Comn., 72 West Pondfield Rd., Bronxville, asphalt paving 9,600 sq.yd. Bronx River Parkway Dr., to Hastings Pavement Co., 25 Broad St., New York City, $39.700. Noted Apr. 23.

N. J., Elizabeth—Bd. Pub. Wks., paving 2 streets, to J. B. Gilligan, Casey Co., 972 Broad St., Newark, $91,651; 12 streets, to Gilligan, Barrett, Cahill Co., Broad St., Newark, $197,577; paving Bayway, to Standard Bitulithic Co., Brill St., Newark, $85,159.

N. J., Jersey City—Hudson Co., concrete and granite block paving Tonnele and Manhattan Aves., to M. H. Dunn, 45 Clendenny Ave., $116,088.

N. J., Lakewood — Ocean Co. (Toms River), improving 1¾ mi. Lakewood-Grovers Corner Rd., here, to S. S. Thompson, Red Bank, $63,266.

N. J., Moorestown—Freeholders Burlington Co. (Mt. Holly), concrete paving 9,250 sq.yd. South Church St., here, to W. S. French Co., 226 West Main St., $44,042. Noted May 14.

N. J., Nutley — Freeholders Essex Co. (Newark), paving 1½ mi. River Rd., here, to Standard Bitulithic Co., Brill St., Newark, $72,357.

N. J., Palmyra — Burlington Co. (Mt. Holly), cement paving 12,000 sq.yd. Broad St., here, to Union Paving Co., 30th and Locust Sts., Phila., Pa., $41,894.

N. J., Woodbury—State Hy. Dept., Trenton, asphalt paving 7,171 sq.yd. Broad St., here, to Union Paving Co., 30th and Locust Sts., Phila., $32,622.

Pa., Phila.—Dept. Hys., Dept. Pub. Wks., to Stange Constr. Co., 1703 North 55th St., grading Pattison St. from 10th and 11th Sts., also 10th and 11th Sts. $374,899, Pattison St. from 11th to Broad Sts. $92,650, and Pattison St. from 20th to Broad Sts. $121,322; to Provident Housewrecking Co., 133 Greenwich St., Packer St. $113,914. Grand total $702,785. G. H. Biles, dir.

Maryland—State Rds. Comn., Baltimore, sheet asphalt paving 0.52 mi. Contr. BC-53, Baltimore Co., to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., Baltimore, $119,278; concrete shoulders on 3 mi. Contr. B-12D, Baltimore Co., to P. Reddington & Son, 2 East Lexington St., $31,623; concrete paving 1.44 mi. Contr. WI-27, Wicomico Co., to Thomas, Bennett & Hunter, Westminster, $112,320, and 1.02 mi. Contr. M-56, Montgomery Co., to M. J. Grove Lime Co., Lime Kiln, $47,609. Grand total $310,830.

W. Va., Huntington — For 4 in. brick, asphalt filler surfacing 10th St., to Gerchow & McGinnis, Huntington, $27,214; brick on concrete surfacing Edgemont Rd., to Harrison & Dean, Old Walton Bldg., $27,379.

W. Va., Princeton—Vitr. brick surfacing sections of 8 streets, to Municipal Paving & Constr. Co., Johnson City, Tenn., $42,888.

Alabama—State Hy. Dept., Montgomery, concrete surfacing 14 mi. Jasper-Oakman Highway, 18 ft., to Finnell Toothaker Contg. Co., Tuscaloosa, $150,000.

Ala., Florence — Sheet asphalt surfacing 10 blocks various streets, 40 ft., to Independent Paving Co., Amer. Trust Bldg., Birmingham. $114,961, engrs. est. $115,000; concrete curbing and guttering 10 blocks various streets, to Mitchell Bros., Amer. Trust Bldg., Birmingham, $23,780, engrs. est $24,000.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, constructing 9.24 mi. Winnsboro-Delhi Highway, State Project 336 C, Franklin Parish, to Highway Constr. Co., Godchaux Bldg., New Orleans, $84,807; 7.15 mi. Pershing Highway, Federal Aid Project 148 B, to F. D. Harvey & Co., Memphis, Tenn., $49,765; 7.15 mi. Kaplan-Crowley Highway, State Project 447, Vermilion Parish, to R. Crane, Poplarville, Miss., $32,461; 4.43 mi. Morrow-Moreauville Highway, State Project 468 A, St. Landry Parish, to J. C. Leathers, Poplarville, Miss., $17,855; 3.83 mi. Natchitoches-Boyce Highway, State Project 429 A, Natchitoches Parish, to Byrd & Clopton, Morrow, $14,468.

La., Natchitoches — Natchitoches Parish grading and gravel surfacing 11 mi. Bermuda-Derry Rd., to McKeithen Constr. Co., Grayson, $46,946, and 6 mi. Powhattan-Allen Rd., to Natchitoches Constr. Co., Cypress, $20,398; gravel, to Thomas Gravel Co., Alexandria, $12,140.

O., Steubenville—Jefferson Co., resurfacing Smithfield-Hopedale Rd., to B. Stringer & Co., Steubenville, $40,614. Noted Apr. 30.

Mich., Detroit—To Cooke Asphalt Paving Co., 1260 Penobscot Bldg., grading and sheet asphalt paving 9,750 sq.yd. Riopelle Ave. $43,156, 13,970 sq.yd. State Fair Ave. $60,441, 4,980 sq.yd. Margaret Ave. $22,977, 4,030 sq.yd. Orleans St. $18,275, 4,005 sq.yd. Greeley Ave. $18,404, 4,030 sq.yd. Riopelle St. $18,407; to Detroit Asphalt Paving Co., 909 Free Press Bldg., 14,950 sq.yd. Nottingham Ave. $67,383, 23,910 sq.yd. Six Mile Rd. $101,565, 11,450 sq.yd. Jane Ave. $52,462, 4,175 sq.yd. Renville Ave. $19,466, 3,440 sq.yd. Fournier Ave. $15,316, 13,400 sq.yd. Flanders Ave. $58,968, 8,800 sq.yd. Moran St. $38,916, 3,855 sq.yd. Girardin Ave. $17,720, 1,010 sq.yd. Kentucky Ave. $4,686, 1,000 sq.yd. Indiana Ave. $4,679, 9,025 sq.yd. Kilbourn Ave. $40,820, 9,050 sq.yd. Traverse Ave. $40,088; to C. L. Lincoln, 12337 Indiana Ave. 2,970 sq.yd. Dayton St. $13,862, 2,870 sq.yd. Smart Ave. $13,091; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., 5,675 sq.yd. Ironwood Ave., Sect. 2 $26,741. Grand total $697,423.

Mich., Port Huron—St. Clair Co., graveling 4.539 mi. Assessment Dist. 30, and 2.728 mi. Assessment Dist. 77, to Peacock Constr. Co., Yale, $56,230 and $35,826 respectively; 12.694 mi. Assessment Dist. 35, to C. McComb, Algonac, $176,800. Noted May 14.

Mich., St. Johns—Clinton Co., graveling 35,124 sqy.d. Assessment Dist. Rd. 18, Sect. 2, to R. E. Bailey, Corunna, $46,948; and 35,456 sq.yd. Assessment Dist. 18, Sect. 1, to J. E. Van Dyne, Clare, $52,421. Noted May 14.

Ill., Carbondale — Grading, curbing and concrete surfacing streets in Paving Dist. 16, to Hamilton-Hoffman Constr. Co., Carbondale, $32,399. Noted Jan. 29.

Ill., Hinsdale—For 25,300 ft. 5 ft. cement sidewalks and 320 ft. vitr. clay sewers in Dist. 195, and 16,500 ft. 5 ft. cement sidewalks and 110 ft. sewer, etc., in Dist. 196, to S. J. Gottschalk Constr. Co., Homewood, $29,207 and $18,903 respectively.

Ill., Kewanee—Bd. Local Impvts., grading, curbing and granite on rein.-con. and vibrolithic concrete surfacing, etc., Burr, Elm, 1st and Lysle Sts., also Prospect, Franklin, 5th and Grove Sts., to Gund Graham Co., 304-305 Crum and Forest Bldg., Freeport, $40,054 and $66,877 respectively. Engrs. est. $47,721 and $78,875 respectively. Noted Apr. 16.

Ill., Peoria—Bd. Local Impvts., grading and vitr. brick block surfacing 7th Ave. from Union St. to 2nd Ave., to Tuttle & Bidleman, Peoria, $27,086; grading and paving Alley Block 10, Callender & Ayes Addition, to E. A. Buchholtz, 1317 Columbia Terrace, $1,830.

Ill., Peoria — Road & Bridge Comn., Peoria Co., gravel surfacing 10.5 mi. various State Aid Roads, 12 ft. wide and 9 in. deep, to Tuttle & Bidleman, Peoria, $22,378; also 9.5 mi. various roads, to C. I. Swords, Peoria, $25,106.

Wisconsin — State Hy. Comn., Madison, to M. Martin Co., Berlin, improving Marshfield-Ashland Rd., Marathon Co., 17,832 cu. yd. excav. at $0.65 per cu.yd., 110,584 sq. yd. concrete paving, etc., $1.27 per sq.yd., total $163,627.

Wis., Clintonville — Vibrolithic concrete paving, etc. 10,096 sq.yd. West 8th and North Main Sts., to A. Larsen & Co., Oshkosh, $37,447.

Wis., Menasha—J. F. De Caro, city clk., curbing, guttering and concrete surfacing approximately 10,556 sq.yd. Elm and Tayco Sts., to Schneider Contg. Co., Menasha, $30,977. Noted May 7.

Wis., Waukesha — State Hy. Comn. at Div. Office 2, Stephenson Bldg., Milwaukee, to H. O. Shafer & Sons, Green Bay, improving Milwaukee-West Bend Rd., Federal Aid Project 352-A, Waukesha Co., 20,327 cu.yd. earth excav. at $0.55 per cu.yd., 200 cu.yd. loose rock excav. $1, and 100 cu. yd. solid rock excav. $2.50, 12,611 cu.yd. borrow $0.55, 31,766 sq.yd. concrete paving $1, total $61,625.

Ia., Garner—Hancock Co., grading 87,669 sq.yd. Secondary-Primary Project S-18, to L. O. Kimball, Clear Lake, $24,898; 36,055 ft. 6 in. tile, 13 intakes, etc., for above, to A. Eikwald, Emmetsburg $3,909.

Ia., Hampton — Franklin Co., grading, gravel surfacing, etc., 12.22 mi. No. S-16, and 4.12 mi. Project 212, to M. O. Weaver, Iowa Falls, $28,628 and $6,669 respectively; gravel surfacing 5,000 yd. Project 414, to Heldt & Boyles, Everly, $3,084.

Ia., Pocahontas—Pocahontas Co., grading, etc., 21 mi. Second-Primary Rd., Project S-22, to Hartman & Peterson, Laurent, $36,256.

Ia., Rockwell—Calhoun Co., grading 5 mi. road near Piper and 12 mi. secondary road in Garfield and Elk Grove Twps., to E. A. Wickham & Co., 19 Scott St., Council Bluffs, $30,000.

Minn., Benson—D. P. Carney, aud. Swift Co., to Boyd Constr. Co., Benson, grading, etc. 59,176 cu.yd. Job 2501 $14,190 37,483 cu.yd. Job 2502 $8,492 and 15,670 cu.yd. Job 2506 $4,116. Grand total $26,798. Noted Apr. 9.

Kan., Topeka — Asphaltic concrete on 7 in. concrete surfacing, etc., 58,597 sq.yd. various streets, to Kaw Paving Co., 609 New England Bldg., $243,749; 12 x 6 ft. concrete box with end retaining walls, to C. A. Ritchie, 1180 Vulvane St., $4,875.

Nebraska—State Hy. Dept., Lincoln, concrete paving 26,000 sq.yd. Maple St. west of 84th St., to J. J. Parks, South Omaha, at $2.10 per sq.yd., engrs. est. $55,000; also 5.5 mi. road, both Douglas Co., to Metz Constr. Co., Springfield, $2.03, engrs. est. $110,000.

Neb., Crete—Warrenite bitulithic paving 9 blocks in Dist. 19, and 8 blocks in Dist. 20, to Allied Contractors, Inc., 1803 Douglas St., Omaha, $32,466 and $32,771 respectively.

Neb., Rising City—W. A. Nodding, village clk., grading, curbing, guttering, concrete paving, etc., 9,420 sq.yd. streets in Paving Dist. 1, to Amer. Paving Corp., 1325 Grace St., Omaha, $27,527.

S. D., Vermilion — Paving and curbing about 50,000 sq.yd. various streets, to P. C. Hansen & Son, 1422 Court St., Sioux City, Ia., 6 in. concrete at $1.77 per sq.yd. Noted Mar. 6, 1924.

Mo., Maryville—Grading, curbing and 7 in. concrete paving 8,135 sq.yd. Market, Dunn and South Main Sts., to Cook & O'Brien Constr. Co., 305 Railway Exch., Kansas City, $28,384. Noted Apr. 23.

Arkansas—State Hy. Dept., Little Rock, clearing, grubbing, grading and bridging 11.9 mi. Federal Aid Project 187-A, 18 ft., Sebastian Co., to Maney Bros. & Co., Empire Bldg., Oklahoma City, Okla., and Campbell Bros., 603 Kemper Bldg., Kansas City, Mo., $80,549; 7.2 mi. Federal Aid Project 191-B, 18 ft., Lee Co., to C. L. Hager, Walnut Ridge, $46,724; and 11 mi. Arkansas-Missouri Highway, 18 ft., Pulaski Co., to Kellher Constr. Co., Southern Trust Bldg., Little Rock, $308,934. Noted Mar. 19 and Apr. 23.

Ark., North Little Rock—Concrete curbing and storm sewers in East 2nd, Buckeye,

Streets and Roads (Continued)

21st and 25th Sts. and 5 in. one course concrete surfacing Hazel, Beech and Buckeye, Washington, East 2nd and Hazel Sts., all above in Paving Dists. 30 and 31, to Southern Sand & Constr. Co., foot Ashley St., Little Rock, $56,287. Noted Mar. 5.

Tex., Del Rio—Asphalt on macadam surfacing Main, Losoya, Greenwood, Spring, Garfield, Martin, East Bway. and Brorum Sts., to Uvalde Co., City Natl. Bank Bldg., San Antonio, $300,000.

Tex., Houston — Harris Co., surfacing Bissonet Ave. from Dulavy St. to Reinermann Ave., to Uvalde Rock Asphalt Co., 829 Bankers Mortgage Bldg., $52,241. Engrs. est. $55,000.

Tex., Jacksboro — Jack Co., clearing, grubbing, bridging and grading 12.8 mi. State Highway 25, State Aid Project 568, 26 ft., 183,754 lb. reinforcing, etc., to Parks & Speight, Jacksboro, $72,438. Engrs. est. $55,000. Noted Feb. 19.

Tex., Karnes City—Karnes Co., clearing, grubbing, grading and bridging 9.05 mi. State Highway 16, Federal Aid Project 434-D, to H. J. Evans, 500 West 15th St., Austin, $55,176. Engrs. est. $59,824. Noted Apr. 9.

Tex., Orange—Orange Co., grading and shell surfacing 5 mi. road from Prairie View School Rd. to Old River Cave, 2,200 ft. dump and 2,300 ft. trestle work, to A. C. McFarlan, Orange, $77,634. Engrs. est. $80,000. Noted May 7.

Tex., Palestine—Anderson Co., grading, bridging, clearing and grubbing 10.75 mi. State Highway 43, 26 ft., 1,337 cu.yd. concrete, 187,860 lb. reinforcing, 134,306 cu.yd. excav., etc., to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $102,329. Engrs. est. $122,800. Noted Apr. 30.

Tex., Palestine—Anderson Co., clearing, grubbing, grading and bridging 9.75 mi. State Highway 19, Federal Aid Project 403-C, 18 ft., incl. 129,018 lb. reinforcing, etc., to J. W. Goodrum, Sequin, $72,055. Engrs. est. $87,042.

Tex., Sinton—San Patricio Co., grading, bridging and mud shell surfacing 6.38 mi. State Highway 57, Federal Aid Project 377-B, 14,984 cu.yd. mud shell, 28,098 lb. reinforcing, etc., to M. E. Rudy, Blanco City, $66,266. Engrs. est. $75,136. Noted Apr. 9.

Tex., Tyler—Brick paving each side of road from Houston to Dobbs Sts., to McGuire & Cavender, Sherman, $45,068. Engrs. est. $50,000.

Tex., Waco — V. G. Koch, engr., Waco, grading, curbing, etc., 12 various streets, to Standard Paving Co., 1742 East 6th St., Tulsa, Okla., coarse grain asphalt $266,184, or fine grain asphalt $260,577. Will decide soon on which material will be used. Noted Apr. 9.

Oklahoma—State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project, and e. e. means engrs. est.)**, grading and gravel surfacing 5,262 cu.yd. Stigler-Haskell Co. line Rd., F. A. P. 73-B, Haskell Co., to Ellis & Lewis, Muskogee, $19,777, e. e. $25,000, 11,539 cu.yd. Blanchard-McClain Co. Line Rd., S. A. P. 97, McLain Co., to R. R. Tracy, 237 East 15th St., Oklahoma City, $64,499, e. e. $70,000; concrete surfacing 11,461 sq.yd. Tonkawa Rd., S. A. P. 111, Kay Co., to R. H. Baldwin, 109 East Grand St., Ponca City, $24,985, e. e. $26,000, 18,583 sq.yd. Billings Rd., F. A. P. 210-A, Noble Co., and 24,844 sq.yd. Marland Rd., F. A. P. 125-A and B, Noble Co. to Gudgel & McVey, Stillwater, $44,698 and $57,884 respectively, e. e. $49,000 and $60,000 respectively, 9,906 sq.yd. Shawnee-Tecumseh Rd., S. A. P. 77-A, Pottawatomie Co., to G. P. Carr, Shawnee, $23,760, e. e. $25,000; grading 9.93 mi. Adair-Pryor Rd., 30 ft., S. A. P. 158, Mayes Co., to Green-Beekman Constr. Co., 519 West Main St., Oklahoma City, $29,364, e. e. $32,500. Grand total $264,967. Noted Apr. 30.

Okla., Bartlesville—Grading and concrete surfacing 9,640 sq.yd. Cheyenne, Seneca and 7th Sts., to Hamilton Constr. Co., Bartlesville, $29,908. Engrs. est. $30,600. Noted Jan. 29.

Okla., Oklahoma City—To Western Paving Co., Tradesmens Bldg., surfacing 9th St. from Western to Kline Sts. $6,694; asphalt surfacing 1,940 sq.yd. Greary Ave. from 1st to 2nd Sts. $4,973; Willite surfacing Randolph St. from 16th to 19th Sts. $11,090; and gravel surfacing 2,740 sq.yd. 14th St. from Drexel to Independence Sts. $8,950; to M. A. Swatek, Security Bldg., gravel surfacing 2,280 sq.yd. Poplar St. from Oklahoma to Central Sts. $9,489 and concrete surfacing 1,650 sq.yd. Hickory St. from Walker St. 1 block East, $7,680. Grand total $41,926. Noted Feb. 19 and Mar. 5.

Okla., Pawhuska — Grading, curbing and asphalt on concrete surfacing 15,000 sq.yd. Dists. 34 and 35, to Tibbets & Pleasant, 209 North Nogales St., Tulsa, $83,157. Noted Apr. 16.

Okla., Pawhuska—Osage Co., grading and bituminous surfacing 6.75 mi Fairfax-Ponca City Rd., 18 ft., to Tibbetts & Pleasant, 209 North Nogales St., Tulsa. Engrs. est. $99,386. Noted Nov. 20.

Okla., Tulsa—City Clerk, **(e. e. means engrs. est.)** to Standard Paving Co., 1732 3rd St., grading and asphalt surfacing 5,880 sq.yd. 3rd, Young and Cincinnati Sts., $27,417 e. e. $29,340; 8,130 sq.yd. Norfolk and Archer Sts., $40,117 e. e. $42,600; to H. L. Cannady & Co., 1122 South Lewis St., 5,260 sq.yd. Marshall Pl., 10th and Indianapolis Sts. $25,641 e. e. $26,300, 8,440 sq.yd. 11th St., $41,890 e. e. $43,600, 7,140 sq.yd. 2nd, Frisco and Houston Sts., $37,726 e. e. $40,000. Grand total $172,791. Noted Apr. 16.

Okla., Tulsa — Tulsa Co., grading and concrete surfacing 21,120 sq.yd. College Ave., to Highway Constr. Co., 903 1st Natl. Bank Bldg., Tulsa, $59,575, engrs. est. $61,700; 16,390 sq.yd. Howard Street Rd., to Burke-Gibbs Co., Wright Bldg., $41,480, engrs. est. $43,000.

Idaho — P. E. Oxley, dist. engr., 202 Pioneer Bldg., Lewiston, grading and crushed rock surfacing 15.03 mi. North and South Highway between Grangeville and Cottonwood, Federal Aid Project 89-A, Idaho Co., to Payne & Doust, Spokane, Wash., $114,676. Noted Apr. 16.

Nevada—State Hy. Dept., Carson City, improving 19.99 mi. Battle Mountain-East County Line Rd., Federal Aid Project 92-A and B, Lander Co., 89,500 cu.yd. excav., 24,700 cu.yd. load and screen, 51,050 yd. mi. spread gravel, etc., to Maney Bros., Empire Bldg., Oklahoma City, Okla., $74,452. Noted Apr. 16.

Washington—State Rd. Dept., Olympia, to A. Beseloff, 1715 12th Ave., Seattle, improving 2 mi. Olympic Highway, State Rd. 9, Jefferson Co., 41,400 cu.yd. earth excav. at $0.39 per cu.yd., 37,600 cu.yd. loose rock excav. $0.46, 3,300 cu.yd. solid rock excav. $0.80, 3,220 cu.yd. gravel surfacing $1.40, total $57,777; to Triangle Constr. Co., Realty Bldg., Spokane, Asotin-Anatone Highway, Asotin Co., 21,950 cu.yd. earth excav. $0.24, 2,570 cu.yd. loose rock excav. $0.55, 5,450 cu.yd. solid rock excav. $1.20, 6,750 sq.yd. crushed rock surfacing $1.49, total $32,628; to Yakima Paving Co., Perkins Bldg., Tacoma, Olympic Highway State Rd. 9, Mason Co., 2,800 cu.yd. excav. $0.50, 13,320 sq.yd. full width concrete paving $2.12, 18,626 sq.yd. half width concrete paving $2.18, total $88,293; to Forbes & Wilder, Olympia, improving Inland Empire Highway, Whitman Co., 10,350 cu.yd. excav. $0.30, 4,130 cu.yd. subgrade $0.50, 63,330 sq.yd. concrete surfacing $2.08, total $155,688, Inland Empire Highway from Stetoe to Cashup, Whitman Co., 35,980 cu.yd. earth excav. $0.26, 35,827 sq.yd. concrete $2.68, etc., total $116,802. Grand Total $451,188. Noted Apr. 16.

Washington—State Hy. Dept., Olympia, grading, curbing and concrete paving 61,166 sq.yd. Dixie-Coppel Highway, State Rd. 3, Walla Walla Co., to H. G. Johnson, Walla Walla, $160,429; grading, concrete paving, etc. 10,667 sq.yd. State Rd. 3 from Yakima north to Hardy & Richings, Yakima, $54,838. Noted May 7.

Wash., Aberdeen—City Council reinforcing 500 ft. Chehalis River Blvd., to C. R. Wright, Aberdeen, $30,000.

Wash., Davenport—Comrs. Lincoln Co., crushed rock surfacing 11,200 cu.yd. Lincoln Co. Highway, to Mitchell Bros., East 127 Mission St., Spokane, $29,415.

Wash., Seattle—Bd. Pub. Wks., to R. G. Stevenson, 1327 North 34th St., improving 44th St. S. W. et al., 32,475 ft. integral concrete curbing at $0.30 per ft., 650 lin.ft. concrete sidewalks $1.80, 13,000 cu.yd. subgrade $0.50, 51,600 sq.yd. 6 in. concrete paving, etc., $1.58, total $119,146. Engrs. est. $124,032.

Wash., Seattle—Comrs. King Co., grading, concrete paving, etc., 14,623 sq.yd. 10th Ave. N. E., extension of Permanent Highway 28, to Goetz & Brennan, Seaboard Bldg., $36,448, engrs. est. $40,000; grading 41,341 cu. yd. Kirkland-Redmond Rd., incl. 25,517 lbs. reinforcing bars, 50,000 ft. timber for bridge over Sammamish River and undergrade crossing under Northern Pacific R.R. tracks east of Redmond, to Wilburn & Stone, 1100 Fairview Ave., $32,917. Noted Apr. 9.

California—State Hy. Comn., Sacramento, grading 140,000 cu.yd. Joint Highway Dist. 2, San Luis Obispo and Santa Barbara Counties, to C. W. Wimmer, Solvang, $67,302. Noted Apr. 30.

California—State Hy. Comn., Sacramento, **(e. e. means engrs. est.)**, asphalt macadam widening 6.6 mi. highway between San Pablo Creek and El Ciervo, Contra Costa Co., to Kaiser Paving Co., Amer. Bank Bldg., Oakland, $136,499, e. e. $135,058; concrete paving section state highway between San Juan Creek and Galivan, Orange Co., to Jahn & Bressi, Laughlin Bldg., Los Angeles, $160,987, e. e. $186,895; grading and surfacing 6.3 mi. highway between Leggett Valley and 2 mi. north of Black Creek, in Mendocino Co., to Butterfield, Sears Co., San Pedro, $194,772, e. e. $245,057; widening with portland cement and asphaltic concrete 4.4 mi. highway between Cypress Lawn Cemetery and San Bruno, San Mateo Co., to Federal Paving Co., San Francisco, $204,003, e. e. $206,130. Grand total $751,477. Noted Apr. 9 and 16.

Calif., Corona — Improving Merrill St., 7,367 cu.yds. grading, 134,200 sq.ft. oil, 25,086 sq.ft. gutters, 11,975 sq.ft. walks, etc., to Stahlman-Potter Co., Riverside, $30,[illegible].

Calif., Los Angeles—City, **(e. e. means engineer's estimate)**, to Griffith Co., 502 Los Angeles Ry. Bldg., grading, curbing, guttering and paving 1,320 ft. O'Farrell St. $40,331, e. e. $45,800, grading, etc., 800 ft. Mesa St., etc., $3,974, e. e. $4,219, grading, curbing, asphaltic concrete paving 12,480 sq.ft. Cabrillo Ave. $3,765, e. e. $4,241; to G. Oswald, 366 East 58th St., Warrenite bitulithic paving, etc., 60,687 sq.ft. Muirfield Rd. $14,734, e. e. $16,772, to G. R. Curtis Paving Co., 2440 East 26th St., 50,911 sq. yd. Cherokee Ave. $14,785, e. e. $15,688; to Struve & Miller, 927 South Burlington Ave., curbing, sidewalks, etc., on 17,098 sq.ft. Lecouvreur Ave. $5,151, e. e. $5,969; to W. Liddington, 420 East 60th St., curbing and grading 372 cu.yd. alleys west of San Pedro St. $2,907, e. e. $2,954. Grand total $85,647.

Calif., Los Angeles — Concrete paving Sherman Way between Shroup Ave. and west terminus of Sherman Way, to Ingalls & Marks, 39th St. and Western Ave., $64,315; grading and asphalt paving Boyle Ave. between 7th and 9th Sts., to Griffith Co., Railway Bldg., $46,928; grading and concrete paving portion Van Owen St., to Gibbons & Reed, 905 South Olive St., $62,715; asphaltic concrete paving Ascot Ave. between Vernon and 53rd Sts., to G. R. Curtis Co., 2440 East 26th St., $30,905. Grand total $209,863.

Calif., Monterey—City, curbing, guttering and 5 in. macadam paving 400,000 sq.ft. Cypress, Lily Sts., etc., to J. L. Connor, P. O. Box 565, Santa Cruz, $82,025. Noted Apr. 30.

Calif., Richmond—Paving, etc., Florida, Ohio and Center Sts., etc., to Richmond Paving Co., Richmond, $121,132.

Calif., Santa Rosa—Supervs. Sonoma Co. consrtucting Sect. C-Santa Rosa-Guerneville Rd., 465,033 sq.ft. 2 in. Willite asphalt on 3 in. asphaltic concrete paving, 26,300 cu.yd. excav., etc., to A. Teichert & Sons, 1846 37th St., Sacramento, $116,869. Noted Oct. 9.

Calif., Turlock—190,000 sq.ft. grading $0.035 per sq.ft., 155,000 sq.ft. 1½ in. Warrenite bitulithic on 3 in. asphaltic concrete $0,209, etc., to A. Teichert & Sons, 1846 37th St., Sacramento, improving 3rd, 5th, C Sts., etc. Noted Apr. 30.

Calif., Venice—Concrete paving, etc. 38,000 sq.ft. Rialto Court, to J. Tomei, Culver City. $31,276.

Que., Hull — Standardite paving Laurier Ave., St. Laurent, Redemption, and Kent Sts., to Standard Paving Co., Central Chambers, Elgin St., $69,985. Engrs. est. $57,000.

Ontario — Dept. Provincial Highways, Toronto, concrete paving 9 mi. Longwoods Rd. from Melbourne to Strathburn, to Boss & Brazier, World Bldg., London. Engrs. est. $250,000.

B. C., Golden—Minister Pub. Wks., Victoria, grading, etc., 4 mi. Golden-Yoho Park Rd., here, to Cotton Co. Ltd., False Creek Yards, Vancouver, $100,000. Noted Apr. 23.

SEWERS.

Buildings—Industrial

PROPOSED WORK

Pa., Johnstown—PLANT—Cambria Steel Co., E. G. Grace, pres., plans improving plant, incl. 70 coke ovens in Franklin Wks., $2,500,000; also constructing car shop department $500,000.

N. C., Sanford—PLANT—Borden Brock & Tile Co., c/o Chamber of Commerce, plans plant, with 150 tons capacity hollow tile per day. $200,000.

N. C., Wendell—MILL—Local Citizens raised $250,000 and plan 15,000 spindle cotton mill. R. B. Whittley, M. C. Todd and R. E. Richardson, all of Wendell, are interested.

Ala., Sheffield—PLANT—J. R. Scott, and associates, 616 East Gate Ave., St. Louis, Mo., recently organized at Sheffield the Colbert Lime Rock Asphalt Co., and plans large lime rock asphalt plant, in Colbert Co., near here. $100,000.

La., New Orleans—PLANT—Louisiana-Mississippi Co-operative Milk Producers Assn., I. S. West, secy., 326 Baronne St., plans new unit to distributing plant, $300,000.

Buildings—Industrial (Continued)

000 incl. equipment. Engineer and architect not selected.

La., Ruston—PLANT—Cooke & Reynolds, owners of Lincoln Ice & Cold Storage Co., plans rebuilding plant recently destroyed by fire. $60,000.

Tenn., Humbolt — POWER PLANT — Voted $75,000 bonds for improving power plant and paving various streets.

O., Cleveland—FACTORY—Morreau Co., H. A. Kelly, secy., 1303 Oregon Ave., plans rebuilding 3 story, brick and steel factory, 1303 Oregon Ave. $40,000. Engineer and architect not selected.

O., Cleveland—FACTORY—Mueller Electric Co., c/o R. S. Mueller, 1583 East 31st St., had plans prepared by G. S. Rider & Co., Century Bldg., 1 story, brick and steel top addition. $40,000.

O., Cleveland — FACTORY — Parr Paint & Color Co., 665 East 103rd St., had plans prepared by A. C. Bishop & Co., Guardian Bldg., 3 story and basement, 40 x 80 ft., brick and steel, Syracuse Ave. $50,000.

O., Cleveland — FACTORY — Sabin Machine Co., H. B. Sabin, pres., 6536 Carnegie Ave., 3 story and basement, 45 x 90 ft., brick and steel addition, to J. Grant & Son, 4500 Euclid Ave. Archts. est. $50,000. Noted Apr. 16.

O., New Philadelphia — MILL — Canton Bridge Co., Belden and 10th St., N. E. plans fabricating mill here. G. C. Hines, pres.

Mich., Bellaire — POWER HOUSE — Plans hydraulic power house wasteway, highway bridge, etc. Ayers, Lewis, Norris & May, Cornwall Bldg., Ann Arbor, engrs.

Mich., Detroit—FREIGHT TERMINAL—Detroit Ry. & Harbor Terminals Co., Buhl Bldg., having plans prepared by A. Kahn, 1000 Marquette Bldg., 8 story, 180 x 650 ft., rein.-con. terminal warehouse, dock, cold storage plant, power plant, etc., West Jefferson Ave. $4,500,000.

Ill., Chicago — FACTORY — Beardsly & Piper Co., 2541 North Keeler Ave., plans 2 story, 290 x 300 ft., concrete and brick, plain foundation, 2541 North Healy St. $100,000.

Ill., Chicago—FACTORY—Galand Upholstering Co., 1244 North Clark St., having plans prepared by Halperin & Braun, 19 South La Salle St., 3 story, 50 x 125 ft., rein.-con. and brick, plain foundation, 226 Schiller St. $60,000.

Wis., Alma Center—CREAMERY—Alma Center Creamery Co., having plans prepared by Small & Flad, Ellsworth Bldg., Madison, 1 story, 60 x 66 ft., brick and rein.-con., plain foundation. $40,000.

Wis., Burkhardt — HYDRO-ELECTRIC POWER PLANT—See "Dams."

Wis., Marshfield—PLANTS—Felker Bros. Mfg. Co., plans 2 story, brick manufacturing plant. Engineer and architect not selected.

Wis., Park Falls—SAW MILL—Park Falls Lumber Co. owned by E. Hines Lumber Co., 2431 South Lincoln St., Chicago, Ill., plans rebuilding saw mill recently destroyed by fire. $200,000 loss. Engineer and architect not selected.

Neb., Bloomfield—PLANT—Election May 26, $50,000 bonds electric light plant and distribution system.

Mo., Kansas City—FACTORY—Liberty Garment Co., A. B. Passman, 412 West 8th St., pres., having preliminary plans prepared by S. B. Tarbet, 507 Continental Bldg., 4 story and basement, 100 x 120 ft., brick, plain foundation, Bway. Approximately $100,000.

Mo., Kennett—PLANT—A. B. Smith Lumber Co. plans rebuilding lumber plant, recently destroyed by fire. $225,000.

Mo., St. Joseph—PLANT, GARAGE, etc. Marland Refining Co., Ponca City, R. J. Brown, local mgr., having preliminary plans prepared and takes bids about June 1, barreling plant, garage, etc. $100,000. Private plans.

Mo., St. Louis—SLAUGHTER HOUSE—Laclede Packing Co., 2025 Shenandoah Ave., having preliminary plans prepared by Koerner Eng. Co., archts. and engrs., Syndicate Trust Bldg., 1 story, 18 x 36 ft., rein.-con., 2238 McNair Ave.

Tex., Dallas—PLOW FACTORY—Atlanta Plow Factory, 1200 Metta, C. L. King, pres., plans plow factory. $1,000,000. Engineer and architect not selected.

Tex., Wellington—POWER PLANT—C. B. Meyers, Oklahoma City, Okla., plans power plant and equipment, here, $60,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, Okla., engrs.

Tex., Whitesboro — COTTON GIN — Stewart & Plemons plan 5 stand 80 saw type cotton gin. $40,000. Engineer and architect not announced.

Okla., Hinton — PLANT — Election soon $30,000 bonds, improving electric light plant. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

RE-LOCATION OF RAILROAD—WANAQUE, N. J.

Following are lowest three bids opened by North Jersey District Water Supply Comn., May 7, for re-location of the Erie R.R., (A) Winston & Co., 342 Madison Ave., New York City; (B) Wilson & English, 50 Church St., New York City; (C) Parker & Graham. The unit bids are as follows:

	A	B	C
85,000 cu.yd. earth excavation	$0.65	$1.00	$0.95
70,000 cu.yd. rock excavation	1.50	2.70	2.00
520,000 cu.yd. earth borrow	.50	.55	.575
90,000 cu.yd. riprap	1.20	.60	1.20
500 cu.yd. surfacing	2.50	2.00	2.00
9,000 cu.yd. concrete	12.00	9.00	12.00
2,500 cu.yd. reinforced-concrete	18.00	18.00	18.00
1,000 cu.yd. paving	7.00	3.00	6.50
1,000 cu.yd. sand and gravel	2.50	3.00	1.50
7,000 sq.yd. gravel surfacing	1.00	1.00	1.25
16,000 bbl. cement	2.90	2.75	3.00
20 tons structural steel	200.00	120.00	175.00
100,000 lb. reinforcing steel	.06	.06	.06
3,000 ft. 6-in. steel pipe	1.00	1.00	1.50
16,000 lb. cast iron and wrought iron	.08	.125	.10
150,000 ft. timber	140.00	140.00	95.00
50,000 ft. placing timber	60.00	60.00	30.00
Raising bridge (lump sum)	8,000.00	5,000.00	6,000.00
60 tons erecting steel	110.00	40.00	.70
Extended totals	$797,680	$842,800	$888,050

Okla., Tulsa — FACTORY — Wisconsin Acid Co., c/o Chamber of Commerce, Tulsa, making preliminary plans 2 story acid plant, West Tulsa St. $350,000. Engineer and architect not selected.

Ore., West Linn — MILL — Crown Willamette Paper Co., Pittoch Bldg., Portland, 4 story, 100 x 100 ft., rein.-con., solid rock and concrete foundation, Willamette River, to A. Guthrie & Co., Sherlock Bldg., Portland. Archts. est. $200,000.

Calif., Los Angeles—FACTORY—Angeles Shoe Polish Co., 227 East 6th St., having plans prepared by Morgan, Walls & Clements, Van Nuys Bldg., 4 story, 50 x 150 ft., rein.-con., Wall St.

Calif., Merced — FACTORY — Merced Tomato Products Co. had plans prepared by Moran Co., Room 6, Kerckhoff Bldg., Los Angeles, 2 story, 80 x 100 ft., rein.-con. and timber canning factory. $75,000.

Calif., San Diego—WAREHOUSE, etc.—Crane Co., 345 4th St., purchased 100 x 300 ft. site and plans fireproof branch warehouse and sales room, India St. between B and C Sts.

Calif., San Francisco—FACTORY—Phila. Storage Battery Co., 37 Spear St. ,having plans prepared by Ashley & Evers, 58 Sutter St., 2 story, 60 x 150 ft., brick and concrete, Fremont St. $45,000.

Calif., San Francisco — FACTORY — Pacific Box Factory, Beach and Taylor Sts., plans rebuilding factory, recently destroyed by fire. To exceed $100,000.

B. C., Burnaby—REFINERY—Union Oil Co. of California, c/o R. J. Kenmuir, agt., 402 Pender St. W., Vancouver, purchased 45 acres land for new oil refinery, on Burrard Inlet, here.

BIDS DESIRED

Mass., Brighton (Boston P. O.)—PLANT—Electric Storage Battery Co. ,720 Beacon St., Boston, taking bids 1 and 2 story, 135 x 274 ft., brick and stone plant, storage battery station and office building, plain foundation, Ashford St., here. To exceed $100,000. Bigelow & Wadsworth, 3 Hamilton Pl., Boston, archts.

Mass., Cambridge (Boston P. O.)—FACTORY — Cambridge Rubber Co., 748 Main St., taking bids 4 story, 80 x 100 ft., rein.-con. and brick, Main and Windsor Sts. $125,000. J. R. Worcester Co., 79 Milk St. Boston, engrs. Noted Apr. 2.

Mass., Medford (Boston P. O.)—REPAIR and SERVICE GARAGE—Boston Elevated Ry. Co., Park Sq., Boston, taking bids 1 story, 112 x 120 ft., brick and steel, Salem St. $120,000. Private plans. Noted Apr. 16.

Mass., Newtonville (Boston P. O.)—REPAIR and SERVICE GARAGE—A. C. Stuart Co., c/o L. Mambersger, Winter St., Boston, taking bids 1 story, 146 x 150 ft., brick repair and service garage. Private plans.

Ill., Chicago — PLANT — B. B. Kurzon, archt., 30 West Dearborn St., taking bids 1 story, 79 x 150 ft., brick and stone, plain foundation, 1339 East 63rd St., for Michigan Cleaners & Dyers, 3511 South Halstead St. $90,000.

Wis., Superior—BAKERY—June 10, by H. Zinsmaster, Mgr., Zinsmaster Bread Co., 283 West 1st St., Duluth, Minn., 2 story, 75 x 100 ft., brick and concrete, concrete pile foundation, Ogden and Winter Sts., here. $100,000. Private plans.

Minn., Duluth—PLANT—June 1, Universal Portland Cement Co., Morgan Park, R. S. Huey, supt., additions, incl. steel stack, 18 ft. wide, 300 ft. high for cement plant, Morgan Park. $250,000. D. W. Coy, 1417 Morse Ave., Chicago, Ill., engr. and archt.

Calif., Sacramento—WAREHOUSE and OFFICE—R. A. Herold, archt., Forum Bldg., taking bids 2 story, brick and concrete, 22nd and R Sts., for G. H. Tay, 165 8th St., San Francisco. $100,000. Noted Apr. 9.

Que., St. Jerome—POWER HOUSE—W. E. H. Dyer, engr., Land Title Bldg., Phila., Pa., taking bids 1 story, 26 x 46 ft., brick and steel power house, 6 x 125 ft. brick chimney, one 506 hp. Babcock & Wilcox boiler, here, for Regent Knitting Mills, St. Jerome.

CONTRACTS AWARDED

Me., Waterville—REPAIR SHOP—Maine Central R.R., 222 St. John St., Portland, 1 story, 100 x 109 ft., brick and steel, here, to H. Purinton Co., 65 Temple St. Archt. est. $40,000. Noted May 7.

Mass., Reading — PLANT — Dennison Organ Pipe Co., D. F. Dennison, pres., 1 story, 40 x 110 x 30 x 40 ft. plant, to Austin Co., 120 Bway., New York City.

N. Y., Mineola—PLANT—International Motors Co., 25 Bway., New York City, 2 story, rein.-con. and steel assembly plant, plain foundation, Jericho Turnpike, here, to P. Krug, Mineola. Engrs. est. $55,000.

N. Y., Schenectady—PLANT—Amer. Locomotive Co., 30 Church St., New York City, 1 story, rein.-con., brick and steel, plain foundation, to Browne & Lowe Co., 16 Foster Ave. Archts. est. $135,000.

Pa., Pittsburgh — FACTORY — W. E. Moore Co., 32nd and Putney Sts., general contract 1 story, 100 x 200 ft. manufacturing building, to W. W. Kratzer Co., 3412 Smallman St.

Pa., Pittsburgh—SHOP—Standard Sanitary Mfg. Co., Bessemer Bldg., general contract 5 story and basement warehouse and pipe shop, Manchester Blvd. and South Ave., to J. F. Love Co., Arrott Bldg.

O., Cleveland—FACTORY, etc.—Elyria Iron & Steel Co., H. B. Wick, pres., 232 East 131st St., Cleveland, two 1 story, 42 x 60 ft., and 160 x 160 ft., brick, steel and concrete factory additions, 1 story, 70 x 100 ft. garage, and 40 x 50 ft. storage and boiler house, to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $200,000. Noted Mar. 5.

O., Cleveland—PLANT—Herald Publishing Co., 2380 West 7th St., 3 story, 40 x 50 ft., brick and steel addition, to J. G. Woide, 1659 East 86th St. Archts. est. $40,000. Noted Apr. 30.

O., Cleveland — SUB-STATION — Cleveland Electric Illuminating Co., c/o J. Wolf, Illuminating Bldg., 1 story, 37 x 78 ft., brick, steel and concrete, 3531 East 142nd St., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $60,000.

Mich., Ontonagon — MILL — Ontonagon Fibre Co., D. Everst, pres., 601 McIndoe St., Wausau, Wis., 3 story, 77 x 140 ft., concrete and brick addition, plain foundation, here, to W. F. Milford, Calumet.

Mich., Pontiac — PLANT — Fisher Body Corp., 2 story, 126 x 154 ft., rein.-con. and brick addition, Baldwin Ave., to Utley Constr. Co., Pontiac, about $175,000.

Ill., Granite City — PLANT — Massey Bros. Dairy Co., 20th and I Sts., 1 and 2 story, 61 x 120 ft., rein.-con. and brick, 20th and Madison Sts., to S. M. Wilson, 1925 State St., Granite City. Archts. est. $60,000. Noted Feb. 26.

Wis., Kewaunee—FACTORY—Kewaunee Mfg. Co. will build 3 story, 52 x 140 ft., brick and timber factory, plain foundation, by day labor. Private plans.

Wis., Madison—PLANT—French Battery Co., 2317 Winnebago St., 1 story, 106 x 302 ft., brick, rein.-con. and steel, plain foundation, to G. Nelson, 1117 West Johnson St. Archts. est. $40,000. Noted Apr. 30.

Wis., Madison—PLANT—J. R. and E. J. Law, archts., 1st Central Bldg., 2 story, 60 x 88 ft., brick, concrete and steel print-

Buildings—Industrial (Continued)

ing plant, to J. H. Findorff & Son, 601 West Wilson St., for State Journal Printing Co., 115 South Carroll St. Engrs. est. $40,000. Noted May 7.

Wis., Racine—FACTORY—Andis Clipper Co., 417 Lake Ave., 2 story, 116 x 120 ft., brick and steel factory, plain foundation, to A. C. Kappel, 526 Wisconsin St. Archts. est. $45,000.

Wis., Wausau—MACHINE SHOP, etc.—E. Helmke, 802 South 8th Ave., will build 1 story, brick and steel machine shop and foundry, 12th Ave., by day labor. $40,000. Private plans.

Mo., St. Louis — FACTORY — Multiplex Faucet Co., 2126 Cass Ave., 2 story and basement, 80 x 160 ft., brick and concrete, Duncan Ave., to L. A. O'Keefe, 2122 Pine St. Archts. est. $75,000. Noted May 14.

Mo., St. Louis—FACTORY—Johnson, Stephens & Shinkle Shoe Co., 4242 Laclede Ave., 2 story and basement, 50 x 182 ft., rein.-con. and brick, Forest Park Blvd., to T. J. Manahan, 4127 Gratiot St. Archts. est. $100,000.

Mo., St. Louis—LAUNDRY—Atlas Laundry Co., 2713 Park Ave., 1 story and basement, 88 x 96 ft., brick and concrete addition, 2713-19 Park Ave., to Neier & Meng, 1039 Marion St.

Ark., Fayetteville—FACTORY—Phillips Box Co., 20 East Center St., will build concrete and brick addition, incl. power equipment, East Center St., by day labor. Private plans. $75,000.

Calif., Los Angeles—REPAIR SHOP and GARAGE—Western Auto Supply Co., 517 East 7th St., for five 1 story, brick repair shop and garage quarters, 7th St., to J. M. Cooper, Van Nuys Bldg., $55,000.

Calif., Patterson—CREAMERY—Mutual Creamery Co., 180 x 245 ft. creamery, brick, to W. Knutson, Patterson, approximately $55,000.

Calif., Wasco — SHOPS — Wasco High School Dist., manual training shops, to F. H. Dequine, Shafter, approximately $45,250.

Ont., Windsor — FACTORY — Sterling Products Co., 937 Elliott St., constructing factory, to Strain & Emery, Dowler Bldg. Archts. est. $150,000.

Buildings—Commercial

PROPOSED WORK

Mass., Attleboro—STORE and CLUB—Lodge of Elks, having plans prepared by O'Malley Fitzsimmons Co., Fanning Bldg., Pawtucket, R. I., 3 story and basement, 85 x 147 ft., brick and limestone. $150,000.

Mass., Boston — APARTMENT — E. N. Wyner, 18 Tremont St., plans 10 story and basement, 15,000 sq.ft. floor space, brick and stone, Newbury and Arlington Sts. $2,000,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.) — APARTMENT HOTEL—E. N. Wyner, 18 Tremont St., Boston, having revised plans prepared by G. N. Jacobs, 4 Park St., Boston, Hotel Roosevelt, 10 story and basement, brick, steel and limestone, plain foundation, Harvard Sq., here. $1,000,000.

Mass., Cambridge (Boston P. O.) — DORMITORY — Harvard University, A. L. Lawrence, pres., having plans prepared by Coolidge, Shepley, Bulfinesh & Abbott, Ames Bldg., Boston, Strauss Dormitory, 4 story and basement, brick and stone, plain foundation. To exceed $150,000.

Mass., Worcester—HOSPITAL—Memorial Hospital, Belmont St., raising funds to exceed $150,000 and having sketches made 4 story and basement nurses' home and 1 story hospital addition, brick. Fuller & Delano Co., 44 Front St., archts. Kendall Taylor & Co., 142 Berkley St., Boston, consult. archts.

N. Y., Creedmoor (Jamaica P. O.)—HOSPITAL — State Hospital Comn., Albany, takes bids about June 1, one employees, two hospital, one cold storage and one administration buildings, also nurses home, here, for Brooklyn State Hospital. S. W. Jones, Albany, state archt.

N. Y., New York—APARTMENT HOTEL—J. Goldstein and I. Teitelbaum, c/o G. F. Pelham, archt. and engr., 200 West 72nd St., having plans prepared 15 story, 75 x 105 ft., brick, steel and stone, plain foundation, 242 West 76th St. $2,000,000.

N. Y., New York — CLUBHOUSE — New York Athletic Club, 58 West 59th St., purchased site and plans 15 story clubhouse, swimming pool, etc., 7th Ave. from 58th to 59th Sts., $4,000,000. Engineer and architect not selected.

N. Y., New York—HOTEL—Hotel Bellclaire, 77th St. and Bway., having plans prepared by L. A. Abramson, archt. and engr., 48 West 46th St., altering 10 story, brick, steel and stone, plain foundation, 77th St. and Bway. $200,000.

N. Y., New York—SALES and SERVICE—E. Roth, archt. and engr., 119 West 40th St., having plans prepared 4 story, 100 x 300 ft., brick, steel and stone, plain foundation, 17 East 102nd St. $250,000. Owner's name withheld.

N. Y., Rome — DORMITORIES — State Hospital Comn., Albany, takes bids about June 1, two 3 story, 60 x 200 ft. dormitories, for State School of Mental Defection, here. S. W. Jones, state archt.

N. J., Atlantic City — HOTEL — N. J. Collins, c/o Ritter & Shay, archts., Packard Bldg., Phila., Pa., having sketches made Pennsylvania Hotel, Pennsylvania Ave and Boardwalk, here.

N. J., Atlantic City—HOTEL—Atlantic & Brigantine Hotel & Pier Co., c/o MacLanahan & Benckert, archts., Bellevue Court Bldg., Phila., Pa., plans hotel, here.

N. J., Jersey City—POLICE STATION—Bd. City Comrs., City Hall, soon takes bids 2 story, brick, steel and stone, plain foundation. $500,000. C. H. Ziegler, 75 Montgomery St., engr. and archt.

N. J., Newark—OFFICE—Lincoln Building Corp., c/o F. Grad, archt. and engr., Broad St., having plans prepared 12 story, brick, steel and stone, plain foundation, Broad St. $1,000,000.

Pa., Charleroi — BANK — Hopkins & Dentz, archts., 415 Lexington Ave., New York City, soon lets contract 1 story basement and mezzanine, 64 x 120 ft., brick and steel, plain foundation, for Bank of Charleroi Trust Co. $150,000.

Pa., Phila.—HOTEL, CLUB and OFFICE—Emergency Aid of Phila., J. W. Martin, acting chn., 21 Walnut St., having plans prepared by A. L. Hermon, 3 West 29th St., New York City, 14 story and basement, 54 x 85 ft., brick and steel, plain foundation, 20th and Samson Sts. $850,000. Noted May 14.

Pa., Phila. — WAREHOUSE — W. E. S. Dyer, engr., Land Title Bldg., soon lets contract 7 story and basement, 36 x 63 ft., brick and steel, plain foundation, for A. S. Datz & Son, Marshall St., near Market St.

Md., Baltimore—APARTMENT—Arcadia Building Corp., c/o F. J. and J. H. Thuman, archts., 803 Park Ave., postponed till the fall, construction 4 story apartment, Harford Rd. and Parkside Dr. $150,000. Noted Mar. 12.

Md., Baltimore—OFFICE and STORE—Mutual Life Insurance Co., 15 South St., having plans prepared by Parker, Thomas & Rice, Union Trust Bldg., 6 story and basement, 75 x 175 ft., brick and steel, plain foundation, Charles and Chase Sts. $300,000.

W., Va., Buckhannon — HOTEL — Buckhannon Hotel Co., having plans prepared by Holmboe & Poque, Clarksburg, 5 story and basement, 60 x 134 ft., brick and steel hotel. $200,000.

Ga., Augusta—HOTEL—Bon Air-Vanderbilt Hotel, A. E. Martin, mgr., plans hotel, incl. medicated baths, swimming pool, etc. $200,000.

Fla., Avon Park—HOTEL—Avon Investment Co. having plans prepared by W. Heim, 3 story, 120 x 220 ft., brick hotel, Main St. $250,000.

Fla., Bradentown—HOSPITAL—Larrabee Hospital, Inc., having plans prepared by A. C. Price, brick hospital. $150,000.

Fla., Clearwater—HOTEL—Lloyd, White & Skinner Co. having plans prepared by R. E. Smallwood, Clearwater, for Beach Island Hotel. $700,000.

Fla., Ft. Lauderdale — COURT HOUSE and JAIL—Broward Co. election May 19, $500,000 bonds, for court house and jail. F. A. Bryan, co. clk.

Fla., Ft. Lauderdale—HOTEL—G. F. Croissant and associates, purchased site and plan Croissantinia hotel. $300,000.

Fla., Jacksonville — OFFICE — Title & Trust Co., Realty Bldg., plans office building, Newman and East Forsyth Sts. $750,000. H. C. Mann, pres.

Fla., Ocala — HOTEL — Hackenbury System, Inc., 300 North 3rd St., plans hotel. $500,000.

Fla., St. Petersburg—HOTEL and STORE—H. H. Love having plans prepared by Leitner & Talley, 2nd Ave. and 2nd St. S., 2 story, steel, 2nd St. and 2nd Ave. S. $400,000.

Fla., Titusville — HOTEL — Titusville Hotel Corp. having plans prepared by L. King, Orlando, 7 story, 70 x 150 ft. hotel, Washington and Pine St.

La., Shreveport—EXCHANGE—Cumberland Telephone & Telegraph Co., F. Colvert, dist. mgr., having revised plans prepared by Mayre, Alger & Alger, 801 Walton Bldg., Atlanta, Ga., 4 story, rein.-con. and brick, McNeil and Crockett Sts. $400,000.

Tenn., Memphis—STORES, etc.—A. G. Hodgson, Waukegan, Wis., c/o Wh[illegible] & Co., 25 South 2nd St., having tentative plans prepared 4 story building, Madison St. near 3rd St. $250,000.

Ky., Louisville—OFFICE—F. G. Bro[illegible], 32nd and Market Sts., plans 14 story and basement, 95 x 180 ft., rein.-con. and brick, Bway. and 3rd Sts. $2,500,000.

O., Athens — CITY HALL — Defeated $165,000 bonds for city hall to include auditorium. Noted Mar. 5.

O., Canton — GARAGE — Peerless Auto Sales Co., 421 Cleveland Ave. N. W., plans 2 story and basement, 100 x 150 ft., Walnut and 3rd Sts. $150,000.

O., Cleveland — COMMERCIAL and MARKET HOUSE — Collinwood Market House, c/o W. S. Watts, archt., 4417 Woburn Ave., had plans prepared 1 story, 90 x 220 ft., brick, steel and concrete, East 156th St. and Waterloo Rd. $150,000.

O., Cleveland — COMMERCIAL and APARTMENT—R. A. Boccia, 3471 Rocky River Dr., had plans prepared by H. W. Grieme, Engineers Bldg., 3 story and basement, 82 x 142 ft., brick and timber, West 100th St. and Denison Ave. $150,000.

O., Cleveland — COMMERCIAL—Huron-Ninth-Prospect Co., c/o J. F. Steffens, archt., Fidelity Mortgage Bldg., soon lets contract 3 story and basement, 61 x 196 ft., brick, steel and concrete, East 9th St. and Huron Rd. $300,000. Noted Sept. 11.

O., Cleveland Heights (Warrensville P. O.) — APARTMENT — H. Caplan, 3459 East 123rd St., Cleveland, having prepared by A. F. Janowitz, 811 Prospect Ave., Cleveland, 3 story and basement, 96 x 103 ft., brick and timber, Hampshire and Coventry Rds., here. $150,000.

O., Columbus — BANK and OFFICE — Ohio State Savings Assn., Outlook Bldg., East Broad St., having plans prepared by Simons, Brittain & English, Pembroke Bldg., 8 or 12 story and basement, 42 x 118 x 125 ft., rein.-con. and brick, 3rd and Gay Sts. $400,000.

O., Lima—BANK and OFFICE—Lima Trust Co., Market and Public Sq., plans 10 story and basement, brick, steel and concrete bank and office building. $1,000,000.

O., Ravenna — MASONIC TEMPLE — Ravenna Masons plan 3 story and basement, 50 x 100 ft., brick, steel and concrete, Walnut St. $150,000.

O., Youngstown — DEPOT — New York Central R.R., c/o G. C. Cleveland, West 3rd St. and St. Clair Ave., Cleveland, having plans prepared by Fellheimer & Wagner, 7 East 42nd St., New York City, 1 and 2 story, brick, steel and concrete. $200,000.

Ill., Chicago—APARTMENT—Rosenberg & Newhouse, 4623 Drexel Ave., having plans prepared by Newhouse & Bernheim, 4623 Drexel Ave., 3 story and basement, 180 x 480 ft., brick and stone, plain foundation, South Shore Dr. $400,000.

Ill., Chicago—APARTMENT HOTEL—H. LaBade, 118 West La Salle St., having sketches made by W. H. Pruyn, Jr., 122 South Michigan Ave., 3 story and basement, 120 x 230 ft., brick and stone, plain foundation, 46th and Woodlawn Sts. $300,000.

Ill., Chicago — BANK — Western Natl. Bank, J. B. Gottle, pres., c/o H. E. Stevens, archt., 4022 West Madison St., having plans prepared 4 story and basement, 32 x 112 ft., rein.-con., brick and terra cotta, 220 West 63rd St. $200,000.

Ill., Chicago—LODGE and STORE—Independent Order of Vikings, c/o O. G. Nelson, 727 Maple St., Blue Island, having plans prepared by Lindbald & Carlson, 155 North Clark St., 3 story and basement, 100 x 125 ft., brick and stone, plain foundation, 6900 Emerald St. $250,000.

Ill., Chicago—STORE and LODGE—I. O. O. Scithold Lodge, c/o Michaelson & Rognstad, archts., 3815 West Congress St., plans 4 story and basement, 75 x 144 ft., brick and stone, plain foundation, Racine and Clark Sts. $200,000.

Ill., Chicago—STORE and OFFICE—City Furniture Co., 6160 South Halsted St., having plans prepared by A. Epstein, engr. and archt., 2001 West Pershing Rd., 4 story and basement, 125 x 125 ft., rein.-con., brick and terra cotta, plain foundation, 6300 South Green St. $500,000.

Ill., Moline — HOSPITAL — Evangelical Lutheran Augustana Synod Hospital, E. Dahlgren, R. N., supt., having preliminary plans prepared by Cervin & Horn, Rock Island, fireproof hospital addition, 5th Ave. and 5th St. $350,000 up.

Buildings—Commercial (Continued)

Wis., Madison — THEATRE — Beecroft Building Co., 6 West Miffin St., having plans prepared by C. W. and G. L. Rapp, 190 North State St., Chicago, Ill., 125 x 130 ft., concrete, stone and terra cotta, concrete pile foundation, State St. $750,000. Noted Apr. 23.

Wis., Merrill — HOSPITAL — Sisters of Holy Cross, M. Regli, in charge, and Parkinson & Dockendorff, archts., Linker Bldg., La Crosse, soon take bids 3 story and basement, 52 x 150 ft., brick and concrete, plain foundation. $150,000. Noted Sept. 4.

Wis., Milwaukee—APARTMENT—S. Ettenheim & Sons, 209 Grand Ave., plan 3 story and basement, brick and concrete addition, Kane Pl. $150,000. Engineer and architect not selected.

Wis., Milwaukee — BUSINESS — J. B. Olinger, 194 3rd St., having preliminary plans prepared by Leiser & Holst, 105 Wells St., 9 story and basement, brick and concrete, plain foundation, 3rd St., and top addition to adjoining building. $350,000.

Wis., Milwaukee — HOTEL — F. A. Schaetzke, 1385 Lake Dr., having plans prepared by C. J. Keller & Son, 432 Bway., 4 or 6 story and basement, 67 x 90 ft., and 47 x 85 ft., brick and rein-con., plain foundation, State St. $300,000.

Wis., Milwaukee — THEATRE — A. H. Kienappel, archt., 445 Milwaukee St., made plans and soon takes bids 2 story and basement, 60 x 120 ft. and 62 x 90 ft., rein.-con. and brick, plain foundation, 8th Ave., for A. H. Bartlett, 1350 8th Ave. $150,000.

Ia., Cedar Rapids — MEMORIAL — Election in June $800,000 bonds, for 3 story and basement, 160 x 270 ft., rein.-con., brick and stone veterans hospital. L. E. Storey, city clk. Noted Mar. 19.

Minn., Minneapolis — TEMPLE — Minneapolis Labor Temple Assn., c/o J. W. Simcoe, 1100 24th Ave. N., having plans prepared by Croft & Boerner, 1004 Marquette Ave., 3 story and basement, rein.-con. and brick, 7th St. and 4th Ave. $300,000.

Minn., St. Paul — HOSPITAL and NURSES HOME — St. Paul Hospital Lutheran Society, J. E. Haugan, pres., having plans prepared by S. Jacobson, 403 Endicott Bldg., 5 story and basement, 140 x 210 ft., rein.-con., brick and stone, Robert St. and University Ave. $300,000.

Kan., Ft. Scott — OFFICE — Western Automobile Co., takes bids about July 15, 5 story and basement, 75 x 120 ft., rein.-con. and terra cotta office building. $200,000. Holt, Price & Barnes, 800 Davidson Bldg., Kansas City, archts. Noted Apr. 30.

Kan., Winfield—CITY HALL and AUDITORIUM—Defeated $175,000 bonds for city hall and auditorium. Noted Apr. 30.

Neb., Grand Island—APARTMENT—W. Boyll, having plans prepared by C. J. Bowell, Dolan Bldg., 3 story and basement, 70 x 112 ft., rein.-con. apartment. $150,000.

Neb., Grand Island—TEMPLE—Masonic Temple Assn., c/o V. McCracken, having plans prepared by Kirschke & Baker, Ryan Bldg., 7 story and basement, 53 x 84 ft., brick and rein.-con. temple. $150,000.

Neb., McCook — STATION and HEADQUARTERS—Chicago, Burlington & Quincy R.R. Co., 547 West Jackson Blvd., Chicago, Ill., plans railroad station and headquarters, here. $200,000. A. W. Newton, ch. engr.

Mo., Clayton—COURT HOUSE—St. Louis Co. defeated $715,000 bonds for 2 story and basement courthouse. Klipstein & Rathman, Chemical Bldg., St. Louis, archts. Noted Apr. 2.

Mo., Kansas City—APARTMENT HOTEL—J. A. Horigan, 216 Merchants Bank Bldg., having plans prepared by J. O. Hogg, 100 Walsix Bldg., 8 story and basement, 60 x 140 ft., rein.-con., plain foundation, 31st St. near Main St. $250,000.

Mo., Kansas City — DANCE HALL and GARAGE — G. H. Siedhoff, Broadview Hotel, Wichita, Kan., having plans prepared by Shephard & Wiser, 1208 R. A. Long Bldg., 3 story and basement, 108 x 157 ft., rein.-con., brick and terra cotta dance hall and garage, here.

Mo., Kansas City—HOTEL—B. Goodman of Quality Builders, Inc., Commerce Bldg., having plans prepared by N. E. Peters, 2820 Harrison St., 9 story and basement, 76 x 140 ft., brick, plain foundation, 1205 Bway. $750,000.

Mo., Kansas City — OFFICE — DeVere Dierks et al, Gates Bldg., having plans prepared by Holt, Price & Barnes, 800 Davidson Bldg., 5 to 10 story, 98 x 115.5 ft., steel top addition, 10th St. and Grand Blvd. $325,000-$650,000.

Mo., Kansas City—STORE, etc.—R. Keith Furniture & Carpet Co., R. Keith, pres., 1101 Grand Ave., having plans prepared by Holt, Price & Barnes, 800 Davidson Bldg., 8 story and basement, 100 x 107 ft., rein.-con., brick and stone, plain foundation, 13th and Baltimore Sts. $400,000 or more.

Mo., St. Louis—CLUB—St. Louis Club, c/o W. F. Carter, chn. Boatmens Bank Bldg., soon takes bids 6 story and basement, 200 x 216 ft., rein.-con., brick and Bedford stone clubhouse incl. swimming pool, etc., Kingshighway at Maryland St. Mauran, Russell & Crowell, Chemical Bldg., archts.

Mo., St. Louis — STORE, etc. — Stocke-Peterman Furniture Co., 2719 North 14th St., had plans prepared by McMahon & Boulicault, 817 Buder Bldg., and soon takes bids 4 story and basement, 75 x 120 ft., rein.-con., brick and stone, Union St. and Natural Bridge Ave. $175,000. Noted Oct. 9.

Mo., St. Louis—EXCHANGE—Southern Bell Telephone Co., Bway. and Locust Sts., plans 3 story and basement, 90 x 149 ft., brick, concrete and stone, Washington St. and Spring Ave. $250,000. Private plans.

Mo., St. Louis—THEATRE and APARTMENT—A. Laventhal Realty Co., 5307 Waterman Ave., having revised plans prepared by Wedmeyer & Nelson, Wainwright Bldg., and takes bids in June, 2 story and basement, 106 x 123 ft., rein.-con., brick, stone and terra cotta, Union Blvd. and Northland Ave. $350,000. Noted Jan. 15.

Tex., Denton—HOTEL—R. B. Pender had preliminary plans prepared by H. L. Spicer, 1614 Amicable Bldg., Waco, 6 story and part basement, 42 x 120 ft., and 36 x 65 ft. hotel, South Locust and East Mulberry Sts. $200,000. Noted Apr. 2.

Tex., Ft. Worth—HOSPITAL—All Saints Hospital, c/o D. Wosley 52 Jennings Ave., soon takes bids 3 story, rein.-con., brick and stone annex, 8th and Magnolia Ave. $150,000. Berlin & Severn, 19 South La Salle St., Chicago, Ill., archts. Glasgow & Longley, 311 1st Natl. Bank Bldg., super. archts.

Tex., Rusk — HOSPITAL — East Texas Insane Asylum, c/o S. B. Cowell, chn., 1709 Brazos St., Austin, having plans prepared by Page Bros., 348 Austin Natl. Bank Bldg., Austin, improving hospital, here. $150,000.

Okla., Tulsa — OFFICE — J. M. Gillette, c/o Ketchum Hotel, having preliminary plans prepared by A. J. Love & Co., Lynch Bldg., 8 story and basement, 50 x 150 ft., rein.-con., plain foundation, 8th and Boulder Sts. $200,000. Noted Mar. 19.

Okla., Wewoka—HOTEL—Wewoka Hotel Co. having preliminary plans prepared 3 story and basement, 50 x 160 ft., brick, plain foundation, Walnut St. $160,000. R. Z. Wood, Wewoka, engr. Architect not selected.

Nev., Reno—BANK—Farmers & Merchants Bank, Nevada State Life Bldg., having preliminary plans prepared by F. J. DeLongchamps, Gazette Bldg., steel and concrete addition. $150,000.

Wash., Hoquiam — APARTMENT — H. Bittman, archt., Securities Bldg., Seattle, preparing plans and takes bids about June 2, 3 story and basement, 108 x 150 ft., rein.-con. and tile, 7th and L Sts., for R. Philbrick, Hoquiam. $200,000.

Wash., Seattle — STORE — H. Bittman, archt., Securities Bldg., preparing plans and takes bids about June 13, 2 story (ultimately 10 story) and basement, 108 x 120 ft., terra cotta, 4th and Stewart Sts., for Tyee Investment Co., Securities Bldg., $160,000.

Ore., Portland—OFFICE—W. L. Thompson, 1st Natl. Bank Bldg., plans 12 story, 50 x 100 ft. office building, Bway. and Stark St. $1,000,000.

Ore., Portland—STORE—S. H. Kress & Co., 114 5th Ave., New York City, N. Y., plans 4 story and basement, 100 x 100 ft., rein.-con., 5th and Morrison Sts., here. $500,000. Engineer and architect not selected.

California—HOTEL—H. Louterbach Co., et al., Burlingame, plans 2 story, 300 room hotel, incl. golf course and swimming pool, in Portola Valley, San Mateo Co. $1,000,000. Engineer and architect not selected.

Calif., Altadena (Pasadena P. O.) — HOME — Boys and Girls Aid Society of Pasadena, having plans prepared by M. Hunt, 1107 Hibernian Bldg., Los Angeles, four 1 story, 40 x 197 ft. dormitories, two 2 story, 130 x 268 ft. administration buildings, and two 2 story, 26 x 128 ft. hospitals, here. $300,000.

Calif., Alameda — HOTEL — Hockenbury Hotel System Inc., associated with Alameda Chamber of Commerce, R. W. Calcutt, pres. plans concrete hotel, foot of Beach St. $300,000.

Calif., Berkeley—OFFICE and STORE—Mercantile Trust Co., having plans prepared by W. H. Ratcliffe, Jr., Mercantile Trust Bldg., 10 story and basement, steel, Shattuck Ave. To exceed $350,000.

Calif., Fresno — COURTHOUSE — Plans election $350,000 bonds, for courthouse annex, etc.

Calif., Fresno—THEATRE—West Coast Theatres, Inc., of North California, 134 Leavenworth St., San Francisco, plans fireproof theatre here. $300,000.

Calif., Fruitvale—STORE and THEATRE—A. A. Cantin, archt., Flatiron Bldg., San Francisco, preparing plans 1 story, 100 x 200 ft., Class A store and theatre. $150,000. Owner's name withheld.

Calif., Garberville — HOTEL — Benbow Development Co., having plans prepared by A. Farr, 68 Post St., San Francisco, 2 story, 100 room, timber and plaster hotel. $150,000.

Calif., Hollywood — APARTMENT — H. Genser, Hibernian Bldg., Los Angeles, archt., preparing plans 4 story, 50 x 150 ft., brick, Beachwood Dr. Owner's name withheld.

Calif., Long Beach — OFFICE and APARTMENT—T. J. Sten had plans prepared by H. R. Davies, 1010 Farmers & Mechanical Bank Bldg., 4 story and basement, 52 x 200 ft., rein.-con., brick and timber, West 14th St. $200,000.

Calif., Los Angeles—APARTMENT—S. C. Lee, archt., Douglas Bldg., making preliminary plans 4 story and basement, 80 x 140 ft., brick, 10th and Valencia Sts. Owner's name withheld.

Calif., Los Angeles—APARTMENT—S. C. Lee, archt., Douglas Bldg., preparing preliminary plans 4 story and basement, 100 room, brick, Winfield St. Owner's name withheld.

Calif., Los Angeles—HOTEL—S. C. Lee, archt., Douglas Bldg., prepared plans, 5 story and basement, 100 room, Class A construction Leeward St. Owner's name withheld.

Calif., Los Angeles — HOTEL and APARTMENT—A. T. Williams, 331 South Westlake St., had preliminary plans prepared by W. Bruce, 525 Chapman Bldg., 3 story, 120 x 227 ft., timber and stucco, Long Beach Blvd. and Temple St. To exceed $150,000.

Calif., Los Angeles—HOTEL and STORE—A. C. Vaughan, et al, c/o Postle Co., archts., Van Nuys Bldg., had plans prepared 12 story and basement, 75 x 125 ft., rein.-con., Carondelet St. $750,000.

Calif., Los Angeles—OFFICE—J. Topfitzky, H. W. Hellman Bldg., having plans prepared by Schultze & Weaver, Pacific Mutual Bldg., 12 story and basement, 65 x 120 ft., terra cotta, stone and marble, Spring St. between 6th and 7th Sts. $1,000,000.

Calif., Los Angeles—POLICE STATIONS—City having preliminary plans prepared by Dept. of Construction, 799 West Santa Barbara Ave., 2 story, 80 x 100 ft., rein.-con. and brick, York Blvd.; also had plans prepared by above architects 3 story, 50 x 125 ft., rein.-con., Georgia Ave.

Calif., Los Angeles — THEATRE and LOFT—H. L. Arnold Co., 901 West 7th St., having preliminary plans prepared by T. B. Keim, Haas Bldg., 3 story and basement (ultimately 12 or 13 story) 105 x 325 ft., rein.-con., 7th St.

Calif., Newport Beach — HOTEL — F. Musselman, 1908 West 5th St., Santa Ana, plans hotel, fireproof construction, on 100 x 150 ft. site, 23rd St. and Ocean Ave., here. To exceed $150,000.

Calif., Oakland — STORE and OFFICE and LODGE — Corporated Masonic Temple Assn. of Oakland, c/o P. R. Williams, archt., Stock Exch. Bldg., Los Angeles, having plans prepared 3 story and basement, 90 x 100 ft., rein.-con. store, office and lodge building. To exceed $150,000.

Calif., Salinas — HOSPITAL—Monterey Co. plans fireproof hospital. To exceed $150,000.

Calif., San Bernardino—WAREHOUSE—San Bernardino Warehouse & Storage Co., plans 3 story (ultimately 5 story), 125 x 200 ft., rein.-con., South E St.

Calif., San Gabriel — HOME — National Benevolent Assn. c/o R. H. Orr, archt., Corporation Bldg., Los Angeles, having revised plans prepared, group of buildings for home, here $250,000 or more.

Calif., San Francisco — APARTMENT — G. A. Shaffer, et al, 560 Sutter St., having plans prepared by S. L. Hyman, 68 Post St., 10 story and basement, rein.-con., Pacific Ave. and Laguna St. To exceed $500,000.

Calif., San Francisco — OFFICE and SALESROOM—Kohler-Chase Co., O'Farrell

Buildings—Commercial (Continued)

St. near Stockton St., plans 6 story and basement, fireproof, vicinity of O'Farrell and Stockton Sts. $150,000 or more. Engineer and architect not selected.

Calif., San Francisco — THEATRE and STORE—West End Development Co., had plans prepared by P. F. DeMartini, 946 Bway., 1 story, steel and concrete, Mission St. near Oliver St. $155,000.

Ont., Toronto—BANK—Canadian Bank of Commerce, King and Melinda Sts., plans 6 story and basement, 150 x 160 ft., rein.-con., brick and steel addition, plain foundation, King St. $500,000. Engineer and architect not selected.

Ont., Toronto—OFFICES—Toronto General Trusts Corp., 253 Bay St., plans 3 story, 80 x 100 ft. addition, rein.-con., brick and steel, plain foundation, Bay St., $150,000. Engineer and Architect not selected.

H. T., Honolulu—HOTEL—Matson Navigation Co., et al., Matson Bldg., San Francisco, Calif., plans hotel, here. $2,000,000.

BIDS DESIRED

Mass., Brighton (Boston P. O.)—WAREHOUSE, OFFICE and SHOWROOM—International Harvester Co. of America, South Michigan Ave., Chicago, Ill., taking bids 4 story and basement, 80 x 160 ft., rein.-con., plain foundation, 63 North Beacon St., here. $200,000. Private plans.

Mass., Pittsfield—STORE—England Bros. Dept. Store, 184 North St., taking bids altering and constructing 3 story and basement, 50 x 100 ft., brick addition. $150,000. G. E. Haynes, 184 North St., archt.

Mass., Quincy (Boston P. O.)—COURTHOUSE—May 26, by Dept. Public Buildings, Boston, 1 story and basement, granite and limestone, plain foundation, Chestnut Hill Ave. and Academy Hill Rd., here. $225,000. O'Connell & Shaw, 134 Newbury St., Boston, archts.

Mass., Quincy (Boston P. O.) — THEATRE, STORE and OFFICE—National Theatre Co. taking bids 3 story and basement, 80 x 215 ft., rein.-con., brick and steel, Hancock St., Wollaston Sect. $200,000. J. L. Roberts Eng. Co., 101 Tremont St., Boston, engrs. Tuck & Co., 636 Warren St., Roxbury, archts. Noted Jan. 15.

N. Y., Brooklyn—CLUBHOUSE—July 15, by A. P. Brophy, chn. Building Comn., B. P. O. E. 22, 150 South Oxford St., 12 story and basement, 162 x 186 ft., brick, steel and stone, plain foundation, Boerum Pl., Schermerhorn and Livingston Sts. $4,500,000. McKim, Mead & White, 101 Park Ave., New York City, archts. Noted Apr. 2.

N. Y., Brooklyn—May 25, by Y. M. C. A., South Elliott Pl., 6 story and basement, brick, steel and stone, plain foundation, 6th Ave. and 9th St.

N. Y., Long Island City—FIRE STATION—May 26, by T. J. Drennan, fire comr., Municipal Bldg., New York City, central station for Bureau Fire Alarm Telegraph, Myrtle Ave. west of Guion Ave., Forest Park, here.

N. Y., New York—APARTMENT—Perlbinder Realty Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 6 story, 100 x 115 ft., brick, steel and stone, plain foundation, Bryan Ave. $200,000. Work will be done by separate contracts.

N. Y., New York—LOFT—Five Seventy 7th Ave. Corp., c/o Cowan & Daly, 41 East 42nd St., will build 20 story, 72 x 100 ft., brick, steel and stone, plain foundation 570-576 7th Ave. $1,000,000. Work will be done by separate contracts. Sugarman, Hess & Berger, 245 Madison Ave., engrs.

Pa., Phila. — APARTMENTS — Babies & Bender, Shubert Bldg., will build 4 story and basement, brick foundation, Chestnut and 62nd Sts. $150,000. Work will be done by separate contracts. J. W. Levin, 1011 Chestnut St., archt.

Pa., Phila.—APARTMENT—Owner, c/o J. E. Fieldstein, archts., Otis Bldg., will build 4 story and basement, 139 x 219 ft., brick and steel, plain foundation, Lincoln Dr. and Hatter St. $500,000. Work will be done by separate contracts.

Pa., Pittsburgh—MERCANTILE—W. E. Snaman, archt., Empire Bldg., will build 5 story and basement, 30 x 241 ft., brick and hollow tile, 5th and Oliver Aves., for Lloyd Department Stores, Inc., 318 Oliver Ave. $300,000. Work will be done by separate contracts.

O., Cleveland — APARTMENT — J. Narosny, 3rd Ave. E., taking bids 3 story and basement, 66 x 158 ft., brick, steel and concrete, 2060 East 83rd St. $200,000. Schabel & Grimm, Erie Bldg., archts.

Ill., Chicago—APARTMENT—E. Ellison, 8129 Paxton Ave., taking bids 3 story and basement, 60 x 125 ft., brick and stone, plain foundation, 7000 Kimbark St. $150,000. J. Hocke, 7602 Chappel Ave., archt.

Ill., Chicago—APARTMENT—R. Gregori, archt., 155 North Clark St., taking bids 3 story and basement, 50 x 135 ft., brick and terra cotta, plain foundation, 3067 Kenmore Ave., for L. and N. Wallack, 6438 Greenview Ave. $150,000.

Ill., Chicago—STORE—A. Epstein, archt. and engr., 2001 West Pershing Rd., taking bids 5 story and basement, 50 x 100 ft., rein.-con., brick and terra cotta, plain foundation, 6531 Halsted St., for South Side Furniture & Carpet Co., 473 East 31st St. $250,000.

Ill., Chicago—STORE and RECREATION—B. L. Steif, archt., 64 West Randolph St., taking bids 3 story and basement, 75 x 125 ft., brick and terra cotta, plain foundation, Milwaukee and Sawyer Aves., for I. W. Lederer, 6616 Cottage Grove Ave. $250,000.

Ill., Chicago—THEATRE and OFFICE—Lowenberg & Lowenberg, archts, and engrs., 111 West Monroe St., taking bids 3 story and basement, 125 x 175 ft., rein.-con., brick and terra cotta, plain foundation, 5900 Kedzie St., for C. M. Wasson, 343 South Dearborn St. $900,000.

Ill., St. Charles—THEATRE and OFFICE—E. F. Behrns, archt., 605 North Michigan Ave., taking bids 2 story and basement, 50 x 200 ft., rein.-con., brick and terra cotta, plain foundation, Main St., for L. Norris, 167 South Main St., St. Charles. $150,000. Noted Dec. 18.

Wis., Janesville—AMUSEMENT—H. F. Jones, 107 North Franklin St., taking bids for superstructure 2 and 1 story, 90 x 100 ft., and 42 x 110 ft., brick, concrete and steel amusement gardens, plain foundation, North Franklin St. $150,000. Private plans.

Wis., Milwaukee—BUSINESS—May 25, by M. Tullgren & Sons, archts., 425 East Water St., 2 story and basement, 20 x 60 ft., and 62 x 120 ft brick and concrete, plain foundation, Mason St., for G. Watts & Son, 424 Milwaukee St. $150,000. Noted Oct. 23.

Calif., Hollywood — CLUB — J. Morgan, archt., Merchants Exch. Bldg., San Francisco, taking bids 3 story and basement, rein.-con., Lexington Ave. and Lodi Pl., here, for Hollywood Studio Club. $150,000. Noted Apr. 9.

Calif., Long Beach—BANK and OFFICE—W. H. Wise, 115 West Bway., taking bids 4 story and basement, 75 x 150 ft., rein.-con. and tile, 113-123 East Bway. $200,000. W. H. Austin, 521 Pacific Southwest Bank Bldg., archt. Noted Feb. 19.

Calif., Ventura—HOTEL—Berg Investment Co. taking bids 5 story and basement, 150 x 150 ft., tile and timber hotel, Ventura St. $150,000. C. L. Jay, 845 East Washington St., Pasadena, archt. Noted Feb. 26.

BIDS RECEIVED

O., Cleveland — FIRE STATION — City, W. R. Hopkins, city mgr., 2 story and basement, 30 x 90 x 96 x 119 ft. brick, steel and concrete, Central Viaduct, from Griffin Constr. Co., 5511 Euclid Ave., $135,991. Noted May 7.

Calif., Oakland—HOSPITAL—Providence Hospital, c/o R. A. Herold, archt., Forum Bldg., Sacramento, from Schuler & McDonald, 306 12th St., for 5 story and basement, rein.-con., hospital, here. Noted Apr. 30.

CONTRACTS AWARDED

Mass., Boston—HOSPITAL—City, 9 story and basement, brick and limestone, plain foundation, Albany and East Concord Sts., to J. Bowen Co., 184 Dudley St., Roxbury. Noted May 21.

Mass., Dorchester (Boston P. O.) — APARTMENT—M. Locomovich & I. Landfield, c/o S. E. Moffie, archt., 46 Cornhill St., Boston will build 3 story and basement, 90 x 100 ft., brick and stone, Bowdoin St., here, by day labor. Archts. est. $200,000.

Mass., New Bedford — APARTMENT — Roosevelt Apartments, J. Lipsitt, Times Bldg., 5 story and basement, brick, to Rose Constr. Co., Times Bldg. Archts. est. $150,000 or more.

Mass., Northampton—DORMITORY—Bd. Trustees Smith College, three 4 story and basement, stone and granite, plain foundations, Kensington Ave., to J. P. Keating, 80 Boylston St., Boston. Archts. est. to exceed $150,000.

Mass., Quincy (Boston P. O.)—STORE, RESTAURANT and AMUSEMENT — Quincy Amusement Enterprise, 658 Hancock St., will build 1 and 2 story and basement, 103 x 238 ft., brick and timber, 671-681 Quincy Shore Dr., by day labor. $150,000 or more. Silverman, Brown & Heffernan, 51 Cornhill St., Boston, archts.

Mass., Quincy (Boston P. O.)—STORE—J. J. Johnson, 31 State St., Boston, 2 story and basement, rein.-con., brick and steel, plain foundation, Washington and Temple Sts., here, to E. S. Butterfield, 55 Broad St., Boston. Archts. est. $175,000.

Conn., New Haven—STORE, etc.—H. M. Bullard Co., 93 Orange St., 4 story, 40 x [illegible] ft. store and warehouse, 2 story, 70 x [illegible] ft. warehouse, and 1 story, 25 x 6[illegible] ft. garage, brick and steel, Grand Ave., to W. Murdock, Inc., 505 Grand Ave. Archts. est. $150,000.

N. Y., New York—DORMITORY—Y. M. C. A., 600 Lexington Ave., 5 story, 7[illegible] x 100 ft., brick, steel and stone, plain foundation, 175 West 137th St., to Dall, Hayden & Treat, Grand Central Terminal. Archts. est. $300,000.

Pa., Homestead — DORMITORIES — Carnegie Steel Co., Carnegie Bldg., Pittsburgh, general contract 1 story and basement dormitories, here, to Nicola Building Co., Pennsylvania and Dennison Aves., Pittsburgh. Archts. est. $150,000.

O., Cleveland — COMMERCIAL and THEATRE — Cedar-Lee Realty Co., c/o C. D. Simmons, pres., Fidelity Mortgage Bldg., 1 and 2 story, 120 x 120 ft., brick, steel and concrete, Lee Rd., to Van Blarcom Co., Natl. City Bldg. Archts. est. $200,000. Noted July 17.

O., Cleveland — COMMERCIAL and GARAGE—Rockwell Building Co., c/o C. S. and K. B. Britton, Caxton Bldg., 3 story, 60 x 100 ft., and 4 story, 66 x 80 ft., brick, steel and concrete with garage in basement, 717-31 Superior Ave., to Russell-Wales Co., 1419 St. Clair Ave. Archts. est. $200,000.

O., Columbus—OFFICE—Snyder, Babbitt & Matthews, archts., 16 East Broad St., 12 story and basement, 75 x 100 ft., rein.-con. and brick, High St., to J. W. Heckart, 209 South High St., for Huntington Natl. Bank, 21 South High St. $468,500. Noted Apr. 23.

O., Fostoria — STORE and OFFICE — J. Bigham, 4 story and basement, brick and concrete, 228 North Main St., brick work, to L. Martin, Fostoria, and plumbing and heating, to J. Rowles, Fostoria.

Ill., Rockford — BANK and OFFICE — Manufactures Natl. Bank, 327 East State St., general contract 8 story and basement, 46 x 116 ft., rein.-con., brick, steel and stone, to Holm-Page Co., Kishwaukee St. Archts. est. $500,000. Noted Apr. 23.

Ill., St. Charles — BANK, STORE and APARTMENT—E. J. Baker, St. Charles, 2 story and basement, 44 x 90 ft. and 22 x 60 ft., rein.-con., brick, stone and terra cotta, 2nd and Main Sts., to H. Jensen, St. Charles. Archts. est. $150,000. Noted Apr. 16.

Wis., Milwaukee—APARTMENT—State Realty Co., 137 2nd St., 3 story and basement, 60 x 150 ft., brick and tile, plain foundation, 25th St., to Reisinger & Co., 464 Oakland Ave. Archts. est. $150,000.

Minn., Minneapolis—AUDITORIUM—H. N. Knott, city clk general contract 5 story and basement, rein.-con., brick and steel 3rd and Stevens Aves., 14th and Grant Sts., to Natl. Constr. Co., 311 Metropolitan Bank Bldg., $1,757,125.

N. D., Valley City—COURT HOUSE—C. W. Nelson, aud. Barns Co., general contract 3 story and basement, rein.-con., brick and stone, to W. Butler Co., Summit and Lexington Aves., St. Paul, Minn., $277,906. Noted Apr. 16.

Mo., Kansas City—APARTMENTS—G. H. McCanles, of McCanles Building Co., Victor Bldg., will build 6 story and basement, 42 x 158 ft., 39th and Baltimore Sts. $440,000, and two 4 story and basement, 42 x 158 ft., one at 106 and other at 112 West 39th St., by day labor. $320,000 each, all rein.-con., plain foundations. Grand total $1,080,000. E. C. Faris, 3840 Main St., archt.

Mo., St. Louis — APARTMENT — E. M. Worthington, 535 Belt Ave., will build 3 story and basement, rein.-con., brick and stone, 4166-68 Lindell Blvd., by day labor. $750,000. W. S. Frank, Century Bldg., archt. J. T. Caraven, Century Bldg., engr. Noted May 7.

Mo., St. Louis—APARTMENT—Trade Realty & Building Co., 111 North 7th St., will build 3 story and basement, 114 x 137 ft., brick, concrete and stone, 4101-05 Magnolia St., by day labor. $150,000. N. B. Howard, International Life Bldg., archt.

Mo., St. Louis — STORE and APARTMENT—Plows-Bialock Co., 621 Chemical Bldg., will build 3 and 4 story and basement, 71 x 132 ft., brick, concrete and stone, Grand Blvd., by day labor. $150,000.

Buildings—Commercial (Continued)

Wedemeyer & Nelson, Wainwright Bldg., archts.

Mo., University (St. Louis P. O.) — APARTMENT—University City Realty Co., c/o C. P. Currant, 8th and Walnut Sts., St. Louis, will build 6 story and basement, 120 x 184.5 ft., rein.-con., brick, steel and terra cotta, 68th St. and Delmar Blvd., here, by day labor, under supervision of P. J. Bradshaw, archt., International Life Bldg., St. Louis. $1,000,000.

Tex., San Antonio — ORPHANAGE — Protestant Orphans Home, A. E. Chittem, ch. Building Comn., Milton and Elder Sts., general contract 3 story, rein.-con., brick and stone, Bandera Rd., to E. W. Oeffinger, 204 Maverick Bldg., San Antonio, $133,750. Noted Apr. 16.

Okla., Tulsa—OFFICE and THEATRE—J. M. Gillette, 307 Commercial Bldg., will build 8 story, 90 x 95 ft., concrete, brick, terra cotta and steel, 4th and Boulder Sts., by day labor. $450,000. E. W. Saunders, Commercial Bldg., archt. Noted May 14.

Ore., Astoria—HOTEL and STORE, etc. —E. P. Hawkins, 4 story, 95 x 120 x 180 ft., rein.-con. and timber, plain and woodpile foundation, Commercial, 11th and Duane Sts., to Uhrbrandt & Lerrick, Astoria. Archts. est. $250,000.

Calif., Fresno — EXCHANGE — Pacific Telegraph & Telephone Co., 333 Grant Ave., San Francisco, 4 story, rein.-con., Stanislaus St. and Van Ness Ave., to Monson Bros., 251 Kearny St., San Francisco, $350,000. Noted July 31.

Calif., Los Angeles—BANK, STORE and OFFICE—Security Trust & Savings Bank, 2 story and basement, 75 x 125 ft., brick and steel, Western Ave., to Edwards-Wildey-Dixon, Black Bldg. Noted May 14.

Calif., Los Angeles — HOTEL — S. H. Lund, Elmar Hotel, South Hope St., will build 4 story and basement, 60 x 75 ft., brick, South Hope St., by day labor.

Calif., Los Angeles—HOTEL and STORE —B. Hoffman, 6 story and basement, 50 x 135 ft., concrete and timber, Loomis St., near 6th St., to A. Bard & Co., 405 Union Bank Bldg., $160,000.

Calif., Los Angeles — STORE, OFFICE and THEATRE—J. J. Warrick, 2 story, 84 x 150 ft., rein.-con. and brick store and office building, and 2 story, 100 x 156 ft., concrete and brick theatre and store building, Vermont Ave. between 1st and 3rd Sts., to Bairn & Burch Co., 173 Jefferson St., $220,000. West Coast Theatres, Knickerbocker Bldg., lessee. Noted Mar. 5.

Calif., Oakland — APARTMENT and HOTEL—N. and K. Banhofer, 1636 Franklin St., 3 story, 110 room, concrete, brick and timber, East 15th St., to California Builders, Inc., 1636 Franklin St., $160,000. Noted Apr. 28.

Calif., Oakland—CLUB—Y. W. C. A., 6 story and basement, rein.-con., home and club, Harrison and 24th Sts., to Villadsen Bros., Inc., 417 Market St., San Francisco, approximately $180,000 (percentage basis).

Calif., Sacramento — DEPOT — Southern Pacific Co., 65 Market St., 3 story, rein.-con. passenger and freight depot, to Davison & Nicolsen, 336 Lafayette St., Stockton, approximately $200,000. Noted Apr. 23.

Calif., San Francisco—APARTMENT—J. Greenback, 180 Jessie St., will build 6 story and basement, rein.-con., Pacific Ave. by day labor. $150,000.

Calif., San Francisco — APARTMENT — C. Jorgenson, Atlas Bldg., will build 8 story and basement, Class A, Jackson St. near Laguna, by day labor. $150,000.

Calif., San Francisco—APARTMENT—E. Tropp, et al, c/o Hyman & Appleton, archts., 68 Post St., 10 story and basement, rein.-con. and steel, Pacific and Laguna Sts., to Cahill Bros., 55 Montgomery St., $500,000.

Buildings—Educational, Religious

PROPOSED WORK

Mass., East Douglas—HIGH SCHOOL—School Building Com. plans 2 story high school. $150,000. Engineer and architect not selected.

Mass., Harwich — SCHOOL — Town rejected bids 2 story and basement, 95 x 116 ft., brick and stone high and elementary school. $175,000. Will probably readvertise. W. T. Littlefield, 3 Hamilton Pl., Boston, archt.

Mass., Revere—HIGH SCHOOL—School Com. plans 2 story addition to Junior High School, Ward 2. $150,000. Engineer and architect not selected.

R. I., Central Falls—HIGH SCHOOL—Bd. Educ. plans brick and steel high school. $250,000.

N. Y., Ithaca — LIBRARY, etc. — State College of Agriculture, Cornell University, takes bids about June 20, 2 story 100 x 156 ft. library, 4 story 40 x 240 ft. plant industrial building, 4 story, 45 x 100 ft. Herbarium wings, and 1 story, 30 x 130 ft. top addition to surgical hospital. S. W. Jones, Albany, state archt.

Pa., Phila.—CHURCH—Unitarian Congregation, Germantown, R. S. Forbes, pastor, 7144 Crefelt St., plans church on Lincoln Dr. and Upsal St. $250,000. O. B. Jenkins, Land Title Bldg., pres. Bd. Trustees. Engineer and architect not selected.

Tennessee—SCHOOLS—State Legislature appropriated $160,000 for new buildings at Agricultural and Industrial Normal School at Nashville; and $50,000 for Alvin York Agricultural School in Fentress Co. A. Peay, State Capital, Nashville, governor. Noted Dec. 25.

Tenn., Nashville—COLLEGE—Southern Y. M. C. A. Training College, c/o W. D. Weatherford, Wesley Hall, having tentative plans prepared 4 story and basement, brick and stone, incl. swimming pool, gymnasium, laundry, etc., 21st Ave. S. $507,000. Plans will be adopted by local engrs. Noted Apr. 30.

Tenn., Nashville — COLLEGE — Scarritt College for Christian Workers, J. L. Cunninggin, pres., takes bids about June 6, (1st unit) Bennett Memorial Building, brick and stone. $300,000. H. C. Hibbs, 4th and 1st Natl. Bank Bldg., archts. Noted Aug. 7.

O., Canton—CHURCH and SCHOOL—St. Anthony's Roman Catholic Church, had plans prepared by W. Koehl, 1720 Euclid Ave., Cleveland, 2 story, brick, steel and concrete church and school. $150,000.

O., Canton—HIGH SCHOOL—Bd. Educ., J. F. Roos, clk., takes bids about May 21, Central High School, 2 story and basement, rein.-con. and brick. $168,000. Vernon, Redding and associates, Mansfield, archts.

O., Canton—SCHOOL—Bd. Educ. takes bids about May 15, 2 story and basement, 82 x 111 ft., brick, steel and concrete addition to Gibbs School. $150,000. Richards, McCarty & Bulford, Columbus, archts. Noted Apr. 23.

O., Cleveland — SCHOOL — Bd. Educ. having plans prepared by W. R. McCornack, East 6th St. and Rockwell Ave., 3 story, brick, steel and concrete, Oak Park. $475,000.

O., Cleveland Heights (Warrensville P. O.)—CHURCH—Church of the Cross (Methodist Episcopal), A. L. Marting, pastor, Berea, having preliminary plans prepared by H. W. Maurer, 1991 East 66th St., Cleveland, 1 story, brick, Caledonia and Winsford Rds. $150,000.

O., East Cleveland (Cleveland P. O.)—CHURCH and SUNDAY SCHOOL—Windemere Methodist Episcopal Congregation, B. McCarty, pastor, 14037 Euclid Ave., plans 1 and 2 story, brick and steel, Euclid and Holyoke Aves. $160,000. Austin Co., 16112 Euclid Ave., Cleveland, archts.

O., Kenmore — HIGH SCHOOL — Bd. Educ. plans 2 story and basement school. $300,000.

Mich., Ovid—SCHOOL—Bd. Educ. having plans prepared by Lane, Davenport & Peterson, 1017 Charlevoix Bldg., Detroit, 2 story and basement, rein.-con., brick and steel, plain foundation. $150,000.

Ill., Chicago—CHURCH—Greek Orthodox Church, 9866 Commercial Ave., D. Kozomara, pastor, plans 2 story and basement church, 9800 Commercial Ave. $150,000. Engineer and architect not selected.

Ill., Chicago — CHURCH — South Shore Methodist Episcopal Church, J. P. Stafford, 8738 South Michigan Ave., pastor, having plans prepared by C. F. Wheeler, 4635 North Kenton Ave., 2 story and basement, 30 x 125 ft., rein.-con., brick and terra cotta, plain foundation, 7700 Colfax Ave. $150,000.

Ill., Chicago—SCHOOL—Olviet Institute, 4444 Blackhawk Ave., having plans prepared by Perkins, Fellows & Hamilton, 814 Tower Court, group rein.-con., brick and stone school buildings, plain foundations, Cleveland and Blackhawk Aves. $600,000.

Ill., Kankakee — HIGH SCHOOL — Bd. Educ. E. A. Jeffers, pres., 830 South Main St., takes bids about May 28, 3 story and basement, concrete, brick and stone high school $500,000. L. T. W. Steube, 415 Adams Bldg., Danville, archt. Noted Feb. 19.

Wis., Madison — GYMNASIUM — University of Wisconsin, J. D. Phillips, bus mgr., Administration Bldg., plans rein.-con., brick and steel gymnasium, 12,000 seating capacity, plain foundation. $250,000. Engineer and architect not selected.

Wis., Milwaukee — INSTITUTION and CHAPEL—House of Good Shepherd, 5010 North Ave., having preliminary plans prepared by Eschweiler & Eschweiler, 210 Mason St., girls, sisters and Magdalen buildings and chapel, 3 story and basement, rein.-con. and brick, plain foundation, North Ave. To exceed $150,000.

Wis., Superior—GYMNASIUM—Bd. Normal School Regents, State Capitol, Madison, having plans prepared by A. Peabody, State Capitol, Madison, 2 story, 62 x 210 ft., brick and concrete, plain foundation, at State Normal School, here. $175,000.

Kan., Pittsburg—LIBRARY—State Bd. Administration, Topeka, having preliminary plans prepared by C. Cuthbert, State Capitol, Topeka, 2 story and basement, brick, concrete and stone library, here, for State Teachers College, Topeka. $150,000.

Neb., Gothenburg—HIGH SCHOOL—Bd. Educ., secy., plans new high school. $175,000. Davis & Wilson, 525 South 13th St., Lincoln, archts.

Neb., Hastings — SCHOOL — Bd. Educ., plans school. $350,000. K. H. Gedney & Co., Loyal Mystic Legion Bldg., archts.

Wyo., Casper — CHURCH — Owner c/o L. A. Reed, chn. building com., had plans prepared by R. S. Webb, Daly Bldg., Presbyterian Church, 1 story and basement, 100 x 120 ft., rein.-con., brick and steel, Wolcott and 8th Sts. $160,000.

Mo., Independence—CHURCH AUDITORIUM—Reorganized Church of Jesus Christ of Latter Day Saints having plans prepared by H. C. Smith, 1009 Pioneer Trust Bldg., Kansas City, 1 story and basement, 185 x 214 ft., rein.-con., brick, stone and steel, River Blvd. and Walnut St. $800,000.

Mo., Mexico—HIGH SCHOOLS—Election soon $300,000 bonds 2 and 3 story, rein.-con., brick and stone Senior and Junior high schools.

Mo., Warrensburg—GYMNASIUM—Central Missouri Teachers College appropriated $175,000 for gymnasium.

Ark., Hot Springs—HIGH SCHOOL—Bd. Educ. making preliminary plans Junior High School, 3 story, 134 x 138 ft., rein.-con., brick and steel. $150,000.

Tex., Dallas — HIGH SCHOOL — Bd. Educ., c/o W. C. Lemon, South Akard and Royal Sts., plans high school on east side. $500,000. Engineer and architect not selected.

Tex., Houston — HIGH SCHOOLS — Bd. Educ., c/o H. L. Mills, bus. mgr., 1600 Washington Ave., having plans prepared by Endress & Cato, Bankers Mortgage Bldg., J. Finger, Keystone Bldg. West End Junior High School, 2 story, rein.-con., brick and steel, $150,000; also having plans prepared by M. J. Sullivan, and Briscoe & Dixon, 1701 2nd Natl. Bank Bldg., North Side Senior High School, 2 story, rein.-con. and stone., $230,000. W. W. Watkins, Scanlon Bldg., consult. archt. on both projects.

Tex., Ft. Worth — SCHOOLS — Election May 29, $2,000,000 bonds for schools. M. H. Moore, supt. Bd. Educ.

Tex., Wichita Falls — HIGH SCHOOL — Voted $500,000 bonds for Junior High school, and additions to other schools, concrete brick and stone, plain foundations.

Tex., San Antonio — HIGH SCHOOL — Election in June $250,000 bonds Junior High School, 2 story and part basement, rein.-con., brick and stone, plain foundation, Yorkshire and Berkshire Sts. Phelps & De Wees, Gunter Bldg., archts.

Calif., Bakersfield—AUDITORIUM, etc.—Roman Catholic Archbishop, Los Angeles, having plans prepared by E. G. Martin, Citizens Natl. Bank Bldg., Los Angeles, for 5 buildings, incl. rectory, convent, church and school, probably brick or concrete, California Ave.

Calif., Brawley—SCHOOL, etc.—Brawley High School Dist. having preliminary plans prepared by G. S. Wilson, 646 West 9th St., Riverside, new shop building, gymnasium and swimming pool. $175,000.

Calif., Colusa—HIGH SCHOOL—Voted $200,000 bonds for new high school. Noted Mar. 26.

Calif., Hollister — CONVENT — Sacred Heart Convent, c/o Shea & Shea, archts., 454 Montgomery St., San Francisco, having plans prepared rein.-con. and timber convent, school and hall. $150,000.

Calif., Long Beach — SCHOOL — Roman Catholic Archbishop, Los Angeles having plans prepared by E. G. Martin, Citizens Natl. Bank Bldg., Los Angeles, 2 story, brick, 7th St. $150,000.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ. having plans prepared by Russell & Alpaugh, Story Bldg., Sawtelle-Harding High School, 2 story, 135 x 151 ft., rein.-con. and brick.

Calif., San Diego — SCHOOLS — Voted $400,000 bonds, constructing new schools and enlarging and completing some now under construction. W. Angier, U. S. Natl. Bank Bldg., secy Bd. Educ.

Buildings—Educational, Religious (Cont.)

Ont., Pembroke — HIGH SCHOOL — Bd. Educ. soon takes bids 3 story and basement, 100 x 176 ft., rein.-con. and brick high school, plain foundation. $150,000-$200,000. Craig & Madill, 707 Yonge St., Toronto, archts.

BIDS DESIRED

N. H., Goffstown — HIGH SCHOOL — Town taking bids 2 story and basement, 40 x 110 ft., brick and stone high school. $150,000. C. R. Whitcher, 814 Elm St., Manchester, archt. $150,000.

N. H., Rochester — HIGH SCHOOL — School Comn. taking bids 3 story and basement, 68 x 70 ft., and 52 x 90 ft., brick and stone high school, plain foundation. $165,000. J. E. Richardson, 56 Grove St., Dover, archt. Noted Apr. 2.

Mass., Lawrence—SCHOOL—School Bd. taking bids 2 and 3 story and basement, brick, Allen St. Eastern Sect. $150,000. Ashton, Huntress & Alter, 477 Essex St., archts. Noted Feb. 26.

Mass., Leominster — SCHOOL — St. Cecelias French Catholic Church, J. E. Chicoins, pastor, taking bids 3 story and basement, brick, Mechanic St. $150,000. W. H. Fountain, Federal Bldg., Worcester, archt. Noted Mar. 19.

Mass., South Attleboro—SCHOOL—May 22, by City, R. R. Briggs, chn. com., 2 story and basement, brick, plain foundation. $150,000. McLaughlin & Burr, 88 Tremont St., Boston, archts.

Pa., Phila.—SCHOOL—May 23, by P. A. Monaghan, archt., 1713 Sansom St., 3 story and basement, 63 x 143 ft., brick and steel, plain foundation, East 4th and Buist Sts., for St. Barnabas Roman Catholic Church, J. E. Dougherty, pastor. $150,000.

Pa., Reading—HIGH SCHOOL—May 26, by A. H. Leader, supt. Buildings, Bd. Educ., 3 story and basement, 152 x 360 ft., brick and steel, plain foundation, 13th, Oley and Palm St. Ritcher & Eiler, Reading, archts.

O., Cleveland—SCHOOL—June 1, by Bd. Educ., W. S. Malcus, R. F. D. Warrensville, Cleveland, 2 story and basement, brick, steel and concrete addition, Lee and Miles St. $160,000. Fulton & Taylor, 8120 Euclid Ave., archts.

O., Cleveland — SYNAGOGUE — Chevas Jerusalem Congregation, H. F. Epstein, rabbi, 2297 East 89th St., taking bids 2 story and basement, 50 x 175 ft., brick, steel and concrete, Parkwood Dr. $150,000. M. Altschuld, 5116 Woodland Ave., archt.

O., Shawnee—SCHOOL—May 23, by Bd. Educ., Shawnee Rural School Dist., E. E. Clem, clk., 2 story and basement, 66 x 179 ft. with 68 x 91 ft. wing, brick, steel and concrete centralized school. $250,000. T. D. McLaughlin and associates, 610 Savings Bldg., Lima, archts.

Mich., Ironwood — CHURCH — E. Brielmaier & Sons, archts., 432 Bway., Milwaukee, Wis., taking bids 2 story, 66 x 130 ft., brick and stone, plain foundation for St. Ambrose Congregation, J. Moriarity, pastor. $150,000.

Ia., Maringo—SCHOOL—May 28, by Bd. Educ., D. Gode, secy., 2 story and part basement, 140 x 170 ft., concrete and brick school. $150,000. Dougher, Rich & Woodburn, 806 Valley Natl. Bank Bldg., archts. Noted Feb. 5.

BIDS RECEIVED

Minn., Minneapolis — SCHOOL — Bd. Educ., City Hall, May 8, general contract 3 story and basement, rein.-con., brick and stone new school also remodeling and constructing addition to present building, Spruce Pl. and 14th St., from Madsen Bros., 548 Builders Exch., $182,907 and $86,970 respectively. Noted Apr. 30.

CONTRACTS AWARDED

Mass., Brookline (Boston P. O.) — CHURCH — All Saints Episcopal Church, Dean Rd., altering and constructing 1 story and basement, rein.-con. and granite addition, plain foundation, to F. L. and C. E. Whitcomb, Inc., 17 Wareham St., Boston. Archts. est. $150,000.

R. I., Providence — COLLEGE — Brown University, 2 story and basement, 51 x 110 ft., brick and steel, Brook and Manning Sts., to C. B. McGuire Co., 507 Grosvenor Bldg. Archts. est. $170,000.

Conn., Ridgefield — HIGH SCHOOL — Supt. Schools, Town Hall, 2 story and basement, 40 x 120 ft., brick and steel, Middleridge Ave., to R. E. Bassett, Ridgefield. Archts. est. $150,000. Noted Apr. 30.

Conn., Simsbury—SCHOOL—Bd. Educ., 1 story and basement, 130 x 160 ft., brick, to Lawrence & Coe, 372 Trumbull St., Hartford.

Conn., Stamford — SCHOOL — Sisters of St. Joseph, Strawberry Hill, 3 story and basement, 60 x 120 ft., and 40 x 50 ft., brick and stone, Strawberry Hill, here, to Clark Constr. Co., 168 Grand St., Waterbury. Archts. est. $200,000. Noted Apr. 16.

N. J., Westfield—SCHOOL—Bd. Educ., 3 story and basement, 172 x 185 ft., brick and steel, plain foundation, Clark St. and Tuttle Parkway, to Thomas, Day & Son, Fitz-Charles Bldg., Trenton, $327,004. Noted May 14.

Md., Boonsboro—SCHOOL—Washington Co. School Bd., c/o A. J. Klinkhart, archt., Hagerstown, 2 story, 112 x 146 ft., brick and steel, plain foundation, to W. H. Miller, Williamsport, $150,000.

O., Norwood (Ind. Br. Cincinnati)—SCHOOL—Bd. Educ., 1 story and basement, rein.-con. and brick, Hannaford St., excavating, concrete, cement, brick and terra cotta and carpentry work, to E. A. Curry, 1855 Kinney Ave., Cincinnati, $142,290; plumbing and heating, to H. Niemes, 4112 Hamilton Ave., Cincinnati, $30,690. Noted Apr. 9.

Minn., White Bear (White Lake P. O.)—CHURCH — St. Mary's Roman Catholic Church, general contract 2 story and basement, 60 x 120 ft., rein.-con., brick and stone, to C. Skooglun, 502 Ryan Bldg., St. Paul, approximately $150,000. Noted Dec. 25.

Kan., St. Marys—COLLEGE—St. Marys College, general contract 3 story and basement, 125 x 125 ft., rein.-con. and native stone, plain foundation, on campus, to G. P. Reintjes Co., Interstate Bldg., Kansas City, Mo. $175,000.

Neb., Lincoln — HIGH SCHOOL — Bd. Educ., J. C. Ludlam, secy., general contract for Clinton Junior High School, 2 story and basement, rein.-con., brick and steel, to Olson Constr. Co., 205 Chapin Bldg., $242,000. Noted Apr. 9.

Neb., Lincoln—SCHOOL—Bd. Educ., J. G. Ludlam, secy., 2 story and basement, 65 x 100 ft., rein.-con., brick and stone, Sheridan Park and Wendover Ave., to C. C. Bickel, University Pl., $117,980. Noted Apr. 9.

Mo., Hannibal — HIGH SCHOOL — Bd. Educ., E. F. Mangles, secy., general contract Central High School, 2 story and basement, 110 x 195 ft., rein.-con., brick and stone, to Dean & Hancock, Sedalia, $130,500. Noted Apr. 23.

Mo., Hannibal — HIGH SCHOOL — Bd. Educ., E. F. Mangels, secy., Eugene Field Junior High School, 3 story, 70 x 200 ft., brick and concrete, to Tobin Constr. Co., Grand Ave. and Delmar Blvd., St. Louis. Archts. est. $175,000.

Ore., Portland—SCHOOL—School Dist. 1, Hasford School, 2 story, 165 x 278 ft., rein.-con., plain foundation, Kenelworth Ave. and East Grant St., to Parker & Bansfield, 62 East 3rd St. N. E., $209,800.

Calif., Pasadena — LIBRARY — City, 1 story, brick and terra cotta, Walnut and Garfield Sts., to Orndorff Constr. Co., 351 North Western Ave., Los Angeles, $318,817. Noted Apr. 7.

Calif., San Francisco — SCHOOL — Bd. Pub. Wks., Alvardo School, 22nd and Douglas Sts., to Monson Bros., 251 Kearny St., for City and San Francisco Co., $261,-850. Noted Apr. 2.

Ont., Ottawa—MONASTERY—Dominican Fathers, 95 Empress Ave., addition to monastery, to Doran Constr. Co., 273 Wilbrod St., about $200,000.

Federal Government Work

PROPOSED WORK

D. C., Wash.—Steel, etc.—May 28, at office A. L. Flint, genl. purch. officer, Panama Canal, Wash., D. C., furnishing steel, steel rope, insulated cable, wire, iron or steel pipe, etc.

Ky., Louisville — Pipe — U. S. Engineer Office, P. O. Box 72, soon takes bids 1,500 ft. 4 in., 2,460 ft. 3 in. w. i. pipe for Dams 49, 50 and 52, Ohio River.

Ky., Louisville—Pump—U. S. Engineer Office, P. O. Box 72, soon takes bids horizontal duplex boiler feed or pressure pump, etc. E. Kanzler, purch. agt.

California—Bridge—C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, plans Donner Summit Bridge, concrete and steel, in Tahoe Natl. Forest, Nevada Co.

BIDS DESIRED

Conn., Norwich—Remodeling—June 19, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling post office, here.

N. J., Vineland—Post Office—June 11, by Treas. Dept. at office Supervising Archt., Wash., D. C., 60 x 68 ft. post office here; adv. E. N.-R. May 21

Pa., Pittsburgh—Remodeling—June 10, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling post office, here; adv. E. N.-R. May 21.

Ga., Brunswick — Electric Light Plant — June 16, by Treas. Dept. at office Supervising Archt., Wash., D. C., electric light plant at Quarantine Sta. here.

Ala., Mobile — Heating Plant — June 16, by Treas. Dept. at office Supervising Archt., Wash., D. C., hot water heating plant.

Ala., Montgomery—Barge—June 16, by U. S. Engineer Office 80 ft. steel barge; adv. E. N.-R. May 21.

La., New Orleans—Heating System — June 17, by Treas. Dept. office Supervising Archt., Wash., D. C., heating system at Marine Hospital here.

La., New Orleans—Incinerator—June 16, by Treas. Dept. at office Supervising Archt., Wash., D. C., incinerator at Marine Hospital, here.

Ohio—Breakwaters—June 11, by U. S. Engineer Office, Buffalo, N. Y., stone superstructures on breakwaters at Cleveland, Fairport, and Ashtabula Harbors, Ohio; adv. E. N.-R. May 21.

Colorado — Roads — June 15, by G. E. Goodwin, ch. civil engr., at office Superintendent Mesa Verde Natl. Park, Mancos, 3 or 4 mi. roads in Mesa Verde Natl. Park.

Ariz., Whipple Barracks—Cable, etc.—June 16, by U. S. Veterans Bureau Wash., D. C., furnishing and installing cables and wiring for automatic telephone system at Hospital 50, here.

Ariz., Whipple Barracks — Fire Alarm System — June 16, by U. S. Veterans Bureau, Wash., D. C., fire alarm system at hospital 50, here.

P. I., Canacao—Hospital—Spec. 5651, July 29, (extended date) by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing hospital here. Noted Apr. 16.

BIDS RECEIVED

Mass., Boston—Repairing Crane—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing crane here, from Amer. Hoist & Derrick Co., 63 South Roberts St., St. Paul, Minn., (1) $39,973, (1a) $793, (2) $32,183 (2a) $793 (3) $32,078, (3a) $793 (4) $21,086 (4a) $793, (5) $25. Noted May 7.

Conn., Mystic—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here, from W. MacDonald Constr. Co., Syndicate Bldg., St. Louis, Mo., $43,736. Noted Apr. 23.

Fla., Lake City—Roads and Walks—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., roads and walks at U. S. Veterans Hospital, here, from A. C. Samford, Montgomery, Ala., (1) $18,040 (2) $1,500 (3) $930.

Ky., Louisville—Metal Work—U. S. Engineer Office, P. O. Box 72, metal work for Beartrap Weirs for Dam 45, Ohio River, from J. and J. B. Milholland Co., 714 5th Ave., Pittsburgh, Pa., valves and operating machinery, Lot A $3,090, tripping bar, etc., Lot C $695, reinforcing bars, Lot D $1,244; from Amer. Car & Fdry. Co., Jeffersonville, Ind., fixed metal work, Lot B $14,589. Noted Apr. 16.

Ia., Knoxville—Roads and Walks—U. S. Veterans Hospital, Room 791 Arlington Bldg., Wash., D. C., roads and walks at Hospital, here, from T. Amadeo, Des Moines, $36,000.

Wyoming—Road—J. W. Johnson, dist. engr. Custom House, Denver, Colo., grading 1.71 mi. Dayton-Steamboat Rock Project, Sheridan Co., here, from J. S. Haley, Bozeman, Mont., classified $41,136, unclassified $39,974.

Colorado—Road—W. W. Johnson, dist. engr. Bureau Pub. Rds., 301 Custom House, Denver, grading 5.1 mi. Cumbres Pass Natl. Forest Rd., Conejos Co., from W. A. Colt & Son, Las Animas, classified $34,394, unclassified $35,884. Noted Apr. 30.

H. T., Pearl Harbor—Elevator—Bureau Yards & Docks, Navy Dept., Wash., D. C., elevator here from Otis Elevator Co., 816 18th St. N. W., Wash., D. C., $4,595.

CONTRACTS AWARDED

R. I., Providence—Dredging—U. S. Engineer Office, dredging in Block Island Harbor of Refuge, to J. S. Packard Dredging Co., Turks Head Bldg., $10,460. Noted Apr. 2.

N. C., Thomasville—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story brick and tile post office, here, to Agostina Bros., Arcade Bldg., Norfolk, Va., $37,939. Noted Apr. 16.

La., New Orleans — Levee Work — U. S. Engineer Office, 140 Decatur St., 301,000 cu.yd. levee work in Sycamore Levee and 187,000 cu.yd. Minorca Levee, both Lower Tensas Levee Dist., Concordia Parish, to Dameron & Kenyon, Baton Rouge, $48,211 and $30,014 respectively; 123,800 cu.yd. Manchac Levee Dist., Iberville Parish, to Lower Coast Constr. Co., Godchaux Bldg., $14,720; 42,000 cu.yd. White Castle Levee, Atchafalaya Levee Dist., Iberville Parish, to D. B. Hearin & Son, Baton Rouge, $5,137.

Ky., Louisville—Metal Work—U. S. Engineer Office, P. O. Box 72, metal work for Navigable Pass of Dam 46, Ohio River, to Amer. Car & Fdry. Co., Jeffersonville, Ind., 77,783 lb. structural steel, 80,853 lb. steel castings, 2,380 lb. 3,198 lb. steel forgings.

Federal Government Work (Continued)

Lot A, $11,588, 218,989 lb. structural steel, 25,308 lb. steel forgings and 23,256 lb. steel castings, Lot B, $10,698; 547,200 lb. steel forgings Lot C, $26,998; to Centre Fdry. & Machine Co., Warwood Ave., Wheeling, W. Va., 196,875 lb. cast iron Lot D, $6,647; to J. T. Ryerson Co., 2558 West 16th St., Chicago, Ill., 90,000 lb. steel, Lot E, $2,236.

Ill., Genesco—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here, to W. D. Lovell, 2247 Hendon Ave., Minneapolis, Minn., $40,455. Noted Jan. 1.

Mo., St. Louis — Earthwork — Mississippi River Comn., 1311 International Life Bldg., 300,000 cu.yd. earthwork in Iowa River-Flint Creek Levee Dist. 16, in Iowa, to La Crosse Dredging Co., Plymouth Bldg., Minneapolis, Minn., $0.2475 per cu.yd. Noted May 7.

Unclassified

PROPOSED WORK

Elevated Station—Boston, Mass.—Commonwealth of Boston, State House, making plans elevated station, Charles and Cambridge Sts. $600,000. Boston Transit Dept., 1 Beacon St., engrs.

Playground, Boston, Mass. — City Planning Bd., plans playground on Webster Ave., Hanover and Unity Sts., North End Dist. $100,000. F. H. Fay, chn.

Swimming Pool—New York, N. Y.—See "Buildings—Commercial."

Swimming Pool — Augusta, Ga. — See "Buildings—Commercial."

Gas System — Clearwater, Fla. — Plans election $70,000 bonds extending gas system. C. Mason, city mgr.

Swimming Pool—Nashville, Tenn.—See "Buildings, Educational, Religious."

Grandstand—Akron, O.—Firestone Tire & Rubber Co., South Main St., had plans prepared by Osborn Eng. Co., 7016 Euclid Ave., Cleveland, 1 story, rein.-con. grandstand. $75,000.

Dock Development — Cleveland, O. — Cuyahoga Co., plans developing dock along Lake Erie East 9th St. to Gordon Park, also bulkheads, etc. To exceed $500,000. R. Hoffman, City Hall, engr.

Park Improvements — Chicago, Ill. — Bd. South Park Comrs., 5700 Cottage Grove Ave., having plans prepared by L. White & A. H. Plunt, 5700 Cottage Ave., 1 story, rein.-con., brick and stone buildings, plain foundations incl. assembly halls and swimming pool, 50 x 150 ft., gymnasium, shower buildings, etc. 48 x 105 ft. and 60 x 110 ft. steam heating plant 45 x 68 ft., all in J. R. Mann Park, 130th and Commercial Sts., $250,000; service yard 110 x 180 ft., swimming pool 50 x 150 ft., and locker, shower room, etc., 60 x 110 ft. and 48 x 106 ft., in Tuley Park, 98th and South Park St., $150,000.

Heating and Plumbing—Rockford, Ill.—Peterson & Johnson, archts., Swedish Amer. Bank Bldg., soon takes bids heating and plumbing, etc., for 8 story and basement, 46 x 116 ft. bank and office building for Manufacturers Natl. Bank, 327 East State St. $500,000.

Golf Course—Portage, Wis.—R. F. Pfeil, 123 East Cook St., making plans public golf course, etc. $25,000. F. H. Baker, c/o owner, engr.

Stadium—Columbia, Mo.—University of Missouri had plans prepared and soon takes bids (1st unit) rein.-con. memorial stadium, 22,000 (ultimately 100,000) seating capacity, also grading, etc. for athletic field. $300,000. J. P. Jamieson & G. Spearl, Arcade Bldg., St. Louis, archts.

Grain Elevator — Kansas City, Mo. — Chicago & Alton, R.R. Co., 340 West Harrison St., Chicago, Ill., having plans prepared 1,000,000 bu. grain elevator rein.-con. $500,000. R. A. Cook, ch. engr.

Swimming Pool — St. Louis, Mo. — See "Buildings—Commercial."

Swimming Pool, Golf Course, etc.—California—See "Buildings—Commercial."

Subway — California — State Hy. Comn., Sacramento, Los Angeles Co. (Los Angeles), and Union Pacific R.R., 58 East Washington St., R. L. Huntley, ch. engr., plan subway under state highway and railroad tracks between Montebello and Whittier. $160,000 or more.

Lighting System, etc. — Los Angeles, Calif.—City Harbor Comn., soon takes bids ornamental lighting system and paving various streets. To exceed $75,000. G. F. Nicholson, ch. engr.

Tunnels—Los Angeles, Calif.—City plans pedestrian tunnels orposite city schools. To exceed $350,000. H. A. Van Norman, city engr.

Street Lighting System—Oakland, Calif.—City Council, E. K. Sturgis, clk., soon takes bids electrolier system around Lake Merritt. To exceed $25,000. W. W. Harmon, city engr. Noted Apr. 9.

Culverts — San Diego, Calif. — Common Council plans 1,438 ft. rein.-con. culvert in N St., incl. 1902 ft. 36 in. double S. C. and 1,943 ft. 30 in. D. S. C. pipe. etc. $75,000. F. A. Rhodes, city engr.

Swimming Pools, etc.—Hamilton, Ont.—Plans to expend $25,000 on swimming and wading pools. W. L. McFaul, city engr.

BIDS DESIRED

Heating System—Geneva, N. Y.—June 17, by C. D. Bostwick, comptroller, Cornell University, Ithaca, heating work, new boilers, etc. for Geneva Experimental Sta., here. S. W. Jones, Albany, state archt.; adv. E. N.-R. May 21.

Inspection Shed—Long Island City, N. Y.—May 29, by Bd. Transportation, 49 Lafayette St., New York City, extending inspection shed at Queensboro Plaza Sta., Routes 36 and 37, Sect. 1, here.

Electrical and Refrigerating Equipment—New York, N. Y. — June 16, by E. J. O'Malley, comr. Pub. Markets, Municipal Bldg., complete mechanical electrical and refrigerating equipment for Bronx Municipal Market, Exterior and East 151st Sts.

Dock, etc.—Baton Rouge, La.—June 11, by Comn. Council, dock and approaches. J. W. Billingsley, Interstate Bank Bldg., New Orleans, consult, engrs.; adv. E. N.-R. May 21.

Electric Light System—Youngsville, La.—See "Waterworks."

Athletic Field — Cleveland, O. — May 25, by Bd. Educ., F. H. Hogen, dir., East 6th St. and Rockwell Ave., athletic field, and grading, laying walks, landscaping and fencing property. To exceed $25,000. W. R. McCormick, East 6th St. and Rockwell Ave., engr.

Swimming Pool and Natatorium—Corsicana, Tex. — Bd. Directors Natatorium, Inc., c/o R. M. Tilley, taking bids swimming pool and natatorium, incl. 5,500 cu.yd. excav., 2,000 ft. drain tile, 5,300 sq.ft. sidewalks, 700 lin.ft. curb wall, 32,300 sq.ft. floor slab, 11,000 lb. reinforcing, etc. $10,000. W. W. McClendon, Corsicana, engr.

Causeway — Dallas, Tex. — City taking bids 7,200 ft. causeway, incl. 100 ft. steel span, 135 ft. creosoted pile trestle approach, 1,020 ft. creosoted pile bridging, 5,945 ft. earth roadway 10 ft. high, 105,000 cu.yd. embankment, etc., across Gorza Reservoir at Fish Trap Crossing, near Mingo Station. Nagle & Thompson, 2003½ Main St., consult. engrs.

Sub-Tunnel—Los Angeles, Calif.—Tunnels Transportation Co., 426 California Bldg., taking bids 1,500 ft. 16 x 8½ ft. tunnel between Hill and Figueroa Sts., 13,000 cu.yd. excav., 5,000 cu.yd. rein.-con., 32,000 sq.ft. concrete base with asphalt surface paving, etc. $250,000. Private plans.

BIDS RECEIVED

Subway — Long Island City, N. Y. — Bd. Transportation, 49 Lafayette St., New York City, May 15, additions and alterations to Queensboro subway, from Gotham Constr. Co., 50 Church St., New York City, (1) $84 (2) $14,603. Noted May 14.

Bulkhead, etc. — New York, N. Y. — M. Cosgrove, comr. Docks, Pier A, May 18, (1) removing existing old structures (2) dredging and disposal of material (3) new bulkhead platform with wall (4) riprap for bulkhead (5) platform for East 139th and 140th Sts. dump, contr. 1852-A, from A. M. Hazell, Inc., 26 Cortlandt St. (1) $1,275; from H. Steers Inc., 17 Battery Pl., (2) $31,900 (4) $10,800 (5) $90,845; from A. N. Spooner, Pier 11, North River (3) $40,270. Noted May 14.

Steam Heating System—New York, N. Y.—E. J. O'Malley, comr. Pub. Markets, Municipal Bldg., May 14, steam heating system in wholesale market, storage building and power house for Bronx Municipal Terminal Market, Exterior and East 151st Sts., from Austin Eng. Co., 121 West 42nd St., $43,672. Noted May 7.

Subway—New York, N. Y.—Bd. Transportation, 49 Lafayette St., May 15, Washington Heights subway in Central Park West between 78th and 88th Sts., from A. A. Johnson Corp., 3rd St. and West Ave., Long Island City, $3,651,000. Noted May 7.

Conduit—Baltimore, Md.—Bd. Awards, 100,000 ft. (more or less) single vitr. clay conduit, from Western Electric Co., South St., $0.1075.

Street Lighting System—Redondo Beach, Calif. — Street lighting system on Beryl, Opal Sts., etc., from Underground Construction Co., 517 South Bway., Pasadena, $74,775. Noted Apr. 9.

CONTRACTS AWARDED

Borings—New York—Bd. Transportation, 49 Lafayette St., New York City, land and river borings in East River from Wall St. (Manhattan) to Cranberry St. (Brooklyn) Route 101, from Rutgers St. (Manhattan) to Jay St., (Brooklyn) Route 103, and from 53rd St. (Manattan) across Welfare Island to Nott Ave. (Queens) Route 104, Newtown Creek, at Van Alst Ave. (Queens) Route 107 E, to Pennsylvania Drilling Co., 1812 West Carson St., Pittsburgh, Pa., $44,970. Noted May 14.

Mechanical Equipment — Long Island City, N. Y.—Bd. Educ., 500 Park Ave., New York City, mechanical equipment, heating and ventilating apparatus for Jamaica High School, Grand and Chapin Aves., here, to Shevlin Eng. Co., 110 West 34th St., New York City, $238,250. Noted Apr. 30.

Subway—New York, N. Y.—Bd. Transportation, 49 Lafayette St., constructing Sect. 6 B, of Route 78, along and under West 173rd St., to Moranti & Raymond, 42 Bway., $151,900. Noted May 14.

Fill—Phila., Pa.—G. W. Biles, dir. Dept. Pub. Wks., fill for municipal stadium, east of Broad St. and Pattison Ave., to Keystone State Constr. Co., Franklin Bank Bldg., 40,000 cu.yd. at 0.62 per cu.yd., total $248,000; to Lewis and Slevin, 234 South 44th St., 30,000 cu.yd. at $0.98 per cu.yd., total $29,400. Noted Apr. 9.

Stadium—Phila., Pa.—Dept. Pub. Wks., City Hall, 174 x 1,950 ft. rein.-con. and brick stadium, general contract on superstructure, to Turner Constr. Co., 242 Madison Ave., New York City, $1,377,800. Noted May 7.

Dock—Cornucopia, Wis.—Belle Twp., 600 ft. brick and timber dock on Lake Superior front, to Whitney Bros. Co., 909 Alworth Bldg., Duluth, $30,000.

Asphaltic Concrete — Milwaukee, Wis. — Central Bd. Purchases, 360 tons ahphaltic concrete, to Texas Co., 332 South Michigan Blvd., Chicago, Ill., at $30.60 per ton in wooden bbl. and $29.10 in steel drums.

Stadium—Milwaukee, Wis.—School Bd., F. Harbach, secy., 10th and Prairie Sts., contract for concrete work, 50 x 360 ft. rein.-con. stadium, to Dreyer Constr. Co., 1008 6th St., $56,828, carpentry, to H. Jahns, 1915 Chestnut St., $13,170; and masonry, to W. Buchholz & Co., 1081 Sherman Blvd. Noted Apr. 23.

Limestone — Minneapolis, Minn. — F. S. Gram, city purch. agt., 5,282 cu.yd. crushed limestone, to Anoka Crushed Stone Co., 1125 Plymouth Bldg., at $1.90 per cu.yd.

Road Oil—St. Paul, Minn.—H. W. Austin, city purch. agt., for 700,000 gal. road oil, to W. H. Barber Co., 1501 Franklin Ave. S. E., Minneapolis, at $.0621 per gal. Noted Apr. 2.

Gas Line—Kansas—Empire Gas & Fuel Co., Wichita, 35 mi. 10 in. welded line, 20 mi. 16 in. dresser coupling line and 1 mi. 12 in. welded line construction, to Conner & Son, 814 New York Life Bldg., Kansas City, Mo.; pipe, to Natl. Tube Co., Frick Bldg., Pittsburgh, Pa. Engrs. est. $850,000. This corrects report of May 7 issue.

Undergrade Crossing—Seattle, Wash.—See "Streets and Roads."

Grain Elevator—Portland, Ore.—Balfour Guthrie & Co., 353 Oak St., 9 story, 50 x 100 ft. grain elevator, 100,000 bu. capacity, to L. H. Hoffman, Gasco Bldg., $100,000.

Fire Alarm System—Los Angeles, Calif.—Los Angeles Co., fire alarm system in Belvedere Gardens Dist., to Brown & Pengilly, 2114 East 9th St. $66,780.

Materials

PROPOSED WORK

Pipe—Turlock, Calif.—City plans to furchase 250 ft. 8 in. Matheson patent joint pipe or equivalent, 0.158 in. thick, weight 13.405 lbs. ft. of length; 800 ft. 6 in. Matheson patent joint pipe, 0.140 in. thick, weight 8.872 lbs. per ft., all coated in and out with asphaltum.

BIDS DESIRED

Cement—Long Island City, N. Y.—May 25, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 3,000 bags Portland cement.

Crushed Stone, etc.—Cleveland, O.—May 22, by City, crushed stone and road oil. To exceed $5,000.

Road Oil—Appleton, Wis.—May 25, by E. L. Williams, city clk., 60,000 gal. road oil, 25% asphaltic content.

BIDS RECEIVED

Calcium Chloride—Toms River, N. J.—Freeholders Ocean Co., May 5, 7 car loads calcium chloride at different points, 1 car from Amer. Oil & Supply Co., 238 Wilson St., Newark, 3 cars from Dow Chemical Co., 90 West St., New York City, and 3 cars from Wing & Evans, 40 Rector St., New York City, all at $26.25 per ton.

CONTRACTS AWARDED

Steam Cinders, etc.—Brooklyn, N. Y.—J. A. Guider, boro pres., Boro Hall, 10,000 cu. yd. steam cinders, to W. P. Rourke, 259 77th St. $10,000; also 40,000 gal. gasoline, to Tidewater Oil Sales Corp., 11 Bway., New York City, $7,200. Noted May 7.

OFFICIAL PROPOSALS

Bids: June 1.

Lighting Fixtures

WESTCHESTER COUNTY HOSPITAL
Mount Pleasant, N. Y.

Proposals will be received for the furnishing and erecting of Lighting Fixtures required for the Nurses' Home and Employees' Dormitory in connection with the County Hospital in the Town of Mount Pleasant, County of Westchester and State of New York, and known as Grasslands Hospital.

Separate sealed bids or proposals will be received at the office of the Clerk of the Board of Supervisors at the Court House, White Plains, New York, until eleven a.m. (Daylight Saving), June 1, 1925.

Specifications, drawings and all information relative to the same may be procured either from Walker & Gillette, Architects, or from Fred L. Merritt, Clerk of the Board of Supervisors, Court House, White Plains, New York.

Each separate bid or proposal must be accompanied by a certified check in the sum of three per cent of the amount bid, made payable to the Treasurer of the County of Westchester, same to be forfeited to the County of Westchester as liquidated damages in the case of failure on the part of the successful bidder to enter into a contract for the execution of the work awarded to him and to furnish a satisfactory bond within five days after notice of such award.

Each successful bidder will be required to execute the contract and furnish a surety company bond in the sum equal to fifty per cent of the amount of the contract awarded to him, guaranteeing the faithful performance of the work, said contract and bond to be in the form required by the County Attorney.

All bidders must submit their proposal on the form of bid accompanying the drawings and specifications and in the manner indicated therein.

The Board of Supervisors reserves the right to reject any and all bids, or to accept any proposal which it may deem for the best interest of the County of Westchester.

THE BOARD OF SUPERVISORS OF WESTCHESTER COUNTY,
By FRED L. MERRITT,
Clerk.

Bids: May 25.

Paving

Catskill, N. Y.

The Board of Trustees of the Village of Catskill. Sealed proposals will be received by the undersigned at the Village Building, Catskill, N. Y., on Monday the 25th day of May, 1925, at one o'clock p.m., daylight saving time, for the improvement of Division Street, Catskill Village, with Reinforced Concrete, .208 Miles.

Plans, specifications, proposal forms and estimate may be seen at the Village Building, Main Street, Catskill, N. Y.

Proposals must be submitted in separate sealed envelopes with the name of the contractor on the outside.

Each proposal must be accompanied by a certified check payable to the order of the Village of Catskill for an amount equal to at least three per cent of the amount of the proposal.

The successful bidder will be required to execute the contract within ten days of date of letting.

The right is reserved to reject any or all bids.

Dated, Catskill, N. Y., May 13, 1925.

EARL C. SANDT,
President, Board of Trustees of
The Village of Catskill.

Bids: June 5.

Deepening of Headrace of Government Power Plant

EDISON SAULT ELECTRIC CO. SAULT STE. MARIE, MICHIGAN
Sault Ste. Marie, Mich.,
May 15, 1925.

Sealed proposals for deepening the headrace of the Government Power Plant, operated by this Company under lease, will be received at this office, 115 Ashmun Street, Sault Ste. Marie, Mich., until 3 p. m. (Central Standard Time), June 5, 1925, and then publicly opened. Full information on application.

Edison Sault Electric Co.
By THOMAS CHANDLER,
President.

OFFICIAL PROPOSALS

Bids: June 5.

Road Work

STATE DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS
Albany, N. Y.

Sealed proposals will be received by the undersigned at the office No. 55 Lancaster Street, Albany, N. Y., until one o'clock p.m. advanced standard time, which is twelve o'clock noon eastern standard time, on Friday, June 5, 1925, for the construction of roads in the following counties:

CATTARAUGUS.....(one highway: 1.91 miles)
CAYUGA..(two highways: 3.37 & 3.45 mi.)
CHEMUNG.....(one highway: 1.96 mi.)
CHENANGO.....(one highway: 6.78 mi.)
GENESEE.....(one highway: 3.51 mi.)
KINGS.....(one highway: 8.02 mi.)
MONTGOMERY..(one highway: 7.22 mi.)
NASSAU.....(one highway: 16.30 mi.)
OSWEGO.....(one highway: 3.45 mi.)
QUEENS.....(one highway: 8.02 mi.)
ULSTER.....(one highway: 1.01 mi.)

Also for the reconstruction of the following:

DUTCHESS.....(one contract: 2.89 miles)
FRANKLIN.....(one contract: 6.48 mi.)
MONROE.....(one contract: 4.65 mi.)
ONEIDA.....(one contract: 4.66 mi.)
OSWEGO.....(one contract: 2.00 mi.)
ROCKLAND.....(one contract: 2.67 mi.)
SULLIVAN.....(one contract: 6.95 mi.)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Bureau in Albany, N. Y., and also at the office of the division engineers in whose division the roads, to be constructed or reconstructed, are located. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

A. W. BRANDT,
Commissioner of Highways.

Bids: June 8

Materials

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the following highway maintenance materials:

Ready Mixed White Lead Paint; ready mixed Red Lead Paint; and Ready mixed black Graphite Paint, in the following approximate quantities:

3250 Gallons Ready Mixed White Lead Paint
500 Gallons Ready Mixed Red Lead Paint.
400 Gallons Ready Mixed Black Graphite Paint.

Bids will be received at the offices of the State Highway Commission, Broad Street Bank Building, Trenton, New Jersey, on Monday, June 8th, 1925, at eleven o'clock (11:00 a.m.), Standard Time, and opened and read immediately thereafter.

Points of delivery and other details will be furnished upon application to A. W. Muir, Superintendent of Maintenance, Room No. 820, Broad Street Bank Building, Trenton, New Jersey.

Specifications, form of bid, special addressed envelope and conditions under which bids will be accepted for the above are on file in the office of A. W. Muir, Superintendent of Maintenance, Room No. 820 Broad Street Bank Building, Trenton, New Jersey, and may be obtained upon request. Bids must be made on the proposal forms furnished, in the manner designated therein, and as required by the specifications, same to be enclosed in sealed special addressed envelopes which will be furnished each bidder with the bid blank, bearing the name and address of the bidder on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Bids not submitted on the standard proposal form or enclosed in other than the special envelope will be considered informal and will be rejected.

The State Highway Commission reserves the right to reject any or all bids.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

OFFICIAL PROPOSALS

Bids: June 9.

Bridge

Media, Pa.

Sealed proposals will be received at the Controller's office Media, Pa., on Tuesday June 9th, 1925 until 11:00 a. m. (Daylight Saving Time) for furnishing all tools, labor and equipment necessary to construct Bridge No. 185 known as West Ninth Street Bridge, over Chester River, Chester, Pa., to consist of a reinforced concrete arch one hundred and sixty (160) foot span, to replace present steel through truss.

Bids from others than those engaged or established in business for which proposals are asked will not be entertained and no bid will be entertained unless made out on printed blank forms furnished by the County Commissioners.

All bids must be accompanied by a certified check for ten (10) per cent of the amount bid. All checks must be drawn to the order of the Commissioners of Delaware County.

Plans and specifications can be had by applying at the office of the County Controller Media, Pa.

All bidders desiring a set of plans and specifications shall deposit Ten (10) Dollars with the County Controller, which amount will be refunded if plans and specifications are returned within one week after the opening of bids.

Also—

At the same time and place forty (40) Ballot Check Lists and forty (40) Voting Check Lists for the City of Chester. Samples can be seen by applying at the County Commissioners' office, Media, Pa.

The County Commissioners reserve the right to reject any or all bids.

GEORGE T. WADAS,
County Controller.

Bids: June 8

Core Borings

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the following:

For approximately 2,250 lin.ft. of casings to be sunk to rock through water, and 250 lin.ft. of diamond drill core borings in rock under water; 5,850 lin.ft. of casings sunk to rock on land, and 650 lin.ft. of diamond drill core borings in rock; 900 lin.ft. of diamond drill cores preserved; 800 dry samples taken and preserved, and 60 holes in and near the river to be grouted. The borings to be performed on the line of State Highway Route No. 1 Extension between the Hudson Boulevard in Jersey City and Doremus Avenue, Newark, in the counties of Essex and Hudson, State of New Jersey.

Bids will be received at the office of the State Highway Department, 9th floor Broad Street Bank Building, Trenton, New Jersey, on Monday, June 8, 1925, at eleven o'clock (11:00 a.m.), Standard Time, and opened and read immediately thereafter.

Drawings, specifications and form of bid for the proposed work are on file in the office of the State Highway Department, Trust Company of New Jersey Building, Jersey City, New Jersey, and may be obtained upon application at that point. Bids must be made on the proposal forms furnished in the manner designated in the specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and name and location of the work on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten percent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00, and be delivered at the office of the State Highway Commission, 9th floor, Broad Street Bank Building, Trenton, New Jersey, on or before the hour named.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of the said specifications, conditioned for the faithful performance of the provisions of the contract and specifications.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

CONSTRUCTION NEWS

Engineering News-Record, May 28, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Water supply, Oakland, Calif., East Bay Utility Dist. made plans for several units of mountain water supply, total $25,000,000.

Y. M. C. A., Detroit, Mich., Y. M. C. A. plans building, $5,500,000.

Waterworks, Youngstown, O., plans new system, $5,000,000.

Road work, Sherman, Tex., Grayson, Tex., plans road work, $4,500,000.

Schools, Cleveland, O., plans new schools, $3,865,000.

Rock jetty, Long Beach, Calif., plans rock jetty at harbor entrance, $3,646,000.

Office, New York, N. Y., A. Heckscher plans office building, $3,000,000.

Schools, Knoxville, Tenn., voted for schools, $2,500,000.

Road work, Uniontown, Pa., Fayette Co. voted $2,500,000 bonds for roads.

Office, Detroit, Mich., Maccabees plan building, $2,500,000.

Cement plant, San Andreas, Calif., Calaveras Cement Co. plan plant, $2,000,000.

Road work, North Carolina, State Hy. Comm. plans road work, $1,832,500.

School, Tulsa, Okla., Catholic Prep. School plans school, $1,500,000.

Schools, Detroit, Mich., Bd. Educ. plans buildings, $1,468,000.

Roads, San Rafael, Calif., Marin Co. plans bonds, $1,250,000.

Bids Wanted on Big Jobs

High school, San Francisco, Calif., Bd. of Pub. Wks., July 1, $2,500,000.

Approaches, etc., Point Bridge (mail Pittsburgh), Pa., Comrs. Allegheny Co., June 3, $2,325,000.

Chapel, Weston, Mass., Scholasticate Society of Jesus taking bids, $1,000,000.

Levee, Edinburg, Tex., Hidalgo Co. after June 1, $1,000,000.

Large Contracts Let During Week

Office, Springfield, Mass., Massachusetts Mutual Life Insurance Co. to Turner Constr. Co. of Boston, $3,000,000.

Dam, Newburg, Ind., U. S. Eng. Office to U. G. I. Constr. Co., $2,359,218.

Office and theater, St. Louis, Mo., Skouras Bros. to Boaz-Kiel Constr. Co., $2,300,000.

Plant, Pontiac, Mich., Wilson Foundry & Machine Co. to Pryale Constr. Co., $1,000,000.

Lodge and hotel, Detroit, Mich., Wayne Lodge, Pythian Castle Assn., to O. Misch Co., $1,000,000.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
June 1	Towson, Md.	May 14
	Adv. May 14 to 28.	
June 1	Mt. Pleasant, N. Y.	May 14
	Adv. May 14 to 28.	
June 1	Lawrence, Mass.	May 14
June 1	Arlington, N. Y.	May 21
June 1	Phila., Pa.	May 28
June 1	Green Bay, Wis.	May 28
June 1	Lawrence, Mass.	May 28
June 1	Milgrove, N. J.	May 28
June 2	St. Paul, Minn.	May 28
June 2	Pierre, S. D.	May 21
June 3	Burnsville, N. C.	May 28
	Adv. May 28.	
June 3	Carthage, Ill.	May 28
June 4	Dilley, Tex.	May 28
June 4	Columbus, Miss.	May 28
June 6	Jackson, Ky.	May 28
June 8	Gainesville, Fla.	May 21
June 8	Okeechobee, Fla.	May 21
	Adv. May 21 and 28.	
June 9	Montclair, N. J.	May 28
	Adv. May 28.	
June 11	Marion, Ky.	May 28
	Adv. May 28.	
June 12	Wewoka, Okla.	May 28
June 15	Tuscaloosa, Ala.	May 21
	Adv. May 21 and 28.	
June 17	Willard, N. Y.	May 28
	Adv. May 28.	
June 24	Greenville, S. C.	May 21
	Adv. May 21 and 28.	
	SEWERS	
May 29	Boston, Mass.	May 28
June 1	River Grove, Ill.	Apr. 23
June 1	Deerfield, Ill.	Apr. 23
June 1	Little Falls, N. J.	May 14
June 1	Boston, Mass.	May 28
June 1	Euclid, O.	May 28
June 1	West Bend, Wis.	May 28
June 3	Cleveland, O.	May 28
June 4	New York, N. Y.	May 28
June 5	Lackawanna, N. Y.	May 14
June 5	Gettysburg, Pa.	May 28
	Adv. May 28.	
June 8	Maryland	May 21
	Adv. May 21 and 28.	
June 8	Boston, Mass.	May 28
June 8	San Fernando, Calif.	May 28
June 9	St. Louis, Mo.	May 21
June 9	Mt. Pleasant, N. Y.	May 21
	Adv. May 21 and 28.	
June 9	Montclair, N. J.	May 28
	Adv. May 28.	
June 9	Holdredge, Wis.	May 28
June 10	Norfolk, Va.	May 28
June 15	New Castle, Pa.	May 28
	Adv. May 21 and 28.	
June 16	Salisbury, Md.	May 14
	Adv. May 14 to 28.	
June 16	Clewiston, Fla.	May 21
	Adv. May 21 and 28.	
June 16	Wheaton, Ill.	May 28
	WASTE DISPOSAL	
June 2	Tampa, Fla.	May 28
	BRIDGES	
June 1	New Jersey	May 21
	Adv. May 21 and 28.	
June 1	Hastings, N. Y.	May 21
June 1	Sarasota, Fla.	May 28
June 2	Chicago, Ill.	May 28
June 2	Gadsden, Ala	May 14
June 2	Gulfport, Miss.	May 21
June 2	Massachusetts	May 28
June 2	Maryland	May 28
	Adv. May 28.	
June 3	Minnesota	Apr. 30
June 3	Point Bridge (mail Pittsburgh, Pa.)	May 28
June 4	Paris, Tex.	May 28
June 4	Hugo, Okla.	May 28
June 4	Columbus, Miss.	May 28
June 5	Missouri	May 28
June 8	Gloucester, N. J.	May 28
	Adv. May 28.	
June 9	Washington, D. C.	May 14
June 9	Chester, Pa.	May 21
	Adv. May 21 and 28.	
June 9	Bastrop, La.	May 28
June 16	Louisiana	May 28
June 17	Alabama	May 21
June 30	Tampa, Fla.	May 28
	Adv. May 28.	
	RAILWAYS	
June 1	Ontario	May 28
June 2	Massachusetts	May 28
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
June 1	Seminole, Okla.	May 28
June 2	Louisville, Miss.	May 28
June 5	Saulte Ste. Marie, Mich.	May 21
	Adv. May 21 and 28.	
June 6	Cairo, Ill.	May 28
June 15	Leesburg, Fla.	May 14
	Adv. May 14 to 28.	
	STREETS AND ROADS	
May 29	New Hampshire	May 28
May 30	Regina, Sask.	May 28
June 1	Ontario	May 21
June 1	Duluth, Minn.	Mar. 12
June 1	Lisbon, O.	May 7
June 1	Welland, Ont.	May 14
June 1	New Jersey	May 21
	Adv. May 21 and 28.	
June 1	New York	May 21
	Adv. May 21 and 28.	
June 1	Bristol, R. I.	May 28
June 1	Gardner, Mass.	May 28
	Adv. May 28.	
June 1	Spencer, W. Va.	May 28
June 1	Huntington, W. Va.	May 28
June 1	Watertown, Wis.	May 28
June 1	Port Hope, Ont.	May 28
June 1	Ontario	May 28
June 2	Louisiana	May 28
June 2	Louisiana	May 14
June 2	Akron, O.	May 21
June 2	Anderson, Tex.	May 21
June 2	St. Louis, Mo.	May 21
June 2	North Dakota	May 21
June 2	Ft. Scott, Kan.	May 28
June 2	Minnesota	May 28
June 2	Elbow Lake, Minn.	May 28
June 2	Louisiana	May 28
June 2	Wisconsin	May 28
June 2	Boston, Mass.	May 28
June 2	Massachusetts	May 28
June 2	Fort Scott, Kan.	May 28
June 2	Maryland	May 28
	Adv. May 28.	
June 3	Ocean Grove, N. J.	May 21
	Adv. May 21 and 28.	
June 3	North Dakota	May 21
June 3	Alabama	May 21
June 3	Mendenhall, Miss.	May 28
June 3	Wisconsin	May 28
June 3	Baltimore, Md.	May 28
June 4	Cedar Rapids, Ia.	May 28
June 4	Marion, O.	May 28
June 4	Virginia	May 21
June 4	Highland Park, Ill.	May 28
June 5	Cameron, Tex.	May 21
June 5	New York	May 28
	Adv. May 21 and 28.	
June 5	Missouri	May 28
June 5	Roselle Park (Ind. Br. Elizabeth), N. J.	May 28
	Adv. May 28.	
June 8	Kentucky	May 21
June 8	New Jersey	May 28
	Adv. May 21 and 28.	
June 8	California	May 28
June 8	Bucoda, Wash.	May 28
June 8	Southmont, Pa.	May 28
June 8	Lambertville, N. J.	May 28
June 8	San Diego, Calif.	May 28
June 9	St. Louis, Mo.	May 28
June 9	Washington	May 28
June 9	Holdrege, Neb.	May 28
June 9	Seattle, Wash.	May 28
June 9	North Carolina	May 28
	Adv. May 28.	
June 10	Duluth, Minn.	Apr. 9
June 10	Corning, Calif.	May 28
June 14	Moundsville, W. Va.	May 28
June 15	Anderson, Ind.	May 28
June 15	Crestview, Fla.	May 28
June 15	Minneapolis, Minn.	May 28
June 17	Phila., Pa.	May 21
	Adv. May 21 and 28.	
June 19	Farmington, Mo.	May 28
	Adv. May 28.	

Bids Close		See Eng. News-Record

BUILDINGS—INDUSTRIAL

June 1	Duluth, Minn.	May 21
June 1	Fayetteville, Ga.	May 28
June 10	Superior, Wis.	May 21

BUILDINGS—COMMERCIAL

June 1	East Boston (Boston P. O.), Mass.	May 21
June 1	Shreveport, La.	May 28
June 2	Dover, Del.	May 28
June 2	Walters, Okla.	Apr. 23
June 3	Miller, S. D.	May 14
June 3	Central Islip, N. Y.	May 14
June 4	Wash., D. C.	May 28
June 8	Erie, Pa.	May 28
June 10	Merrill, Wis.	May 28
June 16	Newkirk, Okla.	May 28
June 17	Marcy, N. Y. Adv. May 28.	May 28
July 14	Phila., Pa.	Feb. 19
July 15	Brooklyn, N. Y.	May 21

BUILDINGS—EDUCATIONAL, RELIGIOUS

May 29	Wash., D. C.	May 14
June 1	Harrisburg, Pa.	May 14
June 1	Cleveland, O.	May 21
June 2	Dayton, O.	May 14
June 2	Waukegan, Ill.	May 28
June 3	Baltimore, Md.	May 28
June 4	Jamaica, N. Y.	May 28
June 5	Bridgewater, Mass.	May 28
June 7	Worcester, Mass.	May 28
June 10	Evanston, Ill.	Apr. 23
June 10	Burlington, Vt.	May 28
July 1	San Francisco, Calif.	May 28

FEDERAL GOVERNMENT WORK

June 1	Earthwork — Memphis, Tenn.	May 28
June 2	Steel, etc.—Wash., D. C.	May 28
June 3	Paving—Mare Island, Calif.	May 28
June 4	Post Office—Hinton, W. Va.	May 14
June 8	Boilers — Portsmouth, N. H.	May 14
June 8	Post Office—Ellsworth, Me.	May 14
June 9	Alterations—Minneapolis, Minn.	May 28
June 10	Boilers—Burlington, Vt.	May 14
June 10	Buildings, etc.—San Diego, Calif.	May 14
June 10	Remodeling—Pittsburgh, Pa.	May 21
June 10	Road—Point St. George, Calif.	May 28
June 11	Post Office — Vineland, N. J. Adv. May 21 and 28.	May 21
June 11	Breakwaters—Ohio Adv. May 21 and 28.	May 21
June 13	Stone—San Francisco, Calif.	May 28
June 15	Barge—Montgomery, Ala. Adv. May 21 and 28.	May 21
June 15	Road—Colorado	May 21
June 15	Road—Montana	May 28
June 16	Heating Plant—Mobile, Ala.	May 21
June 16	Electric Light Plant—Brunswick, Ga.	May 21
June 16	Fire Alarm System—Whipple Barracks, Ariz.	May 21
June 16	Cable, etc.—Whipple Barracks, Ariz.	May 21
June 16	Structures—Powell, Wyo.	May 28
June 17	Hospital and Quarters—New Orleans, La. Adv. May 28.	May 28
June 17	Heating System—New Orleans, La.	May 21
June 18	Incinerator—New Orleans, La.	May 21
June 18	Pier—Rosebank, N. Y. Adv. May 28.	May 28
June 19	Remodeling—Norwich, Conn.	May 21
June 22	Post Office—Missoula, Mont.	May 28
June 22	Post Office—Holly Springs, Miss.	May 28
June 23	Sewers—Baltimore, Md.	May 28
June 23	Quarters—Memphis, Tenn.	May 28
June 24	Post Office—Patterson, N. J. Adv. May 28.	May 28
June 25	Post Office—New London, Conn. Adv. May 28.	May 28
June 25	Post Office—St. Petersburg, Fla.	May 28
July 7	Bridges, Florence, Ala. Adv. May 21 and 28.	May 28
July 29	Hospital—Canacao, P. I.	May 21

UNCLASSIFIED

May 29	Inspection Shed—Long Island City, N. Y.	May 21
June 4	Underground cable—Brooklyn, N. Y.	May 28
June 4	Cable—New York, N. Y.	May 28
June 4	Pier—Brooklyn, N. Y.	May 28
June 5	Transmission Line —Oklahoma	May 28
June 5	Special Work—New York	May 28
June 8	Core Borings—New Jersey. Adv. May 21 and 28.	May 28
June 9	Underpass—Ocala, Fla.	May 28
June 9	Wharf Repairs—Baie St. Paul, Que.	May 28
June 9	Stadium—West Allis, Wis.	May 28
June 9	Dock Repairs—Kincardine, Ont.	May 28
June 9	Dock—Baton Rouge, La.	May 28
June 10	Station Finish—Long Island City, N. Y.	May 28
June 11	Dock, etc.—Baton Rouge, La.	May 21
June 16	Electrical and Refrigerating Equipment — New York, N. Y.	May 21
June 17	Heating System—Geneva, N. Y. Adv. May 21 and 28.	May 21

MATERIALS

June 2	Sand, etc.—Minneapolis, Minn.	May 28
June 3	Iron Pipe—Steelton, Pa. Adv. May 28.	May 28

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Ga., Macon — Soon takes bids steel and concrete reservoir. Fuller & McClintock, 170 Bway., New York City, engrs.

Tenn., Algood — Plans election $35,000 bonds for new waterworks. W. J. Swallows, Algood, engr.

Tenn., Clinton—Plans new waterworks. $50,000. Engineer not selected.

O., Columbus—See "Streets and Roads."

O., Youngstown—Plans new waterworks to be developed from source other than Mahoning River. $5,000,000. Engineer not selected.

Ill., Kewanee—See "Streets and Roads."

Neb., Greenwood—Election May 26, $24,000 bonds, waterworks and distribution system. Grant, Fulton & Letton, 525 South 13th St., Lincoln, engrs. Noted Mar. 12.

Tex., Big Springs — Making preliminary plans waterworks extensions, incl. additional mains, pumping equipment, etc. Montgomery & Ward, Wichita Falls, engrs. Noted May 7.

Tex., Houston — Voted $750,000 bonds, waterworks improvements. J. C. McVey, city engr.

Tex., Laredo—Texas Central Power Co., Laredo, purchased Laredo Waterworks System and Consumers Ice & Fuel Company's plans and plans new waterworks, power house, pumping equipment, etc. $60,000. Private plans.

Tex., Nordheim—Plans waterworks improvements, incl. mains, pumping equipment, etc. $30,000 or more. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Apr. 2.

Tex., Victoria—Voted $90,000 bonds, for waterworks and electric light plant. S. S. Sitterle, city atty. Noted Apr. 16.

Okla., Comanche — Making preliminary plans new well supply motor driven pumps and additional storage facilities for water plant. $30,000. Engineer not selected.

Okla., Healdton — Making preliminary plans 2 new deep wells, 800 lin.ft. 6 in. c.i. mains, etc. $20,000. C. Coon, 1520 North Bway., Oklahoma City, engr.

Okla., Okeene — Making surveys motor driven triplex pump, 6,900 ft. 4- to 8-in. c.i. mains, etc., in various streets. $18,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr.

Wash., Centralia — City Comn. making plans new reservoir, rebuilding parts of gravity pipe line, and improving distribution system. $100,000. N. W. Anery, city engr. Noted Apr. 2.

Wash., Snohomish—Making plans 1 m.g. reservoir and improving present waterworks. Miller Eng. Co., Burke Bldg., Seattle, engrs.

Calif., Cutler—Cutler Public Utility Dist., making plans domestic water system, 19,000 ft. trench; 8, 6, 4, and 2, and ¾ in. pipe line; wells, pumping equipment, elevated or pressure tank, etc. Switzer & Moye, Visalia, engrs. Noted Dec. 4.

Calif., Needles — Voted $108,000 bonds, purchase and improve present waterworks system. Burns-McDonell-Smith Eng. Co., Marsh-Strong Bldg., Los Angeles, engrs.

Calif., Oakland—East Bay Utility Dist. made plans following units of mountain water supply, for East Bay Cities, Mokelumne River Project: aqueduct from San Joaquin River to San Pablo Reservoir, 35 mi., 60 to 63 in. steel pipe line, 4 mi. tunnels, 8½ ft. diam. horseshoe shape $8,500,000; Lancha Plana Reservoir, on Mokelumne River, 525 ft. high, 1,000 ft. long on top, to have long weir spillway, with elaborate outlet works, etc., to impound 200,000 ac.ft. to supply 50 m.g. water daily capacity, incl. 400,000 cu.yds. concrete; Arroyo Seco Reservoir, long low earth type, on Dry Creek, about 85 ft. high, 1,000,000 cu.yds. earth fill with rock crushed or concrete face, 10 mi. concrete pressure pipe, 60- to 72-in. diam., pumping plant with 200 to 300 ft. lift near Pittsburgh; and 4 mi. railroad from Valley Springs to Lancha Plana Dam, total $25,000,000. A. P. Davis, 505 17th St., engr. Noted Nov. 13.

Ont., Hamilton—Plans addition to pumping station. $250,000. W. McFaul, city engr.

B. C., New Westminister—Plans 15 mi. 14 in. steel mains from Coquitlam Lake to city, to reorganize water system. $750,000.

BIDS DESIRED

Mass., West Springfield—Water Dept., Town Hall, taking bids ditching, laying and backfilling about 12,000 ft. 10 in. Universal water pipe through river, Norman and Bridge Sts.

N. Y., Millgrove—June 1, by T. H. McElven, purch. agt., 263 Terrace, Buffalo, 2 steel water towers, at County Home, here. $35,000.

N. Y., Willard—June 17, by State Hospital Comn., Albany, water supply for fire protection at Willard State Hospital. S. W. Jones, Albany, state archt.; adv. E. N.-R. May 28.

N. J., Montclair—June 9, by Bd. Comrs. Municipal Bldg., Bloomfield Ave. and Valley Rd., emergency pumping station, force main, etc., in Willowdale Ave., etc. Metcalf & Eddy, 14 Beacon St., Boston, Mass., engrs.; adv. E. N.-R. May 28.

Pa., Phila.—June 1, by Dept. Pub. Wks., Bureau Water, Power equipment for Queens Lane Extension, Contr. 739, railroad siding, Contr. 758; and parts for low pressure fire hydrants, Contr. 759; copper, tin and zinc ingots, Contr. 760. G. H. Biles, dir.

N. C., Burnsville — June 3, by M. A. Bailey, mayor, and Bd. Alderman, at office J. P. Lyon, town clk. and treas., 6 mi. 6 in. and ½ mi. 8 in. c.i. mains, 500,000 gal. filtration plant, etc. W. H. Booker, Charlotte, engr.; adv. E. N.-R. May 28.

Ga., Fayetteville—See "Buildings—Industrial."

Miss., Columbus—June 4, by City Clerk, 25,600 ft. c.i. pipe, 320,000 gal. concrete coagulation basin, 200,000 gal. tank on tower also 8,800 ft. sanitary sewers in various streets. R. L. Totten, Inc., 1414 North 30th St., Birmingham, Ala., engr.

Ky., Jackson—June 6, by Jackson Water Co., 27,500 ft. 6- to 10-in. mains, valves, hydrants, etc. A. B. Hargis, Jellico, Tenn., engr.

Ky., Marion—June 11, by Mayor and Bd. Pub. Wks., waterworks improvements. H. K. Bell, 418 Hernando Bldg., Lexington, engr.; adv. E. N.-R. May 28.

Ill., Carthage — June 3, by City Clerk, earth dam with concrete spillway, concrete coagulation basin, clear well, brick filter building, pumps and piping, 5,510 ft. 8 in. force mains, 80,000 gal. tank on tower, pumping equipment, etc. $132,000. Caldwell Eng. Co., Jacksonville, engrs. Noted Feb. 5.

Wis., Green Bay—June 1, by J. Du Charne, c/o Hotel Northland, clk. Allouez Twp., 50 hydrants, eleven 8 in., eleven 10 in. and forty-eight 6 in. valves and 70 valve boxes for use in connection with new water system. McMahon & Clark Eng. Co., Menasha, engrs.

Wis., Wisconsin Rapids—C. P. Gross, mgr. Water & Electric Dept., taking bids two 6 in., four 12 in. and two 14 in. hydraulic valves for iron removal plant. W. G. Kirchoffer, 22 North Carroll St., Madison, engr.

Minn., St. Paul—June 2, by G. J. Ries, aud. Ramsey Co., sinking 3 or 4 tubular wells at Bald Eagle, White Bear and Owassa Lakes. $15,000. P. N. Coates, 900 Guardian Life Bldg., engr.

Tex., Dilley—June 4, by Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, waterworks system, incl. distribution system, 50,000 gal. capacity elevated tank, pumping equipment, etc. $30,000. Noted May 14.

Tex., Killeen—Municipal Eng. Co., engrs., Praetorian Bldg., Dallas, taking bids drilling, casing and completing 8 in. well, 800 ft. deep, for City. $12,000. Noted Mar. 5.

Waterworks (Continued)

Okla., Wewoka—June 12 (extended date), by D. R. Fraser, city clk., City Hall, 14,700 ft. 6 in. and 11,700 ft. 4 in. c.i. mains, also 32,900 ft. 8- to 15-in. vitr. clay and 168 ft. c.i. sewers, etc., in various streets. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 30.

Ont., Toronto—See "Sewers."

BIDS RECEIVED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, May 22, mains in 9th and Hegeman Aves., Avenue I, 53rd and East 93rd Sts., from N. DeStefano, 257 Glenn Ave., Tompkinsville, and L. Bignalo, $78,813. Noted May 14.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, May 20, mains in Queens Blvd., here, from Paladino Contg. Co., 437 East 120th St., New York City, $116,729. Noted May 14.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, May 19, from J. A. Gregory, 351 East 124th St., New York City, mains in East Willston, 83rd, 86th and 91st Aves., 246th, 247th, 257th, 258th, 259th, 260th, 261st, 262nd and 263rd Sts. $48,393, Constantia, Columbia, Luther and Pettit Places, 43rd and 76th Rds., Moore, Meade, 87th, 148th, 155th, 160th, 161st, 162nd and 164th Sts., Fosdick, Lafayette, Metropolitan, Mt. Olivet, 58th, 32nd, 33rd, 59th and 77th Aves. $11,275. Noted May 14.

Mo., Independence—Independence Water Co., 206 North Liberty St., 2 m.g. reservoir and feeder mains to connect with Kansas City water supply, from C. L. Johnson, Warrensburg, $42,994.

Wash., Seattle—Bd. Pub. Wks., 9,555 ft. 8- and 12-in. c.i. mains, etc., in 46th Ave. S. W., from V. Ramagalia, 4516 1st St. N. E., $25,855. Engrs. est. $29,070.

CONTRACTS AWARDED

Mass., Reading — Bd. Selectmen, storm watermain from John to Main Sts., to A. Cefalo, 316 Belgrade Ave., Rosindale. Engrs. est. $15,000. Noted Mar. 5.

Pa., Red Lion—Red Lion Water Co., concrete standpipe, 4 mi. c.i. force mains, storage dam and reservoir, also pumping station and filter plant, to Gannett, Seeyle & Fleming Engrs. Inc., North Market Sq., Harrisburg, $250,000.

La., Bossier City—Town Council, waterworks and sewers in various streets, to Jones Contg. Co., Shreveport, $137,841. Noted Apr. 30.

La., Donaldsonville—Bd. City Comrs., filtration plant, to J. C. McCrary, Atlanta, Ga., $54,498; erecting 75,000 gal. tower tank, to R. D. Cole Mfg. Co., Newman, Ga., $4,675. Noted, Apr. 30.

O., Columbus—Franklin Co., 12,400 ft. 6-8-in. mains in Sewer Dist. Truro 1, Contr. 5, to B. Canini, 1705 Shawnee Ave., $21,389.

Wis., Wisconsin Rapids — C. P. Cross, city mgr., 61 x 71 ft., brick and rein.-con. iron removal plant, filters, etc., to Schafer & Olson, 222 Bay St., Chippewa Falls, $22,000. Noted Apr. 23.

Mo., Ash Grove—F. D. Connor, city clk., deep well, to Sewell Well Co., 901 Howard St., St. Louis; pipe line, etc., to W. F. Plummer, R. F. D. 6, Melville Rd., Springfield; tank on tower, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill. Engrs. est. $50,000. Noted Feb. 19.

B. C., Vancouver—City Clerk, City Hall, 14 mi. 36 in. riveted steel water mains to Vancouver Eng. Wks., 6th Ave. and Cambie St., $500,324. Noted May 21.

Sewers

PROPOSED WORK

Mass., Boston—Plans sewerage works in Cambridge and Court Sts. $109,276. J. A. Rourke, comr. Pub. Wks.

Mass., Cambridge — City Council appropriated $30,000 for separate system of sewers for surface water in various streets. Private plans.

Fla., Cocoa — Voted $25,000 bonds, for water and sewer mains in various streets. H. G. Brunson, city clk.

Ala., Montgomery — Plans 4 ft. storm sewers in Bellview Ave. $25,000. J. W. Garrett, city engr.

Tenn., Cookeville — Plans 5 mi. outfall and sanitary sewers in all streets. $35,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Ky., Fulton — Making preliminary plans disposal plant 9 mi. outfall sewers in various streets, etc. $100,000. Engineer not selected.

O., Columbus—See "Streets and Roads."

Ill., Mt. Olive—Revising plans system of combined sewers in eastern part of city. $90,000. Holbrook, Warren & Van Praag, 416 Millikin Bldg., Decatur, engrs.

Wis., Cudahy—C. H. Wolbert, city clk., soon takes bids probably vitr. outfall sewer in Van Norman Ave. $40,000. R. A. Steinbagen, 845 38th St., Milwaukee, engr. Noted Jan. 29.

Ia., Ft. Dodge—Making preliminary plans sewage disposal plant, etc. $250,000. C. E. Reynolds, City Hall, engr.

Mo., Concordia—Election June 1, $500,000 bonds sanitary sewerage system. E. T. Archer & Co., 612 New England Bldg., Kansas City, engrs. Noted Apr. 2.

Mo., St. Louis—Making preliminary plans Camp Springs tunnel relief sewer to connect with Mill Creek sewer, $550,000; 2nd section of North Baden Relief sewer, $200,000; and branch and lateral sewers of Ohio-Montrose main sewers, $100,000. W. W. Horner, City Hall, engr.

Ark., Blytheville — Making preliminary plans 2 mi. sanitary sewers in Dist. 4. $30,000. A. S. Madding, Bertig Bldg., engr.

Tex., Rockwell — Voted $37,500 bonds, sewerage system. Municipal Eng. Co., 602 Praetorian Bldg., Dallas, engrs.

Okla., Okeene—Plans 6 mi. outfall sewers and disposal plant. 45,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Tulsa—Plans extending 20,000 ft. 8- to 15-in. concrete sewers, etc., in Dists. 221 and 222. $277,000. C. Schultz, City Hall, Tulsa, engr.

Okla., Wilson—Voted $26,000 bonds, new sewage disposal plant. H. T. Brown, Wilson, engr.

Wash., Kelso — Election soon $50,000 bonds 3 treating plant for sewage; and plans new sewerage system with trunks and laterals, etc., $95,000 to $100,000.

Calif., Berkeley—Defeated $140,000 bonds for storm sewers in various streets. Noted Apr. 9.

Calif., El Segundo—Voted $375,000 bonds, sewers in various streets. R. T. Hutchins, city engr.

Calif., Petaluma — Defeated $200,000 bonds for sewer improvements. Noted Apr. 23.

Calif., San Pablo — San Pablo Sanitary Dist., made plans 3 mi. 6 in. vitr. sewers, etc., various streets. R. L. Calfee, 221 South 22nd St., Richmond.

BIDS DESIRED

Mass., Boston — May 29, by Dept. Pub. Wks., sewerage works in River St., Hyde Park, and Western Ave., Brighton. $25,000. J. A. Rourke, Comr.

N. Y., New York—June 4, by H. Bruckner, pres. Bronx Boro. 3rd and Tremont Aves., sewers in Pelham Parkway, Hull, Wallace, Holland, Popham, Edison, Burr and Westchester Aves.

N. J., Montclair—June 9, by Bd. Comrs., Municipal Bldg., Bloomfield Ave. and Valley Rd., 2 motor driven, centrifugal sewage pumping units in Willowdale Ave. Metcalf & Eddy, 14 Beacon St., Boston, Mass., engrs.; adv. E. N.-R. May 28.

Pa., Gettysburg — June 5, by Boro, at Boro Council Chamber, East Middle St., Fire House, outfall sewer and sewage treatment plant, etc. Banks & Craig, State Chamber of Commerce Bldg., Harrisburg, engrs.; adv. E. N.-R. May 28.

Pa., New Castle—June 15, by C. Zeigler, city clk., City Bldg., sewage disposal treatment works, Taylor Twp., Lawrence Co. F. F. Miller, city engr.; adv. E. N.-R. May 28.

Va., Norfolk—June 10, at office of W. H. Taylor, dir. Pub. Wks., Municipal Bldg., terra cotta, sewers, etc. in Ballentine Pl., Fairmount and Douglas Parks; adv. E. N.-R. May 28.

O., Cleveland—June 3, by City, sewers in East 24th Pl., Brazil Rd. N. E., Lakeport Rd. N. E., Neff Rd. N. E., Maywood Ave., Williams Ave. S. E., East 71st, 114th, 142nd, 140th and 149th Sts. To exceed $100,000. R. Hoffman, City Hall, engr.

O., Euclid—June 1, by City, sanitary sewer in Dille Rd. from Euclid to St. Clair Aves. To exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ill., Wheaton—June 16, by Wheaton Sanitary Dist., sewage disposal plant, etc. A. L. Webster, Wheaton, ch. engr. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, consult. engrs.; adv. E. N.-R. May 28.

Wis., West Bend—June 1, by C. P. Heipp, secy. Bd. Pub. Wks., 650 ft. 42 in. concrete tile, 2,000 ft. 12 in. and 100 ft. 8-in. and 100 ft. 10 in. vitr. sewer pipe.

Neb., Holdrege—June 9, by I. Anderson, city clk., City Hall, 3,480 ft. 24 to 36 in. vitr. sewers, etc., in various streets. $25,000. Black & Veatch, Mutual Bldg., Kansas City, engrs.

Tex., Crowell—Devlin Eng. Co., engrs., 614 Bitting Bldg., Wichita, Kan., and Amarilla, Tex., taking bids sewerage system, here for city. $50,000. Noted Feb. 26.

Okla., Wewoka—See "Waterworks."

Calif., La Habra—June 2, by Directors La Habra Sanitary Dist., 25,630 ft., 10- to 15-in. concrete and vitr. outfall sewers, etc., in various streets. W. G. Knox, Ramona Bldg., Santa Ana, engr.

Calif., San Fernando—June 8, by City Trustees, 7,051 ft. 8- to 21-in. main intercepting sewer. Black & Veatch, Ferguson Bldg., Los Angeles, engr.

Ont., Toronto—June 1, by F. B. Goedike, engr. York Twp., 7,500 ft. 8-in. vitr. tile lateral sewers in Nairn, Earlscourt, Arlington, Boon, Teignmouth, Bloem, Blackthorne, Clovelly, Strader and Belvidere Aves., Bude St., Eversfield and Hatherly Rds., $30,000; 8,000 ft. 6-in. c.i. mains in Guy and Bude Sts., Yule, Birch, Luke, Wills and Sutherland Aves., $25,000.

BIDS RECEIVED

N. Y., Brooklyn — J. A. Guider, boro pres., Boro Hall, May 20 (*e. e. means engineer's estimate*), sewers in Clarkson Ave., from Manmill Constr. Co., 2035 Douglass St., 68.67% e. e. $70,186, East 5th St., from A. W. Matarazzo, 1163 61st St., 76.99% e. e. $8,846; East 29th St., from S. Ambrosio, 1016 60th St., 83.5% e. e. $5,306.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., May 12, Arnauld Ave. low level sewer, 5,733 ft. 12- to 21-in. terra cotta pipe, etc., from Mierswa Contr. Co., 1619 Oregon St., Oshkosh, $58,874. Noted May 7.

Colo., Denver—Dept. Impvts. & Parks, 8- to 12-in. vitr. sewer in South Side Special Sanitary Sewer 8, from R. Findlay, 801 Interstate Trust Bldg., $40,325. Engrs. est. $50,000. Noted Apr. 2.

CONTRACTS AWARDED

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers, etc., in Cornell Ave., to C. W. McDonald, 1910 Webster Ave., $538,166; in East 242nd St., to Spadaro & Turiano, 3185 East Tremont Ave., $4,718. Noted May 21.

Pa., Pittsburgh—City, 1,900 ft. 42 in. and 3,912 ft. 39 in. rein.-con. sewer in city line south of Edgebrook Ave. to Pier Property point 400 ft. north of West Liberty Ave. (Saw Mill Run Basin), Contr. 5, to M. Manella, 5140 Breedshill Ave., $670,045. Engrs. est. $85,000. Noted Apr. 23.

Md., Baltimore — Bd. Awards, storm sewers in Dist. J-8, to F. Angelozzi, 238 Albemarle St., $196,295. Noted May 21.

La., Bossier City—See "Waterworks."

O., Cleveland—City, 1,100 ft. 12 in vitr. tile sewer in Columbine Ave., to Sprague & Burkhardt, 11812 Browning Ave., $3,237; 840 ft. 12 in. vitr tile sewer in Kuhlman Ave., to Iafornaro & Son, 2218 Murrey Hill Rd., $3,275, 1,100 ft. 12 in. vitr. tile sewer in West 150th St., and 830 ft. 12 in. vitr. tile sewer in Warren St., also 440 ft. 2 ft. 6 in. concrete sewer in Rosemary St., to Hadded & Kariel Constr. Co., Huron-Sixth Bldg., $3,960 and $13,018 respectively; 1,010 ft. 12- to 24-in. vitr. tile sewer in West 151st St., to E. P. Langahan, Marshall Bldg., $4,155. Noted Apr. 23.

O., Cleveland — Cuyahoga Co., sewage plant, imhoff tanks sand filters and sludge beds east of Bonnyview Rd., Impvt. 302, Sect. B, to Lane & Freeman, 5713 Euclid Ave., $44,235; 1,500 ft. 12- and 48 in. tile-brick and sewer in S.O.M. Center Rd., Impvt. 301, Sect. A, to Iafornaro & Son, 2258 Murrey Hill Rd., $54,476.

O., Cleveland Heights (Warrensville P. O.) Vitr. clay sewers and c.i. watermains in 4 streets, to Iafornaro & Son, 2280 Murray Hill Rd., Cleveland, $65,798. Noted Apr. 23.

Wis., Madison—W. Winckler, city clk., storm sewers in University Ave., to N. Quinn, 515 West Johnson St., $78,800. Engrs. est. $78,000.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., Menomonee Valley sewer extension, approximately 1.5 mi. 18 and 24 in. terra cotta pipe, to Wenzel & Henoch Co., 498 27th St., $124,877. Noted Apr. 23.

Minn., St. Paul — H. W. Austin, city purch. agt., constructing Belt Line Outfall Sewer, Contr. G, 3,808 ft. 9 ft. and 1,580 ft. 24 ft. circular sewer, etc., to O'Neil & Preston, 608 Exch. Bank Bldg., $242,000.

Sewers (Continued)

Mo., Clayton — Eight Thousand Realty Co., 1101 Locust St., St. Louis, 6- to 51-in. vitr. and rein.-con. storm and sanitary sewers, etc., in Davis Pl. Subdivision North, South and Clayton Rds., to Myers Constr. Co., Merchants Laclede Bldg., St. Louis. Engrs. est. approximately $60,000. Noted Jan. 22 under "Streets and Roads."

Tex., Dallas — M. G. James, city secy., sewage pumping plant, A-type, Contr. 1, to Klein Bros., 822 North Walton St., $34,691, engrs. est. $35,000; sewage pumping plant, B-type, Contr. 2, to Janes Contg. Co., Southwest Life Bldg., $40,966, engrs. est. $45,000. Noted May 14.

Tex., Houston—Storm sewers in Welch St., from Commonwealth Ave. to McDuffie St., to C. K. Horton, 2202 Clay St., $27,838.

Calif., Palo Alto—City Council, 19,347 ft. 12- to 27-in. concrete sewer in Oregon and Seale Aves., also 20,000 ft. 6- and 8 in. vitr. sewers in South Palo Alto Dist., to Oakland Sewer Constr. Co., 385 15th St., Oakland $31,356 and $23,123 respectively.

Calif., Placentia — Placentia Sanitary Dist., 19,735 ft. 6- to 10-in. sewers, etc. in various streets, to H. R. Erdman, 141 West Main St., Alhambra, $26,436. Noted May 21.

Ont., Ford City — Sewers in various streets, to Chick Contg. Co., McDougall Ave., Windsor, $140,000; outlet sewer, to Merlo, Merlo & Ray, Ford City, $48,000.

Waste Disposal

PROPOSED WORK

Wis., Prairie du Chien — F. Ansome, officer Dept. Health, plans garbage disposal plant and incinerator, brick and steel, Buck St. Engineer not selected.

Calif., Oakland — Tentative plans submitted for incinerator, 400 tons daily capacity, $325,000; alternate plans for plant attached to steam generating plant to cut cost of operation, costing approximately $425,000. W. W. Harmon, city engr.

BIDS DESIRED

Fla., Tampa—June 2, by City Comrs., incinerator on Maryland Ave. $60,000. R. D. Martin, City Hall, engr.

Bridges

PROPOSED WORK

Mass., Boston — Dept. Pub. Wks. plans bridge over tracks of New Haven & Hartford R.R., on Massachusetts Ave. between Huntington and Columbus Aves. $100,000. J. A. Rourke, comr.

Pennsylvania—Pennsylvania R.R., Broad St. Sta., Phila., plans 120 ft. rein.-con. bridge and viaduct on William Penn highway at Mann's Narrows, Mifflin Co., west of Yeagertown, to take place of bridge that collapsed. $88,371. Pennsylvania R.R. Co. appropriated $53,371, State Hy. Dept., Harrisburg $18,000, Lewistown & Reedsville Trolley Co. $2,500, Mifflin c/o. (Lewiston) $12,500, and Derry and Brown Twps. $2,000 toward cost.

Tex., Alpine—See "Streets and Roads."

Tex., Houston—Voted $1,100,000 bonds for bridges. J. C. McVey, city engr. Noted Mar. 5.

Tex., Waco—City, c/o E. E. McAdams, mgr., making plans two 25 x 30 ft., rein.-con. extensions to bridge on Washington Ave. between 25th and 26th Sts. $25,000. V. G. Kock, Waco, engr.

Oklahoma—See "Streets and Roads."

Calif., Los Angeles—City and Los Angeles Co. plan 2 structures over the Los Angeles River, one to replace Glendale Bridge, and one at Hyperion St. To exceed $950,000.

BIDS DESIRED

N. J., Gloucester—June 8, by Bd. Freeholders Camden Co., Court House, Camden, 3 span concrete arch bridge over Newton Creek, at Champion Rd., here. J. J. Albertson, co. engr.; adv. E. N.-R. May 28.

Pa., Point Bridge (mail Pittsburgh)—June 3, by Comrs. Allegheny Co., Court House, Pittsburgh, approaches and masonry work on bridge over Monongahela River, here. $2,325,000. Dept. Pub. Wks., City County Bldg., Pittsburgh, engrs.

Maryland—June 2, by State Rds. Comn., Baltimore, rein.-con. arch bridge over Licking Creek, on Natl. Pike, Contr. W-36, Washington Co. J. N. Mackall, chn.; adv. E. N.-R. May 28.

Fla., Tampa—June 30 by City Comn., at office City Clerk, City Hall, 794 ft. rein.-con., viaduct 80 ft. over tracks and yard of Seaboard Air Line R.R. Co., on Lafayette St. N. S. Sprague, 1011 Bessemer Bldg., Pittsburgh, Pa., consult. engr.; adv. E. N.-R. May 28.

Miss., Columbus—June 4, by Bd. Supervs. Lowndes Co. at office of Chauncery Clerk, one creosoted timber spring span and two 90 ft. steel span bridge over Tombigbee River, here, 36,100 ft. creosoted timber 2,300 ft. untreated timber, 183,100 lb. reinforcing, etc., H. C. Dietzer, Jackson, engr. Noted Sept. 4.

Louisiana—June 16, by State Hy. Dept., Reymond Bldg., Baton Rouge, constructing Tchefuncta River Bridge, State Aid Project 443, Sect. B, on Amite-Franklinton Highway between Tangipohoa and Washington Parishes.

La., Bastrop—June 9, by Police Jury Morehouse Parish, bridges over Bayou Bartholomew, Project 7B, Wards Ferry, and at Vester Ferry, Project 17B.

Ill., Chicago — June 2, by South Park Comrs., 57th St. and Cottage Grove Ave., foundation and structural steel for viaduct over tracks of Illinois Central Railroad, at Oakwood Ave. E. J. Whitty, secy.

Missouri—June 9, by State Hy. Dept., Jefferson City, three 14 ft. I-beam spans over D. D. 22; three 16 ft. I-beam spans over D. D. 24, and three 20-ft. I-beam spans each over D. D. 3 and D. D. 7, all in Pemiscot Co. B. H. Piepmeier, highway engr.

Texas and Oklahoma—June 4, by Clerk and W. D. Lawrence, judg. Lamar Co. (Paris), Tex., constructing 1 new steel span, recovering and salvaging 2 steel spans and repairing bridge over Red River, near Arthur City, 12,800 lb. reinforcing 126,400 ft. creosoted timber, etc., for Lamar Co. (Paris), Tex. and Choctaw Co. (Hugo), Okla. J. M. Page, Capitol, Oklahoma City, Okla., engr.

Okla., Hugo—June 4, by Clerk Choctaw Co. (Hugo) and Clerk Lamar Co., Paris, Tex., 6 span 1,300 ft. steel truss bridge over Red River from here to Paris, Tex., 12,800 lb. reinforcing, 374,000 lb. salvaged structural steel, 235,000 lb. new structural steel, etc. J. M. Page, Capitol Bldg., Oklahoma City, highway engr.

California — Supervs. Sutter Co. (Yuba City), taking bids 585 ft. steel and timber bridge over Bear River, for Sutter Co. (Yuba City) and Yuba Co. (Marysville). $42,000. W. Shearer, Yuba City, surv. Sutter Co. J. R. Meek, Marysville, surv. Yuba Co. Noted Feb. 12.

BIDS RECEIVED

Pennsylvania — Dept. Hys., Harrisburg, May 20, bridge on Route 211, McKean Co., from Milliron Constr. Co., Inc., Dubois, $45,801; bridge on R. 19, Sullivan Co., from H. E. and D. W. Bahner, 316 South 4th St., Sunbury, $10,775. Noted May 7 under "Streets and Roads."

Maryland — State Roads Comn., Baltimore, 57 ft. bridge over Evitts Creek, on National Pike, Contr. A-38, and 71 ft. span rein.-con. and over Town Creek, Contr. A-36, at Gilpin, from Thomas, Bennett & Hunter, Westminster, $9,165 and $13,735 respectively; extending existing brick arch with 50 ft. span, etc., over Flintstone Creek, Contr. 37-A, from Brady Bros Co., Frostburg, $4,361, all above in Allegany Co. Noted May 14.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, May 11, from Medaris-Barnett, Greenfield, one rein.-con. culvert, three 20 ft. and two 23 ft. span rein.-con. girder bridges, Route 22, Sect. 11-B, Cook Co., $27,222; from C. J. Moritz, Effingham, one 28 ft. and three 26 ft. span rein.-con. slab and one 30 ft. and two 40 ft. rein.-con. girder bridges, Route 33, Sect. 6-B, Jasper and Effingham Counties $28,454, two 40 ft. span rein.-con. girder bridge, Route 33, Sect. 7-D, Effingham Co., $9,171; from Riley & Tanner, Stonefort, three 34½ ft. span rein.-con. girder bridge, Route 1, Sect. 38-V, Johnson Co., $8,014; from W. Lough & Sons, Marion, one 106 ft. steel substructure, Route 2, Sect. 3-V, Jackson Co., $14,661; from W. H. Shons Co., 11 South Liberty St., Freeport, two 30 ft. span rein.-con. slab bridge, Route 5, Sect. 20-B, Stephenson Co., $5,901; from Keokuk Bridge Co. and M. E. Stone, Madisonville, two 30 ft. rein.-con. girder bridges, one substructure for two 160 ft. span steel bridge, one 50 ft. and two 40 ft. span rein.-con. girder bridges, Route 13, Sect. 13-B, Jackson Co., $39,809; from Vincennes Bridge Co., Vincennes, Ind., one superstructure for two 160 ft. span steel bridge, incl. 354,520 lb. structural steel, Route 13, Sect. 13-C, Jackson Co. $23,123, three 150 ft. span steel superstructure, 497,220 lb. structural steel, Route 31, Sect. 18-C, Fulton Co. $33,550, superstructure for one 100 ft. span bridge, 85,620 lb. structural steel, Route 39, Sect. 2-C, McLean Co., $6,361; from M. R. Depy, 1126 West Washington St., substructure for three 50 ft. span steel bridge, six 50 ft. and two 35 ft. span rein.-con. girder approach bridges, Route 31, Sect. 18-B, Fulton Co., $69,905; from A. L. Herrick, Carlinville, seven 40 ft. span rein.-con. girder bridge, Route 32, Sect. [illegible] Moultrie Co., $29,977; from F. J. [illegible] Tipton, Ia., one 40 ft. span rein.-con. girder bridge, Route 39, Sect. 1-B, McLean Co., $5,330; from J. C. Fairclo, Champaign, one 14 ft. span rein.-con. slab bridge, one 8 ft. culvert and substructure for one [illegible] ft. span steel bridge, Route 39, Sect. [illegible] McLean Co., $11,623, from Acme Engineering, Decatur, substructures for two 150 ft. span steel bridge and two 45 ft. span rein.-con. girder bridges, Route 39, Sect. 12-B, Champaign Co. $21,584, superstructure for two 150 ft. span steel bridge, 353,750 lb. structural steel, Route 39, Sect. 12-C, Champaign Co., $22,982; from Churnus Constr. Co., Minneapolis, Minn., three 55 ft., one [illegible] ft. and two 35 ft. rein.-con. girder bridges, one 18 ft. span rein.-con. slab bridge and relocating one 28 ft. bridge, Route 40, Sect. 11-B, Carroll Co. $49,816. Noted Apr. 30.

Mich., Detroit—Bd. Comrs. Wayne Co., 1103 Real Estate Trust Bldg., substructure for double leaf bascule bridge at Dix Ave. and River Rouge, from Missouri Valley Bridge & Iron Co., Leavenworth, Kan. $390,236. Noted May 26.

Tex., Sweetwater — Nolan Co., concrete bridges, trestles and box culverts on State Highway 70, from C. C. O'Neal, 4425 Glenwood St., Dallas, $26,014. Engrs. est. $30,000. Noted Apr. 19.

Okla., Ralston — State Hy. Dept., Oklahoma City, 6 span 2,120 ft. steel truss bridge on concrete piers, Pawnee Co., here, from Green-Beekman Co., 519 West Main St., Oklahoma City, $249,177. Engrs. est. $300,000. Noted May 7.

CONTRACTS AWARDED

Pennsylvania—State Hy. Dept., Harrisburg, three 127 ft. span viaducts on Route 241, Wyoming Co., to Whittaker & Diehl Co., Union Trust Bldg., Harrisburg, $82,027, two 74 span bridges at Sta. 331 and 378, Route 105, Cameron Co., to Ferris Eng. Co., Pittsburgh, $104,668. Noted May 7 and 14.

North Carolina—State Hy. Comn., Raleigh, rein.-con. bridges and culverts on Project 235, Johnston Co., to J. L. Brinkley, Thomasville, $38,615; on Project 105C, to F. J. McGuire, Bankers Trust Bldg., Norfolk, Va., $28,924; on Project 283, Wayne Co., to Bowers & Bennett, Whiteville, $45,039. Noted, May 21.

Ala., Margerum—State Hy. Dept., Montgomery, 2 span 250 ft. concrete bridge over Bear River, Colbert Co., here, to S. B. Boyd, Columbia, Miss., $50,158. Engrs. est. $50,250. Noted Apr. 16 under "Alabama."

Louisiana—See "Streets and Roads."

Tenn., Columbia—Maury Co., three 100 ft. span concrete bridge, 16 ft. roadway over Duck River, to Luten Bridge Co., Mercantile Bldg., Knoxville, Tenn., approximately $29,000. Noted Feb. 26.

Wyoming—State Hy. Dept., Cheyenne, three 95 ft. steel truss span bridge on Federal Aid Project 180-A, near Green River, Sweetwater Co., and 9 timber frame structures on Casper-Muddy Gap Highway, Federal Aid Project 164-B, Natrona Co., to Peppard & Fulton, 324 Midwest Bldg., Casper, $49,159 and $18,125 respectively. Engrs. est. $59,000 and $25,000 respectively.

Wyoming—See "Street sand Roads."

Tex., Franklin—See "Streets and Roads."

Tex., Hebbronville — See "Streets and Roads."

Tex., Memphis—See "Streets and Roads."

Oklahoma — State Hy. Dept., Oklahoma City, 3 span 270 ft. steel truss bridge with concrete piers, incl. 21,600 lb. expansion plates, etc., State Aid Project 141-B, at Chelsea, and 4 span 60 ft. girder bridge on concrete piers, Federal Aid Project 193-C, at Lenapah, both Nowata Co., to M. E. Gillioz, Monett, Mo., $69,189 and $40,063 respectively, engrs. ests. $80,000 and $45,000 respectively; four 25 to 40 ft. span concrete bridges on Tahlequah-County line Rd., Cherokee Co., to E. L. Terry, Wilburton, $42,615, engrs. est. $50,000. Grand total $151,864.

Que., Montreal — Harbor Comrs., piers, foundation, etc., for southern section of Montreal-South Shore Bridge, 3,750 ft. long to have 250 ft., two 200 ft., four 150 ft. and three 125 ft. spans, etc., to Quinlan, Robertson & Janin, 50 Notre Dame St. W., $936,749.

Dam

PROPOSED WORK

Fla., Tallahassee — West Florida Power Co. plans dam and Power House, across Oclochne River, near here. $750,000. G. A. Winthrop, resident engr. Mees & Mees, Kinney Bldg., Charlotte, N. C., consult. engr.

Railways

PROPOSED WORK

Connecticut — New York, New Haven & Hartford R.R. Co., New Haven, E. Gagel plans addition to freight terminal, incl. classification yard of 19 tracks, in East Hartford. $300,000. E. Gagel, ch. engr.

California — See "Buildings — Industrial under San Andreas."

BIDS DESIRED

Massachusetts—June 2, by Eastern Massachusetts Ry. Co., 1 Beacon St., Boston, reconstructing, repairing and removing street railway tracks in towns of Norwood, Westwood and Dedham. Private plans.

Ontario—June 1, by W. A. Clarke, city clk. 40 Jarvis St., Toronto, 1½ mi. double track electric street railway, in York Twp., Toronto.

CONTRACTS AWARDED

New Jersey—North Jersey Dist. Water Comn., relocation of Erie R.R. at Wanaque Reservoir, to Winston & Co., Kingston, N. Y., $797,680.

Minnesota — Northern Pacific R.R. Co., 5th and Jackson Sts., St. Paul, grading and enlarging passenger coach yards, in St. Paul, to A. Guthrie & Co., 1209 Building Exch., St. Paul. Engrs. est. $750,000.

Quebec—Singer Mfg. Co., Thurso, 23 mi. line from Thurso to timber limits of owners, to Anglin-Norcross Co. Ltd., 65 Victoria St., Montreal, about $500,000.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Ill., Fairfield—Skillet Fork Union Outlet D. D. soon takes bids straightening and deepening Skillet Fork channel, cutting laterals, etc., for draining about 75,956 acres, incl. 30 mi. ditches and about 4,500,000 cu.yd. excav. $595,000. G. C. Harvey, Mount Carmel, engr. Noted Feb. 19.

Ia., Rockingham (Davenport P. O.)—Plans constructing cre k channel at Black Hawk Creek. $25,000. W. H. Tunnicliff, 802 Putnam Bldg., Davenport, engr.

Tex., Edinburg—Hidalgo Co. takes bids after June 1, earth levees to control flood waters along Sardinas Resaca from Rio Grande River to Cameron Co. line. $1,000,000. P. Devine, Pharr, engr. W. E. Shaw, Mercedes, assistant engr. Noted Jan. 22.

Calif., Long Beach—Made plans 6,500 ft. rock jetty at west side of harbor entrance, 500,000 tons rock, $1,000,000; 7,600 ft. rock dyke parallel to Terminal Beach, 713,000 tons rock, $1,426,000; relocating West Jetty, 54,000 tons rock, $270,000; rock jetty at east side of harbor 2,500 ft. beyond high tide, 475,000 tons rock, $950,000. R. G. McGlone, city harbor engr.

BIDS DESIRED

Okla., Seminole—June 1, by E. Cooper, clk. Seminole Co. Wewoka Creek D. D., draining and straightening Wewoka Creek through west half of county, 100,000 cu.yd. earth and 1,500 cu.yd. rock excav. $35,000. H. J. Wilkins, 227 West Grand St., Oklahoma City, engr.

Streets and Roads

PROPOSED WORK

N. J., Bridgeton — Plans improving 9 streets. $90,000. C. P. Corey, city clk. Engineer not selected.

Pa., Connellsville—Voted $300,000 bonds constructing various streets. J. E. Hoenshell, Connellsville, engr. Noted Apr. 9.

Pa., Uniontown — Fayette Co. voted $2,500,000 bonds for roads. L. G. Clemmer, Uniontown, engr. Noted Apr. 9.

North Carolina—State Hy. Comn., Raleigh, plans grading, concrete or asphaltic paving, etc., 5.1 mi. roads in Henderson Co., $150,000; clearing, grubbing, etc., 254.4 mi. roads in Anson, Rowan, Mecklenburg, Bladen, Columbus, Catawba, Gaston, Alexander, Hoke, Caswell, Scotland, Union, Duplin, Stanly, Rockingham, Stokes, Washington and Edgecombe Counties. $1,782,500. C. M. Upham, highway engr.

Fla., Dundee—Plans grading, paving and laying sidewalks on Merrill, Center and Main Sts. $50,000, also 1st, 3rd, Shephard and 4th Sts., $50,000; grading and paving, etc., 7th, 8th, Edmund, Lake, Polk and Center Sts., $68,250. H. S. Jandon Eng. Co., Elberton, Ga., engrs.

Fla., Riviera — Plans grading, paving, curbing and laying sidewalks on portions of Grand, Orange, Mound, Flaglee, Park, Curtis, North, Wright and Spruce Sts., $26,000; portions of Oak, Inlet, Tarpon, North, 1st, 2nd, 3rd, Curtiss, and Dixie Sts., $40,000. A. L. Zill, clk.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans surfacing, probably concrete 2.5 mi. Humbolt-Madison Co. line Rd., Gibson Co. and 7 mi. Jackson-Gibson Co. line Rd., Madison Co.; also improving 15 mi. Murfreesboro-Manchester Rd., Rutherford Co. J. G. Creveling, highway comr.

Ky., Murray—Plans grading and asphalt surfacing 21,000 sq.yd. Court Square, Main and Maple Sts. $55,000. H. C. Doran, Murray, engr.

O., Cincinnati — Making plans curbing, laying sidewalks and paving, 475 ft. Central Ave., 2,100 sq.yd. granite block and 500 cu.yd. concrete $33,558, 675 ft. Walnut St. from 3rd to Front Sts. 3,000 sq.yd. granite block and 700 cu.yd. concrete $41,450, 855 ft. Plum St., 3,800 sq.ft. granite block and 1,300 cu.yd. concrete $63,812, 2,450 ft. Main St., 2,500 sq.yd. granite block, 8,400 sq.yd., asphalt and 2,600 cu.yd. concrete $103,169, 2,500 ft. Madison Rd., 3,950 sq.yd. vitr. brick, 7,600 sq.yd. asphalt and 1,950 cu.yd. concrete, $88,410; curbing and paving 484 ft. Walnut St. from 4th to 3rd Sts., 2,160 sq.yd. granite block and 500 cu.yd. concrete, $25,000; curbing, grading and paving 454 ft. Ludlow Ave., 20,200 sq.yd. bituminous concrete, $246,789. F. Krug, City Hall, engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections and paving 1,049 ft. Girard Ave., 24 ft., brick $19,988, asphalt $15,897; 738 ft. Graham St., 24 ft., brick $14,547, asphalt $12,667. R. H. Simpson, city engr.

O., Lisbon — Columbiana Co. plans improving Hanover-Salem Rd., Hanover Twp., $45,000; and East Liverpool-Wellsville Rd., $40,000, State appropriated $22,500 for latter project. J. A. George, East Liverpool, engr.

Michigan — State Hy. Dept., Lansing, plans graveling 5.5 mi. Federal Aid Project 172 B, and 2.5 mi. Sect. A, both Cheboygan Co., 6 mi. State Trunk Line Rd. 25-17, Chippewa Co., 6 mi. State Trunk Line Rd. 22-13 B, and State Trunk Line Rd. 22-11 A, both Leelanau Co., 1 mi. State Trunk Line Rd. 13-16, and 1 mi. State Trunk Line Rd. 31-15, both Huron Co., 11.439 mi. Federal Aid Project 134 A, Roscommon Co., 4.258 mi. State Trunk Line Rd. 25-4 A and B, Luce Co., 4.5 mi. State Trunk Line Rd. 77-4, Schoolcraft Co.; concrete paving 0.763 mi. Federal Aid Project 206 B and 1.484 mi. Federal Aid Project 206 A, both Saginaw Co., 8 mi. State Trunk Line Rd. 25-15 A, Chippewa Co., 2.256 mi. State Trunk Line Rd. 40-1 B, Van Buren Co., 12 mi. State Trunk Line Rd. 10, Bay and Saginaw Counties, 4.836 mi. State Trunk Line Rd. 13-50, Kent Co., and 5.587 mi. Federal Aid Project 144 A, Calhoun Co. G. C. Dillman, Lansing, ch. engr.

Mich., Detroit — Making plans sheet asphalt paving 3,750 sq.yd. Mandale Ave. $17,860, 17,420 sq.yd. Lakewood Ave., Sect. 2 $82,840, 4,730 sq.yd. Alden Ave. $22,500, 5,185 sq.yd. Almeda Ave. $24,650, 420 sq.yd. north and south alley between Lawton, Linwood, Hazelwood and Taylor Aves. $1,050, 1,280 sq.yd. alley between Lillibridge, Beniteau, Edlie, and Jefferson Aves. $3,170, 995 sq.yd. alley between McKinley, Roosevelt, Kirby and Hudson Aves. $2,470, 780 sq.yd. alley between Radford, Holmur, Virginia and Euclid Aves. $1,950, 1,710 sq.yd. alleys between Burns, Fischer, Sylvester and Canfield Aves. $4,250, 1,050 sq.yd. alleys between Colfax, Northfield, Clarendon and Martendale Aves. $2,750, 928 sq.yd. alleys between Vinewood, McKinley, Biddle and Kirby Aves. $2,370, 420 sq.yd. alleys between Orleans, Dequindre, Alfred and Brewer Aves. $1,050, 1,720 sq.yd. alleys between 14th, 12th, Euclid and Philadelphia Aves. $4,300. G. Jerome, city engr.

Ill., Kewanee—Henry Co. soon takes bids repairing old pavement or tearing out, and granite top on rein.-con., rein.-con. brick on concrete or Warrenite-bitulithic surfacing South Tremont St. from Prospect to Division Sts., $14,000, 2 blocks Wilcey Court from Prospect to Elliott St., and 1½ blocks Columbus Ave., $11,000, all foregoing 30 ft.; also mains in Rice St. from 3rd to 6th Sts., and 6th St. from Rice to West Sts., $4,300. J. C. Palmer, city engr.

Ill., Peoria — Peoria Co. plans grading, curbing, paving, etc., Widenham St. from Steubenville to Warren Sts., Steubenville St. from Brotherson to Eckley Sts., and Alley Block 8 from East McClure to East Virginia Sts. $30,000. W. E. Backus, City Hall, engr.

Ill., Winthrop Harbor — Making preliminary plans grading, curbing and concrete surfacing 1 mi. various streets. H. Abrahamsen, city clk.

Minnesota — State Hy. Dept., St. Paul, making plans concrete paving 11 mi. highway between Sandstone and Finlayson, also between Rock Creek and Pine City, Minnesota Trunk Highway 1, $300,000, also 1 mi. La Crosse-La Crescent Rd., Sect., Minnesota Trunk Highway 2, $30,000. Engineering Dept., State Hy. Dept., 1246 University Ave., St. Paul, engr.

Kan., Newton—Harvey Co. making preliminary plans grading, curbing and concrete or brick on concrete surfacing 9 mi. road running south from Newton, 18 ft. A. Hay, Newton, co. engr.

Kan., Newton—Making preliminary plans grading, curbing and vertical fibre brick surfacing 10 blocks Muse, Logan and West South 4th Aves. A. Martin, city clk.

Neb., Papillion — Sarpy Co. voted $50,000 bonds, grading and 3 in. gravel surfacing 10 mi. Bellevue Precinct. Noted May 21.

Neb., Tekamah—C. L. Holland, clerk Burt Co., rejected bids May 8, grading, gravel surfacing, creosoted timber bridging, etc. 15.3 mi. Tekamah-Decatur Rd., Federal Aid Project 229. Will readvertise. R. L. Cochran, highway engr.

South Dakota—State Hy. Comn., Pierre, rejected bids Apr. 28, grading 6.02 mi. State Aid Project 104, Roberts Co., $10,816; and 0.53 mi. Federal Aid Project 165-C, Brule Co., $10,682. Noted Apr. 16.

Mo., Joplin — Making preliminary plans grading, curbing, hardsurfacing, etc. 6th, 7th, 8th Sts., etc. $100,000. S. Pashcraft, city engr.

Mo., Springfield — Making preliminary plans grading, curbing and concrete surfacing 9,567 sq.yd. Sherman St. between Central and Division Sts. G. W. Culler, City Hall, engr.

Mo., Sullivan—Making preliminary plans grading, curbing and concrete surfacing various streets. $40,000. Alexander Eng. Co., Woodruff Bldg., Springfield, engrs.

Ark., Arkadelphia—Rejected bids grading, curbing, and concrete surfacing, etc. 18 blocks Paving Dist. 2. Approximately $700,000. Will readvertise. Noted May 7.

Ark., Blytheville — Plans grading and gravel surfacing 17 mi. Blytheville, Barfield and Huffman Rds., 18 ft. J. M. Brooks, secy. Chamber Commerce, interested.

Tex., Abilene — Taylor Co. making plans hardsurfacing 10 mi. Abilene Rd., State Highway 1, 18 ft. $250,000. W. A. Riney, Abilene, engr.

Tex., Alpine—Brewster Co. rejected bids clearing, grubbing, grading, bridging and gravel surfacing 5.13 mi. State Highway 3, Federal Aid Project 378-E, 26 ft. $49,084. Will re-advertise. A. L. White, Alpine, co. engr. Noted Apr. 30.

Tex., Angleton — Brazoria Co. making plans shell surfacing 7.8 mi. State Highway 58. $119,000. H. W. Munson, Angleton, engr.

Tex., Brownfield—Election June 2, $50,000 bonds, paving 14 blocks various streets. M. L. Copeland, city secy.

Tex., Richmond—Election June 2, $35,000 bonds, paving various streets. Address mayor.

Tex., Richmond — Fort Ben Co. election May 30, $60,000 bonds, improving Tavener Rd. Dist. C. H. Kendall, Sugarland, co. engr.

Tex., Sherman—Grayson Co. election soon $4,500,000 bonds, for road work. Engineer not announced. Address County Judge.

Tex., Yoakum—Plans paving various streets. $60,000. T. J. Fitch, city comr. Engineer not selected.

Oklahoma—State Hy. Dept., Oklahoma City, made surveys grading and bridging 2 mi. Postal Highway near Hydro, Caddo Co. $30,000, 11 mi. Weleetka-Wetumka Rd., Okfuskee Co. $70,000; grading and paving 10 mi. Gainesville-Ardmore Rd., Love Co., $275,000, and 9 mi. Garber-Covington Rd., Garfield Co., $270,000, all above 30 ft. wide. J. M. Page, highway engr.

Okla., Perry—Noble Co. election June 5, $900,000 bonds, grading and paving various roads. J. M. Page, Capitol Bldg., Oklahoma City, highway engr.

Wash., Seattle — King Co. takes bids about June 11, paving 1.5 mi. Panther Creek Rd. $50,000. T. R. Beeman, Seattle, engr.

Wash., Sedro Woolley — Making plans concrete paving Jameson, Puget Aves., et al. $40,000.

Wash., Wenatchee — Chelan Co. making plans grading and paving 1 mi. Wenatchee Highway from here southerly. $35,000. J. Duff, Wenatchee, co. engr.

Calif., Alhambra—Made plans Improving Main St. between Wilton and Fremont Sts., 1,087 cu.yds. grading, 300,711 sq.ft. 7 in. asphaltic concrete paving, 4,150 lin.ft. curbing, 18,942 sq.ft. each sidewalks and guttering, etc., Main St. between east city limits and Wilton Ave., 2,809 cu.yds. grading, 324,332 sq.ft. concrete paving, 3,707 lin.ft. curbing, 11,935 sq.ft. sidewalks, etc. M. H. Irvine, city engr.

Streets and Roads (Continued)

Calif., Fresno—Fresno Co. plans resurfacing and repairing Riverside Highway, etc. $160,000 available. C. P. Jensen, Cory Bldg., co. surv.

Calif., Long Beach—Making plans disintegrated granite surfacing Long Beach Blvd., Cherry and Atlantic Aves., etc. $50,000 or more. T. Bruce, city street supt.

Calif., Modesto—Made plans improving portion of Morris Ave., 119,856 sq.ft. grading, 115,263 sq.ft. 1½ in. Warrenite bitulithic on 2½-in. asphaltic concrete paving, etc. F. W. McCarton, city engr.

Calif., Oakland—Made plans improving portions of Rusdale St., 74th Ave., etc., 158,801 sq.ft. grading, 5,503 lin.ft. concrete curbing, 10,793 sq.ft. concrete guttering, 83,782 sq.ft. oil macadam paving, 24,254 sq.ft. concrete sidewalks, etc. W. W. Harmon, city engr.

Calif., Oroville—Butte Co. made plans improving Neal-Oroville-Chico Rd., 60 tons asphaltic oil, 1,561 tons each broken stone and local broken stone surfacing. H. H. Hume, Oroville, road engr.

Calif., Pasadena — Municipal Improvement Dist. 5, plans election $850,000 bonds, widening Holly St. between Bway. and Marengo Sts. and Holly St. between Bway. and Fair Oaks Sts. B. Chamberlain, city clk.

Calif., Redwood City — San Mateo Co. rescinded contract repaving and surfacing 7½ mi. road between San Gregorio and Pescadero. Noted Mar. 19.

Calif., San Francisco—Bd. Pub. Wks., rejected bids improving Orizaba St. between Broad and Randolph Sts. Noted Apr. 16.

Calif., San Rafael—Plans paving, curbing, guttering, etc., Myrtle, 3rd Sts., etc. To exceed $25,000. D. D. Bowman, mayor.

Calif., San Rafael—Marin Co. plans election $1,250,000 bonds, constructing good roads system. J. C. Oglesby, Cheda Bldg., co. surv.

Calif., Santa Ana—Made plans improving West Washington Ave. between Lowell and Artesia Sts., 460,656 sq.ft. 5 in. concrete paving, 20,175 ft. curbing, 38,668 ft. sidewalks, etc. N. H. Neff, city engr.

Calif., Santa Barbara—Santa Barbara Co. plans paving 2.4 mi. road to join Santa Maria end of Harris Station Rd.

BIDS DESIRED

Mass., Gardner—June 1, by F. W. Proctor, supt. Streets, City Hall, rein.-con. paving 5,600 sq.yd. two locations; adv. E. N.-R. May 28.

R. I., Bristol—June 1, by Town Council, improving highway, 500 yd. excav., 1,000 cu.yd. gravel borrow, 900 tons broken stone, and 7,000 gal. bituminous material. J. W. Church, town clk.

New York—June 5, by A. W. Brandt, comr. State Hy. Dept., Albany, constructing roads in Cattaraugus, Cayuga, Chemung, Chenango, Genesee, Kings, Montgomery, Nassau, Oswego, Queens and Ulster Counties; reconstructing roads in Dutchess, Franklin, Monroe, Oneida, Oswego, Rockland and Sullivan Counties; adv. E. N.-R. May 28.

New Jersey—June 8, by State Hy. Dept., Trenton, grading and bridging Route 9, Sect. 16, Bloomsbury cut-off, Warren and Hunterdon Counties; rein.-con. paving 22,138 sq.yd. Route 16, Sect. 5A, Somerset Co., and 25,341 sq.yd. Route 20, Sect. 2, Gloucester Co. A. L. Grover, secy.; adv. E. N.-R. May 28.

N. J., Lambertville—June 8, by City Comrs., sheet asphalt paving various streets. $25,000. G. Davis, Whitehouse Sta., engr.

N. J., Roselle Park (Ind. Br. Elizabeth) June 5, by Mayor and Council, improving Seaton and Warren Aves. J. W. Higgins, boro engr.; adv. E. N.-R. May 28.

Pa., Southmont—June 8, by Boro Council, R. G. Wertz, secy., improving Milton and Arlington Sts., 4,000 sq.yd. concrete paving, 3,000 lin.ft. concrete curbing, 700 lin.ft. 6 and 8 in. sanitary and 300 lin.ft. 10 and 12 in. storm sewers. S. E. Dickey & Co., 609 Johnstown Trust Bldg., Johnstown, engr.

Maryland—June 2, by State Rds. Comn., Baltimore, concrete paving 2.37 mi. Contr. P-56, Prince George Co. J. N. Mackall, chn.; adv. E. N.-R. May 28.

Md., Baltimore—June 3, by Bd. Awards, concrete paving 9,000 sq.yd. Contr. 287 OA, and sheet asphalt paving 15,330 sq.yd. Contr. 286 OANA. L. G. Turner, 214 East Lexington St., Acting Chrg. Paving Com.

W. Va., Huntington—June 1, by Bd. City Comrs., L. D. Newman, chn., grading, curbing and paving Enslow Ave. from 18th to 19th Sts., 4th Ave. from 36th to Belleview Sts. and Belford Ave. from 1st to 2nd Sts. A. B. Maupin, city engr.

W. Va., Moundsville—June 14, at office of City Clerk, brick, block, concrete, asphalt or amiesite surfacing, etc., 9th St., Washington, Tomlinson, Parriott and Ash Aves., 8th St. from Tomlinson to Jefferson Aves. and 8th St. from Lafayette to Tomlinson Aves., 7th St. from Parriott to Grant Aves., and 7th St. from Western Ave. to Baltimore & Ohio R.R. tracks. Noted May 21.

W. Va., Spencer—June 1, by Roane Co., R. L. McCulty, clk., at Court House, grading, etc., 18 mi. road in Smithfield Dist. S. P. Whitney, Spencer, co. engr.

North Carolina — June 9, by State Hy. Comn., Raleigh, hardsurfacing 46.76 mi. roads in Edgecombe, Jones, Vance, Hoke, Wilkes, Henderson and Buncombe Counties; topsoiling, etc., 48.43 mi. roads in Beaufort, Chatham, Avery, and Burke Counties. M. Upham, ch. engr; adv. E. N.-R. May 28. Noted May 21.

Fla., Crestview—June 15, at office D. H. McCallum, clk. Okalossa Co., clearing, grubbing, grading, sand clay surfacing, etc., about 1.04 mi. Project 649, Dist. 3; about 9.38 mi. Dist. 1, and about 9.053 mi. Project 652, all Rd. 33. D. E. Helton, chn.

Miss., Louisville—June 2, by A. A. McNeel, city clk., improving various streets, 8,798 sq.yd. concrete, brick, sheet asphalt or rock asphalt surfacing, 3,325 cu.yd. grading, 17,500 ft. 6 in. curbing, etc. F. A. Livingston, City Hall, engr.

Miss., Mendenhall—June 3, by W. C. Thompson, chn. Western Highway Dist. 2, Simpson Co. gravel surfacing 11.4 mi. Magee-Mount, Zion and Magee-Pinola Rds. E. A. York, Magee, engr.

Louisiana—June 2, by State Hy. Dept., Raymond Bldg., Baton Rouge, vitr. brick, Warrenite bitulithic, asphaltic concrete, or sheet asphalt paving 1.413 mi. State Project 360 B, Baton Rouge—Agricultural College Highway, East Baton Rouge Parish. W. B. Roberts, state engr.

Louisiana—June 2, by State Hy. Dept., Reymond Bldg., Baton Rouge, hardsurfacing Highland Rd. between Baton Rouge and new Louisiana State University. $100,000. W. B. Roberts, highway engr.

O., Marion—June 4, by Marion Co., concrete paving 1.4 mi. Marion Prospect Rd., 16 ft. $28,000.

Ind., Anderson—June 15, by Comrs. Madison Co., concrete paving 1.5 mi. portions of 29th St. $38,000. H. H. Doyle, Court House, engr.

Mich., Grand Rapids—June 2, by Kent Co., graveling 3.435 mi. Harvard Rd.

Ill., Highland Park—June 4, by City Clerk, grading, curbing and concrete surfacing 15,500 sq.yd. streets in Braeside Dist. Windes & Marsh, 598 Birch St., Winnetka, engrs.

Wisconsin—June 2, at Division Office 3, Nicolet Bldg., Green Bay, grading, bridging and concrete surfacing 83,969 sq.yd. Manitowoc-Sheboygan Rd., Federal Aid Project 420-A, Manitowoc Co. J. T. Donaghey, Madison, highway engr.

Wisconsin—June 3, at Office 5, Batavian Natl. Bank Bldg., La Crosse, clearing, grubbing, shale surfacing, etc. 880 cu.yd. Black River Falls — Augusta — Eau Claire Rd., Federal Aid Project 395-A, Sect. 1, and gravel surfacing 1,902 cu.yd. same road. Sect. 2, also grading, concrete surfacing, etc. 1.33 mi. Winona-Marshland Rd., Federal Aid Project 340-A and 87, Buffalo Co. J. T. Donaghey, Madison, highway engr.

Wis., Watertown—June 1, by F. Weber, city clk., grading, curbing, guttering and rein.-con. paving 6,783 sq.yd. 3rd St., and 5,090 sq.yd. Water St. To exceed $25,000. A. Kraeft, City Hall, engr. Noted Apr. 9.

Ia., Cedar Rapids — June 4, by L. J. Storey, city clk., concrete surfacing about 12,955 sq.yd. various streets. $32,000. T. F. McCauley, city engr.

Minnesota—June 2, by State Hy. Dept., 1246 University Ave., St. Paul, **(S. P. means State Project, F. A. P. means Federal Aid Project)**, grading and concrete paving 3,722 sq.yd. S. P. 1-33 at Northfield, 54,000 sq.yd. S. P. 1-38, Div. A, F. A. P. 268 south of Hugo, 86,400 sq.yd. S. P. 1-39, F. A. P. 296, 66,400 sq.yd. S. P. 1-40, F. A. P. 297, 21,500 sq.yd. S. P. 1-46 at Faribault, 8,700 sq.yd. S. P. 1-49 at Albert Lee, 123,300 sq.yd. S. P. 3-31, F. A. P. 283, 49,700 sq.yd. S. P. 336, F. A. P. 307, and 58,000 sq.yd. S. P. 50-23, F. A. P. 306; grading and constructing Bridge 4378, 136 ft. concrete, on S. P. 6-40, Sect. 1, F. A. P. 349.

Minn., Elbow Lake—June 2, by C. M. Nelson, aud. Grant Co., improving 9 mi. State Rd. 14, Job 2501, 105,758 cu.yd. excav., 187,325 cu.yd. overhaul, 1,442 ft. 12- to 36-in. metal or concrete culverts, etc. $28,000. W. E. Burgess, Elbow Lake, engr.

Minn., Minneapolis—June 10, by A. P. Erickson, aud. Hennepin Co., paving approximately 5 mi. approaches to Mendota bridge. $150,000. W. H. Wheeler, 1112 Metropolitan Life Bldg., engr.

Kan., Ft. Scott—June 2, by Clerk Bourbon Co., 128,000 gal. bitumens for single surface treating on 28 mi. various roads. B. Boyle, Ft. Scott, engr.

Neb., Holdrege—June 9, by I. Anderson, city clk., City Hall, grading, curbing, guttering and paving 4,950 yd. streets in Dist 12, 13,120 yd. in Dist. 14, and 20,150 yd. in Dist. 15. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Missouri—June 5, by State Hy. Bd., Jefferson City, grading, graveling and concrete surfacing, etc., 54,148 sq.yd. King City-Clarkdale Rd., De Kalb Co., $100,000; grading and concrete surfacing, etc., 114,202 sq.yd. St. Louis-Kansas City Rd., Montgomery Co., to exceed $125,000, 275,800 sq.yd. Portageville-Arkansas Rd., Pemiscot Co., to exceed $350,000, 38,365 sq.yd. Richmond-Lexington Rd., Ray Co., to exceed $50,000; grading and chat surfacing, etc. 8,929 cu.yd. road from Nevada east, Vernon Co., to exceed $25,000. B. H. Piepmeier, highway engr.

Mo., Farmington—June 19, at office M. W. Crowder, clk. St. Francois Co., constructing 3.03 mi. roads through Desloge, St. Francois, and Flat River. Swank-Tanner Eng. Co., Charleston, engrs.; adv. E. N.-R. May 28.

Mo., St. Louis—June 9, by Bd. Pub. Serv., 208 City Hall, Warrenite paving 4,940 sq. yd. Rosedale St. $19,300, 31,210 sq.yd. Grand Blvd. and Grand-Kingshighway, $155,000; Warrenite paving and granite curbing 6,000 sq.yd. Plover Ave., $20,000; sheet asphalt paving and granite curbing 8,300 sq.yd. Gustine St., $25,000; Willite paving and granite curbing 3,950 sq.yd. Kansas St., $13,000; Willite paving and concrete curbing 4,215 sq.yd. Lemp St., $23,600; Trinidad asphalt, Warrenite or Willite paving 28,560 sq.yd. Kingshighway, $110,000; granite curbing, Trinidad asphalt or Willite paving 24,490 sq.yd. Morgan St., $108,400. W. W. Horner, city engr.

Tex., Falfurrias—Brooks Co. taking bids concrete surfacing, etc., 2.52 mi. State Highway 12, Federal Aid Project 429-I, $40,000; and 14.18 mi. same road, Federal Aid Project 2, $280,000, both 18 ft. R. Harrison, Falfurrias, engr. Noted Apr. 9.

Washington—June 9, by State Hy. Comn., Olympia, clearing, grading, etc., 0.5 mi. Bryn Mawr-Black River Rd., State Rd. 2, King Co.; crushed rock surfacing 6.75 mi. State Rd. 5 from pavement to Malloy's Bridge, Yakima Co.; clearing, crushed rock or gravel surfacing, etc., 3 mi. Charleston-Kitsap Lake Rd., State Rd. 21, Kitsap Co. J. W. Hoover, Olympia, highway engr.

Wash., Bucoda—June 8, by City Council, paving 3,600 ft. Main St. et al., 20 ft. $33,000. E. G. Sturdevant, Chehalis, engr. Noted Apr. 30.

Wash., Seattle—June 9, by Comrs. King Co., concrete paving 6,000 cu.yd. Greenwood Ave., Permanent Highway 10, 20 ft. $80,000. T. R. Beeman, Seattle, engr.

California — June 8, by State Highway Comn., Sacramento, crushed gravel on stone widening 10 mi. road between point 6 mi. east of Los Banos and San Joaquin River, Merced Co.; concrete paving 1 mi. road through town of Corning, Tehama Co.; concrete paving 7.6 mi. and crushed gravel or stone surfacing 1.2 mi. road between Healdsburg and Mark West Springs, Sonoma Co.; crushed stone or gravel surfacing 11.6 mi. road between Tahoe City and Nevada State line, Placer Co. R. M. Morton, Forum Bldg., Sacramento, state highway engr.

Calif., Corning — June 10, by City Trustees, 6 in. concrete paving 115,947 sq.ft. Solano St. W. F. Luning, Courthouse, Red Bluff, engr.

Calif., Mayfield—City Trustees taking bids improving Bowdoin, Columbis Sts., etc. 233,000 sq.ft. 5 in. vibrolithic concrete paving, 10,500 lin.ft. concrete curbing, etc. C. Moser, 651 Homer Ave., Palo Alto, engr.

Calif., Oakland—City Council taking bids improving portions Redding, Kingsland Aves., etc., 6,640 cu.yd. excav., 5,454 lin.ft. concrete curbing, 10,949 sq.ft. concrete guttering, 83,319 sq.ft. oil macadam paving, 27,433 sq.ft. sidewalk, etc. W. W. Harmon, city engr. Noted Apr. 3.

Calif., Oakland—City Council taking bids grading, paving, etc., East 14th St. between 50th St. and southeast boundary of city. $550,000. W. W. Harmon, city engr. Noted Jan. 15.

Calif., San Bruno—City Trustees taking bids grading, Willite paving, concrete sidewalks, etc., on Linden, Poplar, Elm, Acacia and Cypress Aves. To exceed $25,000. G. A. Kneese, Courthouse, Redwood City, engr.

Streets and Roads (Continued)

Calif., San Diego—June 8, by City, A. H. Wright, clk., improving Grape and 32nd Sts., 67,202 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, 9,797 sq.ft. 4 in. concrete paving, 3,199 sq.ft. concrete sidewalks, etc. F. A. Rhodes, city engr. Noted May 7.

Ontario—June 1, by Dept. Pub. Highways, Toronto, concrete paving 4.08 mi. road from Prescott easterly, 5 mi. Penetration from L'Orignal, and 4 mi. west of Brockville. C. H. Nelson, ch. engr.

Ont., Port Hope—June 1, by M. N. Ferguson, town engr., asphalt, concrete or bituminous concrete paving 21,000 sq.yd. various streets., $90,000.

Sask., Regina—May 30, by City Comrs., improving various streets, 36,000 sq.yd. paving 20,000 lin.ft. curb and gutter, 80,000 sq.ft. concrete sidewalks, etc. D. A. R. McCannel, city engr.

BIDS RECEIVED

New Hampshire — F. E. Everett, State Hy. Comn., State House, Concord, bituminous macadam paving 0.57 mi. highway in Dorchester, from Robie Constr. Co., Manchester, $12,811, 0.8 mi. in Bethlehem, from O. W. Fernald, Berlin, $12,328; paving 1.87 mi. highway in Boscawen, from A. D. Bridges & Son, Hazardville, Conn., modified asphalt $23,706, from Warren Bros., 9 Cambridge St., Boston, Warrenite, $44,805. Noted May 14.

Mass., Dorchester (Boston P. O.)—Dept. Pub. Wks., Boston, bitulithic paving Columbia Rd., here, from Warren Bros. Co., 9 Cambridge St., Boston, $66,968.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, May 20, from M. J. O'Hara, 1228 Park Ave., New York City, asphalt paving and repaving Dean St. $10,889, Maple St. $6,670, Ave. O $5,347, Westminster Ave. $7,664, 13th Ave. $3,235, 9th St. $41,949, 57th St. $4,724, 61st St. $15,785, Ave. N $3,740, from Uvalde Asphalt Paving Co., 1 Bway., New York City, Belmont Ave. $6,813, Bristol Ave. $7,332, Lott Ave. $2,732, Williams Ave. $12,770, from Borough Asphalt Co., 1301 Metropolitan Ave., Carrol St. $3,203, St. Nicholas Ave. $3,853; from Grimm Contg. Co., 170 McKinley St., sidewalks on Leonard Ave. $1,729; from Cranford Co., 52 9th St., resurfacing McDonough St. $86,925; from W. J. McHale Contg. Co., 1250 Jefferson St., grading, curbing, flagging, etc., 19th Ave. from 71st to 72nd Sts. $1,227, 19th Ave. from 76th to 78th Sts. $1,259; from F. Persicano, 350 Fulton St., grading, sidewalks, etc. on 73rd St. $1,134. Noted May 14.

N. Y., Brooklyn—Park Bd., Dept. Parks, 64th St. and 5th Ave., New York City, May 21, improving Highland Park Dr., from Galco Contg. Co., 745 Dean St., $45,555; curbing along westerly portion of Spuyten Duyvil Parkway, from L. Di Minna, 2366 Lorillard Pl., New York City, $4,114. Noted May 14.

N. Y., Poughkeepsie—F. S. Greene, supt. Pub. Wks., 55 Lancaster St., Albany, May 21, east approach and east and west anchorages of bridge across Hudson River, here, from Scott Bros. Constr. Co., Inc., 117 North Washington St., Rome, $484,570. Engrs. est. $486,675. Noted Apr. 30.

New Jersey—Middlesex Co. (New Brunswick), May 14, concrete paving 3 mi. River Rd. from Highland Park to Bound Brook, from Liddle & Pfeiffer, 149 New Brunswick Ave., Perth Amboy, $157,989.

Pennsylvania — Dept. Hys., Harrisburg, May 20, **(A. means Application and R. means Route)**, rein.-con. paving 6,001 ft. R. 52, A. 3158-B, Somerset Co., and 15,630 ft. R. 53, Sect. 1, Blair and Cambria Counties, from M. Barber, 180 Henry St., Binghamton, N. Y., $48,259 and $134,581 respectively; 2,158 ft. R. 159, Berks Co., from Dubois Constr. Co., Dubois, $32,354; 11,848 ft. R. 294, A. 3293, Crawford Co., from J. C. Devine Co., Alliance, O., $134,519; 22,499 ft. A. 3218, Berks Co., from M. Staub, 47 South Bway., Pitman, N. J., $190,250; 32,025 ft. R. 180, Delaware Co., from Union Paving Co., 30th and Locust Sts., Phila., $571,441; 10,570 ft. R. 63, A. 3127, and 24,134 ft. A. 3122, both Jefferson Co., from Indiana Constr. Co., Indiana, $84,740 and $225,544 respectively; 27,076 ft. R. 272, A 3047, Erie Co., from C. H. Fry Constr. Co., 19th and Cherry Sts., Erie, $276,073; 16,218 ft. R. 357, A. 3125, Jefferson Co., from R. V. Baldwin, 1361 4th Ave., Coraopolis, $124,345; 4,700 ft. R. 139, Lebanon Co., from Frey Constr. Co., 50 West Phila. St., York, $83,445; 17,564 ft. R. 325, Sect. 5, Washington Co., from Blue Ridge Constr. Co., Inc., Uniontown, $150,727; 14,934 ft. R. 141, Schuylkill Co., from Rudolph & Delano, 27 Pine St., Tamaqua, $121,105. Noted May 7.

Pa., Greensburg—W. A. Arter, controller Westmoreland Co., grading and paving Drennan-Poke Run Rd., from State Constr. Co., New Kensington, $29,760, engrs. est. $40,000; Harrison City to Manor Rd., in Manor, from Indiana Constr. Co., Indiana, $82,147, engrs. est. $100,000. Noted May 7.

Maryland — State Roads Comn., Baltimore, concrete shoulders on 4.15 mi. Contr. CE-11-A, Cecil Co., from Broad Creek Constr. Co., Elkton, $17,270, 2.5 mi. Contr. A-2-A, Alleghany Co., from T. D. Claiborne Co., Garrett Bldg., Baltimore, $20,803, 1.2 mi. Contr. M-141-B, Montgomery Co., from Patapsco Eng. & Constr. Co., New Amsterdam Bldg., Baltimore, $14,194; concrete paving 1.5 mi. Contr. B-75, Baltimore Co., from H. D. Campbell & Sons Co., Towson, $44,721, 0.5 mi. Contr. WI-31, Wicomico Co., from St. Michaels Constr. Co., St. Michaels, $11,177; sheet asphalt paving 0.73 mi. Contr. BC-55, Baltimore Co., from P. Flanigan & Sons, Harford Rd. and Baltimore and Ohio R.R., Baltimore, $85,996. Noted May 7.

Md., Baltimore—Bd. Awards, grading and sheet asphalt paving 17,900 sq.yd. Contr. 283 OA, from Amer. Paving & Contg. Co., Montebello Ave., $86,940; granite block paving Contr. 284 OC, from Arundel Constr. Co., Knickerbocker Bldg., $31,575. Noted May 14.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 10.7 mi. State Project 438, Clinton-Greensburg Highway, and 1.43 mi. State Project 375 C, St. Francisville-Clinton Highway, from Standard Highway Constr. Co., Baton Rouge, $120,702. Noted Apr. 23.

O., Cleveland Heights (Warrensville P. O.—From Cleveland Trinidad Paving Co., The Arcade, Cleveland, paving with (a) asphaltic concrete (b) sheet asphalt (c) brick, Ardmor Dist. (a) $116,382 (b) $126,411 (c) $140,926, Allstone Rd. (a) $18,148 (b) $19,028 (c) $20,268, Ardoon Rd. (a) $3,851, Monte Vista Rd. (a) $23,108, Quilliams Rd. (a) $17,667, Vinshire Rd. (a) $9,033, Antisdale Rd., (b) $25,901; from Spence Bros., Woodhill Rd., Cleveland, Antisdale Rd. (a) $33,464, Superior Rd. (a) $11,047, Rivere Rd., (a) $13,438; from Baldwin Bros., 4500 Euclid Ave., Cleveland, Clarence Rd. (a) $8,388, Glenwood Rd. (a) $17,668, Medford Rd. (a) $11,163, Noble Shire Rd. (a) $6,480, Randolph Rd. (a) $28,943. Noted Apr. 30.

Mich., Detroit — From Detroit Asphalt Paving Co., 909 Free Press Bldg., grading and sheet asphalt paving 1,637 sq.yd. Buena Vista Ave., Sect. 1 $7,562, 4,930 sq.yd. Buena Vista Ave., Sect. 2 $21,917, 2,390 sq.yd. Beniteau Ave. $11,159, 2,575 sq.yd. Farnsworth Ave. $12,818, 2,900 sq.yd. Rathbone Ave. $13,088, 10,930 sq.yd. McGraw Ave., Sect. 1 $45,294, 7,575 sq.yd. Plymouth Rd., Sect. 2 $29,442, 3,860 sq.yd. Lawton Ave. $18,127, 1,283 sq.yd. Deming St. $6,101, 3,090 sq.yd. McClellan Ave. $14,515, 6,520 sq.yd. August Ave. $29,228, 4,820 sq.yd. Vinton Ave. $21,622, 3,640 sq.yd. Ashland Ave. $16,652, 1,985 sq.yd. Walden Ave. $9,267, 3,685 sq.yd. Orangelawn Ave. $16,567, 6,675 sq.yd. Plymouth Rd., Sect. 4 $27,581; from Cleveland Trinidad Paving Co., 402 Hammond Bldg., 2,550 sq.yd. Petoskey Ave., Sect. 1 $11,440, 2,100 sq.yd. Petoskey Ave., Sect. 2 $9,670, 5,460 sq.yd. Dexter Ave. $22,282, 960 sq.yd. Lawton Ave. $4,565, 6,010 sq.yd. Belden Ave. $27,274, 3,950 sq.yd. Idaho Ave. $18,251, 535 sq.yd. Brown Ave. $2,763; from Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 6,280 sq.yd. Casmere Ave. $28,304, 8,495 sq.yd. Riopelle Ave. $37,403, 8,550 sq.yd. Annin Ave. $37,729, 7,860 sq.yd. Burnside Ave. $36,213.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, May 11, concrete surfacing 8.94 mi. Route 3, Sect. 43, Schuyler Co., from F. C. Feutz Co., Rochester, Ind., $178,707, 0.25 mi. Route 5, Sect. 15-X, Winnebago Co., from Verhey Constr. Co., Urbana, $8,958, 3.35 mi. Route 9, Sect. 36, McDonough Co., from Cameron Joyce Co., Keokuk, Ia., $67,637, 4.12 mi. Route 9, Sect. 39, Fulton Co., from Jansen & Schaefer, Pekin, $125,497, 5.33 mi. Route 22, Sect. 11, Cook Co., from Chicago Heights Coal Co., Chicago Heights, $133,533, 7.8 mi. Route 22, Sect. 19, Lake Co., and 0.31 mi. Route 22, Sect. G-2, Will Co., from Powers Thompson Constr. Co., Joliet, $194,088 and $3,102 respectively, 1.22 mi. Route 22, Sect. 21, Lake Co., from Darrell & Barrow, Waukegan, Wis., $56,628, 3.06 mi. Route 23, Sects. 27 and 27-A, De Kalb Co., from Carnine & Sweeney, Sullivan, $35,900, 7.23 mi. Route 33, Sect. 3, Jasper Co., from E. Berns Co., Indianapolis, Ind., $109,065, 8.28 mi. Route 33, Sect. 6, Jasper and Effingham Counties, and 6.76 mi. Route 33, Sect. 7, Effingham Co., from C. J. Moritz, Inc., Effingham, $140,076 and $108,886 respectively, 13.6 mi. Route 39, Sects. 2, 3 and 4, McLean Co., from W. W. C. Meneely Co., Decatur, $269,687, 1.56 mi. Route 27, Sect. 18, Ogle Co., from C. E. Carson Co., 601 St. Clair St., $53,307, 4.97 mi. Route 31, Sect. 16, Fulton Co., and 7.18 mi. Route 45, Sect. 1, La Salle Co., from Keokuk Quarry & Constr. Co., Keokuk, Ia., $89,881 and $127,435 respectively; grading 1.7 mi. Route 24, Sect. 12-A, Sangamon Co., from Harris & Haskitt, Neoga, $24,128, 5.14 mi. Route 39, Sect. 1-A, McLean Co., from Louis Rich Constr. Co., Harrisburg, $16,747, 2.31 mi. Route 39, Sect. 2-A, McLean Co., from E. P. Olson, 2991 Monterey St., St. Joseph, Mo., $13,844, Fish Hatchery Dike, Woodford Co., from J. J. Jobst, 109 South Jefferson St., Peoria, $9,272. Noted Apr. 30.

Wis., Wausau — J. L. Brown, city clk., May 11, vibrolithic or rein.-con. paving, etc. 12,820 sq.yd. 6th and Division Sts., from C. Latz, 1016 Grand Ave., at $2.04 per sq.yd. Noted Feb. 19.

Minn., St. Paul—H. W. Austin, city purch. agt., Apr. 28, paving approximately 11,022 sq.yd. Wheelock Parkway, from Hanlon & Okes, 1501 Merchants Bank Bldg., oil asphaltic concrete, $49,488 and lake $51,000. Noted Apr. 23.

Tex., Liberty—Liberty Co. surfacing with (a) 6 in. Bates type concrete on sand or (b) 1½ in. bituminous on concrete (1) 6.8 mi. State Highway 3, Federal Aid Project 352-A, 18 ft. and (2) 7.8 mi. same road Sect. C, from F. P. McElwrath, Corsicana, (a1) $183,486 (b1) $222,404 (a2) $199,434 (b2) $243,800; hauling and shell surfacing 6 and 8 in. same road Sect. D, from C. K. Horton, Box 1394, Houston, $23,591, engrs. est. $25,500. Noted Apr. 30.

Oklahoma—State Hy. Dept., Oklahoma City, May 12, grading, gravel surfacing, etc., 8.86 mi. State Aid Project 141-A, Nowata Co., from J. G. Newkirk, McAlester, $55,619. Engrs. est. $65,000. Noted May 7.

Wash., Seattle—Bd. Pub. Wks., May 8, from Moceri Bros., Thompson Bldg., improving Meridian Ave. et al, 960 lin.ft. asphaltic concrete curbing at $0.58 per lin.ft. concrete curbing $0.27, 430 lin.ft. concrete sidewalks $1.40, 3,400 cu.yd. sub-grade $0.48, 1,950 cu.yd. grading $0.40, 13,780 sq.yd. 6 in. concrete paving $1.55, etc., total $36,631. Engrs. est. $41,750.

Calif., Taft—From A. J. Crocker Co., 58 2nd St., San Francisco, improving Kern St., etc. 4,150 ft. curbing, at $0.80 per cu.yd., 5,986 ft. gutter, $0.35, 21,437 ft. sidewalks $0.22 and 147,247 ft. 1½ Warrenite bitulithic on 3½ in. asphaltic concrete, etc. Noted Mar. 19.

CONTRACTS AWARDED

R. I., Providence — Dept. Pub. Wks., regulating and paving various roadways, to C. W. Blakeslee & Sons, 58 Waverly St., New Haven, Conn., $69,639.

R. I., Providence — Metropolitan Park Comn., State House, bituminous macadam paving 2.48 mi. Barrington Parkway, 18 ft. 8 in., to B. C. J. Jordon, 75 Westminster St., $69,185.

R. I., Providence — Water Supply Bd., grading about 1 mi. highway in Scituate, to E. L. Gobielle, Inc., 16 Cambridge St., Worcester, Mass., $30,265. Noted May 21.

Connecticut—J. A. McDonald, comr. State Hy. Dept., Hartford, bituminous macadam surfacing 45,394 ft. Northampton Turnpike, in Windsor, Windsor Locks, East Granby and Suffield, to Lane Constr. Co., 37 Colony St., Meriden, $168,134, 13,144 ft. Hebron Ave. in Glastonbury, to F. Arrigoni & Sons, Middletown, $26,600; waterbound macadam surfacing 20,785 ft. Raymond Hill Rd. in Montville, to D. Arrigoni, Middletown, $102,933, 19,980 ft. Colchester Amston Rd. in Colchester and Hebron, to L. Suzio Constr. Co., State and Brooks Sts., Meriden, $83,234, 6,000 ft. Macedonia Rd. in Kent, to W. J. Montgomery Co., 72 Conner St., New Haven, $58,368, 12,900 ft. Branford and North Branford Rds. in Branford and North Branford, to Kelleher Bros., Montague City, Mass., $52,956, and 6,000 ft. Georgetown Rd. in Redding, to Osborn & Barnes Co., Odd Fellows Bldg., Danbury, $47,354. Grand total $539,579. Noted Apr. 23.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and repaving West Alley Rd., etc., to W. P. MacDonald Constr. Co., 342 Madison Ave., New York City, $149,430. Noted May 14.

N. Y., Long Island City — M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., restoring sidewalks and sheet asphalt paving Rockaway Beach Blvd. from Beach 116th to 122nd Sts., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $8,618; and granite block paving Rockaway Beach Blvd. from Beach 75th to Beach 110th Sts., to Peninsula Contg. Corp., $19,109. Noted May 14.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Highway Impvt. & Repair Co., 50 Church St., New York City, grading, curbing and

Streets and Roads (Continued)

sidewalks, etc., on 53rd Ave. $12,131, 96th St. $10,576; to Sicilian Asphalt Paving Co., 41 Park Row, New York City, sheet asphalt repaving Old South Rd. $190,220, to Uvalde Asphalt Paving Co., 1 Bway., New York City, Beach 19th St. $46,135, Lincoln Ave. $54,655, to Cleveland Trinidad Paving Co., Flushing, Van Wyck Ave. $75,040; to Welsh Bros. Contg. Co., 32 Queens St., Astoria, grading, curbing, and sidewalks, etc., on Moore St. $18,990; to H. E. Kordes, 2577 Cooper St., grading 83rd Ave. $4,828; to J. J. O'Brien, William St., Jamaica, grading, sidewalks, etc., on 97th St. $2,695, 125th St. $7,374; to C. H. Georgi, grading, sidewalks, etc., on 91st Ave. $2,005. Noted May 7.

N. Y., New York—L. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., bituminous concrete paving Mt. Eden Ave., and granite block repaving East 149th St., to Asphalt Constr. Co., 208 Bway., $14,962 and $211,706 respectively; granite and asphalt block repaving Fordham Rd., to Regan Towers Co., 124 West 121st St., $179,104; grading, etc., Adams St., to M. Del Balso, 660 East 221st St. $3,991, Calhoun Ave., to Spadaro Contg. Co., Inc., 375 East Fordham Rd. $10,788, Bogart Ave., to S. Nugent 285 West 150th St., $10,983. Noted Ma 21.

N. Y., New York—New York State Bridge & Tunnel Comn. and New Jersey Interstate Bridge & Tunnel Comn., Room 3004 Woolworth Bldg., granite block with asphalt mastic joint filler on sand-cement cushion paving Holland Tunnel, Contr. 10, to W. T. Fitzgerald, 547 East 45th St., $329,655. Noted May 14.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete repaving Richmond Terrace, etc., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $24,042; concrete curbing, etc., North Burgher Ave., to Fiorino & Trafaglio, 138 St. Pauls Ave., Tompkinsville, $10,711. Noted May 14.

N. J., Elizabeth—Bd. Wks., to Standard Bitulithic Co., 50 Church St., New York City, asphalt paving Fernwood Terrace $11,966, Grove St. $14,570, Vine St. $17,944, Ramond Terrace $8,319; to Gilligan, Barret & Cahill Co., Broad St., Newark, portion of Grove St. $14,784, Trinity Pl. $15,578, and Irvington Ave. $20,105. Grand total $103,266.

N. J., Princeton—Concrete paving ½ mi. Harrison St., to Union Paving Co., 30th and Locust Sts., Phila., Pa., $25,849. Noted Mar. 19.

Pennsylvania—State Hy. Dept., Harrisburg, **(A. means Application and R. means Route)**, rein.-con. paving 11,640 sq.yd. R. 302, Sect. 2 Westmoreland Co., to J. Battenfield Sons Co., 223 Martin Bldg., Federal St., Pittsburgh, $3.20 per sq.yd., total $56,780, 6,529 sq.yd., 15,724 sq.yd. and 4,000 sq. yd. R. 221 Blair Co., to G. I. Thompson Co., Clearfield, $3.75, $3.45 and $3.10 per sq.yd. respectively, total $112,967, 54,100 sq.yd. R. 103, A. 3370-3308, Tioga Co., to Van Auken & Robbins, Troy, $2.65 per sq.yd., total $206,820, 38,000 sq.yd. R. 256, A. 1078-2959, Greene Co., $4.30 per sq.yd., total $293,913; grading, etc., 33,300 cu.yd. R. 193, Sect. 1, Huntingdon Co., to Ancon Constr. Co., Collingswood, N. J., $1.05 per sq.yd., total $63,918. Grand total $734,428. Noted May 7.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. means Application)**, to Johnson-Drake & Piper, 834 1st Natl. Soo Line Bldg., Minneapolis, Minn., improving R. 67, A. 3175-3032, Armstrong and Indiana Counties, 50,750 sq.yd. rein.-con. paving, $3.28 per sq.yd., 37,040 cu.yd. unclassified excav. $0.95 per cu.yd. and 9,905 cu.yd. borrow $0.95 per cu.yd.; to Carrado & Galiardi Constr. Co., Connellsville, R. 337, A. 3176, Indiana Co., 75,277 sq.yd. rein.-con. $3.25, 39,700 cu.yd. unclassified excav. $1, total $348,586; to W. C. Horn Co., Athens, R. 299, A. 2341, Bradford Co., 7,134 sq.yd. rein.-con. $3.25, 906 cu.yd. unclassified excav. $2, total $30,000; to C. H. Fry Constr. Co., 19th and Cherry Sts., Erie, A. 3346-3347, Erie Co., 3,582 ft. rein.-con. $3.60, 868 cu.yd. unclassified excav. $1.25, total $15,469; to R. D. Richardson Constr. Co., Scranton, A. 3219, Berks Co., 7,931 sq.yd. rein.-con. $3.30, 7,076 cu.yd. unclassified excav. $1.70, total $50,638; to Elder & Merriman, Ebensburg, R. 262, Sect. 4, Indiana Co., 72,300 sq.yd. rein.-con. $3.18, 47,224 cu.yd. unclassified excav. $1, 6,327 cu.yd. borrow $1, total $342,850; to Frey Constr. Co., 50 West Phila. St., York, R. 140, A. 2924, Sect. 2, Dauphin Co., 20,005 sq.yd. rein.-con. $3.24, 13,500 cu.yd. unclassified excav. $1.37, total $99,375; to Wilson-Johnson Constr. Co., Appleton, Wis., R. 75, A. 3384, Butler Co., 18,850 sq.yd. rein.-con. $3.19, 6,755 cu.yd. unclassified excav. $1, total $85,298; to E. A. Freshwater & Sons, Painesville, O., R. 347, A. 3138, Beaver Co., 10,057 sq.yd. rein.-con. $3.25, 4,100 cu.yd. unclassified excav. $1, total $45,743; to General Paving Co., Allentown, A. 3220, Berks Co., 22,217 sq.yd. rein.-con. $2.80, 5,314 cu.yd. unclassified excav. $1.50, total $83,035. Noted May 7.

Pa., Phila. — Bureau Hys., Dept. Pub. Wks., to E. A. Mullen, Inc., 5512 Vine St., grading Buist, Daggett and Dicks Sts. $1,982, to R. B. Wenner, 2313 Walnut St., Churchview St. $23,600, Middleton St. $6,748, to T. L. Flannagan, 531 Ellwood St., Leiper St., $732, 66th Ave. $2,528, to Garlick Bros., 2934 East Venango St., Griffith, Hartel and Harrocks Sts. $12,883, Thompson St. $5,429, Venango St. $920, to Buckley & Banks, 1317 South Juniper St., Markle St., $8,531, Sedgwick St. $1,760, to Eastern Asphalt Paving Co., Pennsylvania Bldg., asphalt paving American and Randolph Sts. $2,344, C St. from Wyoming to Louden Sts., and Luden St. from C to Rosehill Sts., $13,977, Louden St. from Marshall to 7th Sts. $1,971, Oxford St. $5,693, to Union Paving Co., 30th and Locust Sts., Buist, Edgewood, Theodore and 60th Sts. $24,740, asphalt repaving Baltimore St. $81,414, and redressed granite block repaving Bainbridge St. $26,211; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving, Montana St. $9,944, Salmon St., $5,188, to Barber Asphalt Co., 239 North 30th St., Dicks St. $7,498, Gaul St. $4,800, Lebanon and 57th Sts. $33,678, Reedland and Wheeler St. $7,346, 67th St. $6,285, asphaltic repaving Lehigh St. $9,337, 44th St. $11,129; to United Paving Co., Real Estate Trust Bldg., redressed granite block repaving 10th St. $25,064; to J. F. Nolen & Sons, 64 Church Lane, vitr. block repaving Silverwood St. $32,626; to Curtis Bros., State Rd. and Unruh St., country road improvements, Burholme, D, E and Hoffnagle Sts. $17,701, to Baton Constr. Co., 1713 Sansom St., Cobbs Creek Parkway $62,254, to Fort-Rutherford Co., 2313 Walnut St., Luzerne St. $17,701; to Kauffman Constr. Co., Bourse Bldg., concrete dam and section of bathing lake at League Island Park. $3,610; from Sarco Contg. & Building Co., 1213 Snyder Ave., reconstructing sewers in 11th St., $4,490. Grand total $472,616. Noted May 14.

Pa., Phila.—Grading 174,890 cu.yd. 20th St., to McNichol Paving & Constr. Co., 1923 Cherry St., $0.99 per cu.yd. total $173,141.

Pa., Pittsburgh—City Controller, **(e. e. means engrs. est.)**, to M. O'Herron & Co., South 1st and McKeon Sts., repaving Jancey St. $82,465 e. e. $90,000, to Booth & Flinn, 1942 Forbes St., Charles St. W. $51,441 e. e. $39,000, Preble Ave. $32,574 e. e. $40,000, grading, paving and curbing Rossmore Ave. $36,730 e. e. $54,000. Grand total $203,310. Noted Mar. 12.

Pa., Waynesburg — Green Co., Kentucky rock on crushed stone surfacing 14,435 ft. Coallick Rd., Franklin Twp., to E. E. Morris, Waynesburg, $136,453. Noted May 7.

Md., Baltimore — Grading, curbing and concrete paving 12,770 sq.yd. Contr. 282-OANA, to G. Long Constr. Co., 1st Ave. and 12th St., $33,760. Noted May 21.

Md., Baltimore — Bd. Awards, sheet asphalt paving 8,530 sq.yd. Contr. 281-OC, to Amer. Paving & Constr. Co., Montebello Ave., $42,939; concrete paving 13,160 sq.yd. Contr. 280-NA, to Aiello Constr. Co., 4th and South Sts., $37,982. Noted May 21.

Md., Salisbury—Concrete paving 1.44 mi. extension Main St., to P. H. Phillips & Bro., Salisbury, $54,937.

North Carolina—State Hy. Comn., Raleigh, to Jamison Bros., High Point, clearing, grubbing, grading, top soiling, etc., Project 128, Edgecombe Co. $68,912, to Hanford Bros., Burlington, 7.53 mi. Project 609, Anson Co., $50,584; to Battershille & Goode, Virgilina, Va., clearing, grubbing, grading, etc., 13.27 mi. Project 235, Johnston Co. $67,601, to J. A. Narrow, Clarksville, 11.78 mi. Project 581, Randolph Co. $54,539, to T. C. Hurlocker, Albemarle, 10.58 mi. Project 396, Rabeson Co. $45,670; to Hudson & Scruggs, Wilmington, grading and sand asphalt paving, etc., 5 mi. Project 310, Brunswick Co. $92,873, to R. G. Lassiter & Co., Raleigh, 9.24 mi. Project 564, Moore Co., $168,211, to Highway Eng. & Constr. Co., Selbyville, Del., 8.02 mi. Project 565, Moore Co., $148,078; to Noll Constr. Co., Charlotte, grading and asphalt on concrete paving 9.38 mi. Project 283, Wayne Co. $309,032, to Blythe Bros. Co., Charlotte, 7.96 mi. Project 488 B, Wake Co. $212,445, to F. J. McGuire, Bankers Trust Bldg., Norfolk, Va., 4.48 mi. Project 197 C, Bertie Co. $132,973, clearing, grubbing, grading and plain concrete paving, etc., 4.91 mi. Project 105 C, Beaufort Co. $167,711, 4.15 mi. Project 181, Perquimans Co. $114,150; to J. M. Gregory & Co., Pittsboro, grading, concrete paving and rein.-con., structures, etc., on 10.3 mi. Project 745, Forsythe Co. $272,618, grading and concrete paving 8 mi. Project 534, Guilford Co. $231,214. Grand total $2,136,611. Noted May 21.

Miss., Gulfport—Harrison Co. and State Hy. Dept., Jackson, concrete surfacing, etc., 3.016 mi. Gulfport Rd., 18 ft. with 4 ft. grading, also 132 ft. steel and concrete bridge across Turkey Bayou, to S. A. Gano, Maison Blanche Bldg., New Orleans, La., $83,902 plus $8,390 for engineer and contingent expenses. Noted Apr. 30.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 10.68 mi. State Project 467 A, Sect. A, Minden-Lewisville Highway, and 7.94 mi. State Project 429, Sect. C, Natchitoches Boyce Highway, to N. M. George Constr. Co., Shreveport, $59,423, and $33,653 respectively; 8.41 mi. State Project 429 B, Natchitoches-Boyce Highway, to W. B. Baille, Delhi, $32,019. Noted Apr. 30.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, graveling State Project 351, Sects. C and D, St. Francisville-Jackson Highway, West Feliciana Parish, to Two State Constr. Co., Junction City, $47,727, and road in West Feliciana, to F. O. Hamilton, $30,368; West Feliciana Bridge, to A. M. Blodgett, New Orleans, $19,206.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, soon takes bids surfacing, probably concrete, 4 mi. Gibson Co. line Rd. to Federal Aid Project 29, 18 ft., Madison Co. J. G. Creveling, highway engr.

O., Cleveland—Improving Fairwood Ave. and West 44th St., 4,070 cu.yd. excav., 7,150 sq.yd. brick paving 4,100 lin.ft. stone curbing, 4,820 lin.ft. 4 in. drain tile gutter, to Roehl Bros., 7002 Denison Ave., $18,556 and $20,984 respectively; Milverton Rd., 3,500 cu.yd. excav., 8,200 sq.yd. asphalt on concrete, 4,370 lin.ft. stone curbing and 4,720 lin.ft. 4 in. drain tile gutter, to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $52,546; West 46th and 118th Sts., 7,880 sq.yd. excav., 13,320 sq.yd. brick paving, 5,200 ft. stone curbing, 5,300 ft., 4 in. drain tile gutter, to Fischer & Williams, Lorain Rd., $6,898 and $83,190 respectively; Catalpa Ave., Arabelle and Burgess Rds., 6,720 cu.yd. excav., 13,520 sq.yd. brick on concrete, 8,746 lin.ft. 4 in. drain tile gutter, 9,330 lin.ft. stone curbing, to Gould & Maybach, 16311 Saranec Rd., $26,009, $17,337 and $23,441 respectively; Bramer Dr. and West 42nd St., 6,060 cu.yd. excav., 10,330 sq.yd. asphalt on concrete paving 6,955 lin.ft. 4 in. drain tile gutter, 7,455 lin.ft. stone curbing, to W. E. McHugh, West 73rd St. and Wheeling & Lake Erie R.R. tracks, $47,343 and $6,005 respectively; Denley Ave. and East 45th St., 2,490 cu.yd. excav., 4,540 sq.yd. brick paving, 3,136 lin.ft. 4 in. drain tile gutter, 3,670 lin.ft. stone curbing, to Enterprise Paving & Constr. Co., 8444 The Arcade, $12,902 and $11,992 respectively. Grand total $317,203. Noted Apr. 16.

Ind., Marion — Grant Co., curbing and concrete paving 1.75 mi. Meridian St., to G. W. Fenning & Sons, Bryant, $44,714.

Michigan — State Hy. Dept., Lansing, will concrete surface 2.153 mi. Trunk Line Rd. 23-13, A, Washtenaw Co., by day labor. $69,870. G. C. Dillman, ch. engr.

Michigan — State Hy. Dept. at office Comrs. Saginaw Co., Saginaw West Side, grading 5.802 mi. Federal Aid Project 92 A2, and 2.587 mi. Sects. B1 and B3, to W. J. Meagher, Bay City, $222,861 and $133,850 respectively. Noted May 14.

Ill., Averyville—Bd. Local Impvts., grading, curbing and vitr. brick on concrete surfacing 20,576 sq.yd. Madison St., to Tuttle & Bidleman, Peoria, $51,250. Engrs. est. $60,000.

Ill., Forest Park—Bd. Local Impvts. improving various alleys, to J. A. Ross & Co., 4561 Armatige St., Chicago, grading at $1.40 per cu.yd. and concrete paving $2.33. Noted Apr. 16.

Ill., Highland Park — Grading, curbing and concrete surfacing 9,400 sq.yd. various streets, to Highways Constr. Co., Highland Park.

Ill., Lincoln—Logan Co., 500,000 gal. road oil on various roads, to Roxana Petroleum Corp., Arcade Bldg., St. Louis, Mo., at $0.0611 per gal.

Wisconsin—State Hy. Comn., Madison, to A. Larsen & Co., Eau Claire, improving Madison-Kilbourne Rd., Federal Aid Projects 355, 356 and 418-A, Saul Co., 17,390 cu.yd. earth excav. at $0.65 per cu.yd., 418 cu.yd. loose rock excav. $1, 975 cu.yd. borrow $0.65, 70,003 sq.yd. concrete surfacing etc., $1.40, total $130,181; to A. J. Kramp, Berlin, improving Janesville-Evansville-Madison Rd., Federal Aid Project 384-A and B, 52,447 cu.yd. earth excav. at $0.60, 1,047 cu.yd. borrow $0.60, 115,024

Streets and Roads (Continued)

sq.yd. concrete surfacing, etc., $1.10, total $174,686; to Campbell Constr. Co., 3050 Henn Ave., Minneapolis, Minn., improving, Shullsburg-Monroe Rd. Federal Aid Project 374-B, Green Co., 9,275 cu.yd. ditch borrow at $0.40 686 cu.yd. borrow $0.65, 5,717 cu.yd. channel change $0.70, 8,041 cu.yd. earth excav. $0.65, 12,503 cu.yd. solid rock excav. $1.45, 28,482 sq.yd. concrete surfacing, etc. $1.21, total $84,421. Grand total $398,288.

Wisconsin — State Hy. Comn., Madison, grading and gravel surfacing, etc., 7.1 mi. Elcho-Monico Rd., Federal Aid Project 380-A, Oneida Co., to R. Paulson, Granton, $69,486; 6 mi. Hawkins-Catawba Rd., Federal Aid Project 371-A, Price Co., and 7.1 mi. Clifford-McCord Rd., Federal Aid Project 335-A, Lincoln and Oneida Counties, to Stuebs & Sloan, Forestville, $41,587 and $72,595 respectively. Grand total $183,658.

Wisconsin — State Hy. Comn., Madison, grading, concrete surfacing, etc., 10,873 sq. yd. Stanley-Thorp Rd., Federal Aid Project 301, and 2,304 sq.yd. Thorp-Withee Rd., Federal Aid Project 403-A, both Clark Co., to A. R. Garnock, Eau Claire, $19,441 and $54,520 respectively.

Wis., Appleton — Outagamie Co. Hy. Comn., vibrolithic concrete paving Dodge St. in Kaukauna, to McCarthy Constr. Co., Kaukauna, $18,391; and Shiocton-Bear Creek Rd., Project 3980, to Norder & Tate, Bear Creek, $29,123.

Wis., Fond du Lac—Fond du Lac Co. Hy. Comn., grading, etc., Marblehead-County Line Rd., Application 149, and Rosendale Center-Dodd School Rd., Application 219, to A. Mews, Auburndale, $13,205 and $14,223 respectively; Rogersville-Eldorado-North County Line Rd., Application 221, to A. J. Heagle, Oakfield, $18,845; Brandon-Kohls Corners Rd., Application 164, to Wilkinson & Braatz, Waupun, $17,888. Grand total $64,161.

Wis., Madison—H. C. Buser, city clk., to J. F. Icke, Washington Bldg., rein.-con. paving West Wilson St. $53,500, Spaight St., $66,500, Fox Ave. $5,750, Main St. $8,400, and Mason St. $4,900; to O'Dea & Schafer, Gen. Del., Chadbourne Ave. $3,150, Prospect Ave. $3,700; to N. Quinn, 515 West Johnson St., St. Paul Ave. and 2nd St. $9,560. Grand total $155,460. Noted May 21.

Wis., Milwaukee — Dept. Pub. Wks., to Czerwinski Constr. Co., 775 National Ave., concrete surfacing Freemont Pl. between Adams and Howell Ave. $7,463, 7 in. vibrolithic concrete paving Atkinson Ave. between 27th St. and Hempstead Ave. $49,454, Vienna Ave. between 1st St. and Green Bay Ave., $28,459; to Badger Constr. Co., 97 Wisconsin Ave., asphalt resurfacing 11th Ave. between National and Greenfield Aves. $20,102, 27th St. between Grand Ave. and Cedar St. $4,923; to R. H. Gumz, 831 13th Ave., vibrolithic concrete paving Montana St. between Pine and Howell Aves., $15,754; to F. Blodgett, 521 Newton Ave., concrete paving 5 alleys $19,881; to Bodemann Constr. Co., 691 48th St., 2 alleys $4,536, to Parkinson Constr. Co., 322 27th St., 1 alley $1,948. Grand total $155,279. Noted May 7.

Wis., Milwaukee—R. E. Stoelting, comr. Dept. Pub. Wks., to W. F. Hunt, 405 Bway., vibrolithic concrete paving, etc., Lake St. between 14th and 19th Sts. $39,477, Burleigh St. between 27th and 35th Sts. $29,500, Edgewater Ave. and Humboldt Ave. E. $6,673, Lincoln Ave., etc., $41,397, to J. Bluhm & Son, 1298 Achilles Pl., 57th St. between Vliet and Vine Sts. $20,235, to Kroenig Constr. Co., 39th Ave. and Mitchell St., Holt Ave., etc., $130,471, to A. Retzlaff, 868 Island Ave., east half of 60th St., $6,522; to Badger Constr. Co., 78 Wisconsin St., asphalt paving 11th St. between State St. and Grand Ave., $17,771; to A. Schroeder, 20th St. and Atkinson Ave., grading, etc., 23rd St. between Lake and Hope Sts., $6,736, and 25th St. between Lake and Franklin Sts., $6,329. Grand total $305,111. Noted May 7 and 21.

Ia., Ida Grove — Ida Co., grading, etc., 114,000 cu.yd. Battle Creek-Cushing Rd., to G. W. Condon, 510 Farnum Bldg., Omaha, Neb.

Minn., Moorhead—R. G. Price, city clk., 7.5 in. rock concrete paving 7th St. S. between 1st and 9th Aves., to W. E. Kennedy Co., 7 Bway., Fargo, N. D., $37,892. Noted Apr. 20.

Minn., St. Cloud — Bitulithic concrete paving 32 blocks various streets, to McCann, Hibbing, $162,970. Noted Apr. 2.

Minn., St. Paul — H. W. Austin, city purch. agt., sheet asphalt paving about 11,022 sq.yd. Wheelock Parkway, to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., $49,488. Noted Apr. 23.

Neb., Tecumseh — W. J Devenney, city clk., City Hall, May 5, curbing, guttering and 6 in. rein.-con. surfacing 10,212 yd. streets in Dists. 2 and 3, to Asplund Constr. Co., Tecumseh, $35,497. Noted Apr. 23.

Neb., Wymore — J. M. Fiesselman, city clk., grading, curbing and 1.5 in. Willite asphalt on 3.5 in. black paving 8,500 sq.yd., Dist. 6, to J. B. Watts, Concordia, Kan., $34,917, incl. engineering costs. Noted May 7.

Wyoming — State Hy. Dept., Cheyenne, grading and constructing 56 ft. I-beam bridge, on Upton-Moorcroft Rd., Federal Aid Project 185-A, Weston Co., to R. L. Wiley, Gillette, $19,568; grading, bridging and surfacing 9 mi. Cheyenne-Torrington Highway, Federal Aid Project 182-A, Goshen Co., to F. McCarter, Bayard, Neb., $64,019; grading, surfacing and constructing 4 timber bridges on Gillette-Arvada Rd., Federal Aid Project 181-A, Campbell Co., to Watts Bros., Constr. Co., Buffalo, $50,496; grading and culverts on 10.8 mi. Bosler-Wheatland Rd., Federal Aid Project 172-B, Albany Co., to Keahey & Son, Wheatland, $21,182; grading and constructing 1 concrete culvert on 5.6 mi. Rawlins-Parco Rd., Federal Aid Project 186-A, Carbon Co., to H. Larsen, Rawlins, $21,266; grading and culverts on 22 mi. Green River Evanston Rd., Federal Aid Project 180-A, Sweetwater Co., to F. A. Bundy, Cheyenne, $72,370, 25 mi. Casper-Muddy Gap Rd., Federal Aid Project 164-B, Natrona Co., to Sharrock & Pursell, Casper, $48,333. Grand total $297,234.

Mo., Clayton—Eight Thousand Realty Co., c/o E. Davis Realty & Mortgage Co., 1101 Locust St., St. Louis, grading, curbing and 6.5 in. concrete paving North, South and Clayton Rds. in Davis Place Subdivision, here, to Fehlig-Ferrenbach Constr. Co., 3500 Hickory St., St. Louis. Engrs. est. approximately $100,000.

Mo., St. Louis—Bd. Pub. Wks., to Eyermann Constr. Co., 1216 South Grand Blvd., concrete curbing and paving 1,645 sq.yd. Alabama Ave. $7,470, granite curbing and concrete paving 3,910 sq.yd. Spring Ave. $17,374, vibrolithic concrete paving Shenandoah St., $21,214; to Skrainka Constr. Co., Security Bldg., granite curbing and rein.-con. paving 2,795 sq.yd. Christian Ave. $13,083, concrete curbing and rein.-con. paving 640 sq.yd. Newport Court, $3,274; to Parkinson Bros. Constr. Co., 3237 Carter Ave., granite curbing and concrete surfacing 1,820 sq.yd. Veronica St., $9,313; to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., granite curbing and asphaltic concrete paving 675 sq.yd. Berthold St. $4,069,840 sq.yd. Kuhs Pl., $5,430, 1,750 sq.yd. Ponce St., $7,900, 1,845 sq.yd. San Francisco St. $11,544, asphalt paving 1,475 sq.yd. Nebraska St., $5,150; to Webb-Boone Paving Co., 5121 Fyler Ave., asphaltic concrete paving Illinois Ave., $7,272, granite curbing and asphaltic concrete paving 1,350 sq.yd. Louisiana St., $8,622; to Central Paving & Constr. Co., 6161 Maple Ave., Willite paving 956 sq.yd. Gardenville Ave. $7,193, and 5,745 sq.yd. Shenandoah St., $23,865. Grand total $152,765. Noted Apr. 16.

Ark., Little Rock—Grading, curbing and bitulithic on concrete surfacing streets in Dist. 411, to Gregory & Wilson, Southern Trust Bldg., Little Rock, $41,213.

Tex., Dallas — Curbing and guttering various streets in new 74 acre residential district (not yet named), to J. F. Ketchey Cement Sidewalk Constr. Co., 4734 East Side, Dallas, approximately $35,000; concrete paving in same district, to R. J. Estep & Co., 812 Wilson Bldg., approximately $30,000.

Tex., Franklin—Robertson Co., grading and bridging 1.37 mi. State Highway 6, Federal Aid Project 401-B and C, 26 ft., to Montgomery & Minter, Willis, $28,714. Engrs. est. $30,000. Noted Apr. 16.

Tex., Galveston—Improving 20th Ave., Avenues G, D, H, O and to H. J. Hetkes, 3113 R ½, Galveston, $91,171. Engrs. est. $95,000.

Tex., Hebbronville—Jim Hogg Co., clearing, grubbing, grading, bridging and caliche surfacing 5.49 mi. State Highway 12-A, Federal Aid Project 436-G, to W. W. Vann, Falfurrias, $25,372. Noted Mar. 26.

Tex., Memphis — Hall Co., grading, bridging, gravel surfacing, etc. 14,668 cu.yd. State Highway 18, State Aid Project 572, 16 ft., 10,673 lb. reinforcing, etc., to O. Spear, Alvord, $41,431. Engrs. est. $43,000. Noted Apr. 9.

Tex., Munday—Willite surfacing 6 blocks Ernest St., to Plans Paving Co., Wichita Falls, approximately $25,000. Noted Mar. 12.

Tex., Smithville — Paving 8,000 sq.yd. various streets, to W. E. Dozier, 230 Austin Natl. Bank Bldg., Austin, approximately $35,000.

Tex., Tyler—Smith Co., grading, curbing and brick on concrete surfacing 0.92 mi. State Highway 37, 42 ft., to McGuire & Cavender, Sherman, $77,717. Engrs. est. $50,000.

Tex., Waco—To Standard Paving Co., 1742 East 6th St., Tulsa, Okla., improving Bosque Blvd., Concord, Lasker, Washington and other streets, $8,795 sq.yd. asphalt using course grain aggregate at $1.38 per sq.yd., concrete at $2.49, 19,744 ft. curbing at $0.58, etc., total $266,184. Engrs. est. $275,000. Noted Feb. 26.

Oklahoma—State Hy. Dept., Oklahoma City, grading and concrete surfacing 7.8 mi. road east of Enid, 30 ft., Federal Aid Project 179, Garfield Co., to Hyde Constr. Co., Amer. Bank Bldg., Enid, $229,246. Engrs. est. $250,000. Noted May 21.

Colo., Denver — Dept. Impvts. & Parks, (e. e. means engrs. est.) asphaltic paving 12 blocks Capitol Hill Paving Dist. 17, to Levy Constr. Co., Symes Bldg., $39,863, e. e. $47,357; 12 blocks in Dist. 18, to Western Paving Constr. Co., 5230 Washington St., $44,686, e. e. $52,664; 12 blocks in Dist. 19, to New Mexico Constr. Co., 4015 Galapago St., $45,470, e. e. $54,137; and 12 blocks in Dist. 20, to Allied Contractors, Majestic Bldg., $50,330, e. e. $60,160. Noted Apr. 23.

Arizona—W. C Lefebvre, state highway engr., Phoenix, improving Tuscon-Nogales Highway, Federal Aid Project 86-A, to Downer & Fredell, Flagstaff, for State Hy. Dept. $122,422. Noted Apr. 23.

Wash., Montesano — Grays Harbor Co., clearing and grubbing 3.4 mi. Permanent Highway 28, to J. M. Webb, Montesano, $27,775. Engrs. est. $30,000.

Wash., Seattle—Bd. Pub. Wks., paving 44th Ave. S. W. et al., to J. B. Covello, 1510 16th St., $124,067; North 35th Ave. et al., to McHugh & Coluccio, 517 3rd St., $28,431; 5th Ave. N. E. et al., to F. N. Badolato, Box 561, $25,951. Grand total $178,449.

Oregon—State Hy. Dept., Salem, grading 8.15 mi. Redwood Highway, Josephine Co., to Dunn & Baker, Hornbrook, Calif., $58,395, 7.59 mi. Flora Highway, Walla Walla Co., to Morrison & Knudson, Railroad and Reclamation Aves., Boise, Idaho, $51,818. 2.46 mi. Roosevelt Highway, Lincoln Co., and 4.56 mi. Roosevelt Highway, Douglas Co., to Joplin & Eldon, Portland, $63,910 and $66,527 respectively; crushed stone surfacing 18.96 mi. Oregon Trail, Union and Baker Counties, to A. D. Kern, Portland, $108,190; broken stone surfacing 8.64 mi. Prineville Lake View Highway, Lake Co., to H. J. Hildebrand, Roseburg, $47,015; paving 8.9 mi. Columbia Highway, Clatsop Co., to Simonson & Hefty, Portland, $261,402, 2.73 mi. Blachly Sect. Florence Highway, Lane Co., to K. C. Hall, Eugene, $40,530. Grand total $697,787.

Oregon—State Hy. Comn., Salem, grading, etc., 12.36 mi. John Day Highway, Baker and Malheur Counties, to K. L. Goulter, Port Angeles, Wash., $172,891; widening roadbed 2.58 mi. Old Oregon Trail, Umatilla Co., to Swartley Bros., Corvallis, $85,649; concrete paving, etc. 4.2 mi. highway in Linn and Lane Counties, to G. W. Reed, Eugene, $105,207; broken stone surfacing 8.2 mi. Alsea Highway, Benton and Lincoln Counties, to Cummins & Wright, McMinville, $48,225, and 19.34 mi. The Dallas California Highway, Deschutes Co., to A. M. McDonnell & Co., Portland, $142,430. Grand total $554,402.

Calif., Arcadia — Oil macadam paving, curbing, etc., 4th Ave. between Duarte and Valenett St., and portions Fairview Ave. and Huntington Dr., to J. M. Shull Co., Riverside, approximately $25,400.

Calif., Ceres—Improving 4th, 5th, Parker Sts., etc., 113,215 ft., 5 in. concrete paving, 88,368 sq.ft. grading, etc., to T. Beresford, P. O. Box 1026, Richmond, $30,205.

Calif., Chico—Curbing, sidewalks, etc., in Chapmantown Section, to C. W. Cushing, 2005 Roosevelt Ave., Richmond, approximately $35,000.

Calif., Compton — Improving Compton Ave., Kemp St., etc., to G. H. Oswald, 366 East 58th St., Los Angeles, approximately $100,200. Noted Apr. 23.

Calif., Glendale—For 3 in. oil macadam paving 105,500 sq.ft. Eaton, Orchard Sts., etc., to C. L. Hill, 516 South Glendale Ave., $37,505.

Calif., Los Angeles—Improving Canyon Dr., Wilshire Blvd. etc. in Beverly Hills section, to J. L. McClain, 3452 West Slauson Ave., $34,145. Noted Feb. 5.

Calif., Los Angeles—Los Angeles Co., improving San Gabriel Blvd., (City Boundary Impvt. 11), 13,415 sq.yd. 2 to 3 in. asphalt on 6 in. macadam paving, 80,000 sq.ft. cement sidewalks, etc., to Johnson & Sons, 4183 Normandie Ave., Los Angeles, $71,546.

Calif., San Bernardino—Paving, curbing, sidewalks, etc., on portions of H St., Moun-

Streets and Roads (Continued)

tain View and Mt. Vernon Aves., etc., to G. Herz & Co., San Bernardino, approximately $475,000.

Calif., San Bernardino—San Bernardino Co., 6 in. macadam paving, with 4 ft. graded shoulder on each side Ely St., to Pierson & Dickerson, Riverside, $29,917.

Calif., Santa Barbara—Grading, curbing, guttering and 1½ in. asphaltic concrete surface paving Santa Barbara St. between Carrillo and New De La Guerra Sts., to Cornwall Constr. Co., 227 Equestrain St., $52,195.

Calif., Santa Monica—Asphaltic concrete paving, warrenite bit. surfacing, curbing, etc., Marine St., to Kneen Paving Co., Dudley Blk., $45,588.

Calif., Stockton—Improving East Main St., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, $75,802. Noted Apr. 16.

Ont., Kitchener—Cement paving various streets, to J. Schultz, 15 Sterling Ave., $50,000.

Ont., St. Thomas — Cement and asphalt paving various streets, to Standard Paving Co., Central Chambers, Ottawa, $50,000.

Ont., Stratford—A. B. Manson, city engr., concrete paving various streets, to Brennan Paving Co., 100 Melrose Ave., Hamilton, $70,000.

Buildings—Industrial

PROPOSED WORK

Vt., Manchester Depot—PLANT—N. D. Cass Co., 62 Canal St., Athol, Mass., plans reconstructing plant, recently destroyed by fire. $125,000. Engineer and architect not selected.

Mass., Brockton — FACTORY — T. D. Barry & Co., Court St., plans shoe factory, Court St. $40,000 or more. Engineer and architect not selected.

Mass., Malden (Boston P. O.)—PLANT—Boston Rubber Shoe Co., 130 Essex St., Boston, plans reconstructing plant recently destroyed by fire Commercial St. here. $40,000 or more. Engineer and architect not selected.

Mass., Quincy (Boston P. O.)—REPAIR and SERVICE GARAGE—Owner, c/o H. A. Mears, archt., 120 Tremont St., Boston, having preliminary plans prepared 2 story, brick repair and service garage. $40,000.

Conn., East Hartford (br. of Hartford) —FREIGHT TERMINAL—See "Railways under Connecticut."

N. Y., Long Island City—PLANT—J. D. Johnson Co., Inc., 5th and Washington Aves., having plans prepared by Moore & Landsiedel, archts. and engrs., 148th St. and 3rd Ave., New York City, 1 story, 100 x 190 ft., rein.-con., brick and steel storage plant, plain foundation, 5th Ave. $75,000.

N. Y., New York — FACTORY — R. G. Cory, engr. and archt., 30 Church St., takes bids about June 15, 6 story, rein.-con., brick and steel, plain foundation, Varick St., for Denver Chemical Mfg. Co., 20 Grand St. $200,000.

Md., Highlandtown (Ind. Sta. Baltimore) —PLANT—A. Weiskittel & Sons Co., Lombard and 12th Sts., plans rebuilding boiler and engine rooms, foundry, etc., recently destroyed by fire. $200,000 damage.

Fla., Tallahassee—POWER PLANT—See "Dams."

O., New Philadelphia—POWER PLANT —City plans new power plant. $50,000-$60,000.

Mich., Essexville—PLANT—Aetna Portland Cement Co., 412 Union Trust Bldg., Detroit, having plans prepared rein.-con. and steel addition, plain foundation. $1,000,000. Private plans.

Ill., Bartonville — SUB-STATION — See "Unclassified."

Ill., Peoria—WAREHOUSE and OFFICE —Isaac Walker Hardware Co., 514 South Washington St., plans rebuilding 4 and 5 story and basement, rein.-con., brick and steel, plain foundation, 514 South Washington St., recently destroyed by fire and storm. $150,000. Engineer and architect not selected.

Wis., Park Falls — SAW MILL — Park Falls Lumber Co., owned by E. Hines Lumber Co., 2431 South Lincoln St., Chicago, Ill., decided not to rebuild saw mill recently destroyed by fire. Noted May 21.

Wis., Racine — FOUNDRY — Lakeside Malleable Casting Co., 23rd and Clark Sts., plans 1 story, 80 x 300 ft., brick and steel, plain foundation, 23rd St. Engineer and architect not selected. This corrects report in Apr. 23 issue.

Mo., Kansas City—BAKERY—Campbell Baking Co., 3219 Troost Ave., owned by Continental Baking & Milling Corp., 6 North Michigan Blvd., Chicago, Ill., having plans prepared 3 story and basement, 148 x 190 ft., rein.-con. addition plain foundation, 30th and Troost Aves. $300,000. Private plans.

Tex., Dallas—PLANT—C. R. Miller Mfg. Co., c/o C. R. Miller, pres., 622 Santa Fe Bldg., having plans prepared brick, steel and stone flexible plant 180 yds. per minute capacity. $45,000. Robert & Co., Red Cross Bldg., engrs. Noted Feb. 5.

Tex., Pecos—PLANT and COMPRESS—B. Hester, Pecos, plans cotton compress and fumigating plant, brick and rein.-con. $60,000.

Tex., Plainview — MILL — W. P. Allen, 609 Griffith St., Terrell, and J. M. Hardaway having tentative plans prepared oil mill, brick and concrete, here. $125,000. Private plans.

Tex., San Antonio — BAKERY — Campbell Baking Co., 30th and Troost Sts., Kansas City, Mo., E. C. Carlson, 5632 Bell St., branch mgr., making tentative plans rein.-con., brick and stone, bakery, 60,000 loaves per day capacity. $250,000.

Tex., Victoria — ELECTRIC LIGHT PLANT—See "Waterworks."

Calif., Long Beach — PLANT — Natl. Bakery, 1790 Locust St., had plans prepared part 1 and 2 story, 100 x 117 ft., brick and steel, on Daisy Ave. To exceed $40,000. Private plans.

Calif., Los Angeles—FACTORY—Davenport Mfg. & Implement Co., 1032 East 1st St., having plans prepared group of buildings, incl. 1 story main building; 2 story, 90 x 150 ft. sample, storage, setting up buildings, steel plant, foundry and woodworking shop, brick and steel, Atlantic and Manchester Aves. Owner will probably construct by day labor. Private plans.

Calif., San Andreas—PLANT—Calaveras Cement Co., 900 California Commercial Bldg., San Francisco, had plans prepared 4,000 bbl. cement plant. G. B. Poor, c/o owner, consult. engr. Southern Pacific R.R. Co., 65 Market St., San Francisco, plans 11 mi. railroad in connection with above project, to run from Valley Springs to plant. $2,000,000.

Calif., Watsonville—PLANT—Union Ice Co., 354 Pine St., San Francisco, having plans prepared by Davis-Heller-Pearce, Inc., Delta Bldg., Stockton, cold storage and ice plant, rein.-con., here. $350,000. Noted Aug. 26.

B. C., New Westminister—PLANT, etc.—Frye & Co., 9th and Walker Sts., Seattle, Wash., having plans prepared cold storage plant and packing house at Safferton, near here. $500,000. Private plans.

B. C., Vancouver—MILL—Robertson & Hackett Co., False Creek, near here, plans rebuilding lumber mill, recently destroyed by fire. $300,000 loss.

BIDS DESIRED

Mass., Framingham — FACTORY — Dennison Mfg. Co. taking bids 2 story, 60 x 130 ft., brick and steel factory. $70,000. Bigelow & Wadsworth, 3 Hamilton Pl., Boston, archts.

Mass., Lynn—SHOP and GARAGE—Bureau Water Com. taking bids 2 story, 50 x 142 ft., rein.-con., shop, garage and storage building, Bennett St. $75,000. R. F. Hand, City Hall, archt. Noted May 14.

R. I., Providence — SWITCH HOUSE — Narranganset Electric Lighting Co., taking bids 4 story, 25 x 30 ft., brick and stone extension, Eddy St. Jenks & Ballou, 10 Weybossett St., engrs.

Ga., Fayetteville — POWER PLANT — June 1, by Mayor and City Council, electric light plant and waterworks, incl. 9½ mi. transmission line, tank on tower, deep well, pump, generators, motors, engines, pipe line, etc. J. M. McCrary, Citizens & South Bank Bldg., Atlanta, engr.

Calif., Long Beach—PLANT—Natl. Baking Co., 1790 Locust St., taking bids part 1 and 2 story, 100 x 120 ft., brick and steel, Daisy St. Private plans. Noted May 28.

Que., Thurso—PLANT—Singer Mfg. Co., Thurso, taking bids 2 mills. Noted Jan. 22.

CONTRACTS AWARDED

Mass., Boston — GARAGE and REPAIR SHOP—S. S. Pierce Co., 25 Jersey St., 2 story, 90 x 130 ft., flat slab rein.-con. garage and repair shop, to Morton C. Tuttle Co., 862 Park Sq. Bldg.

Mass., Cambridge (Boston P. O.)—REPAIR and SERVICE GARAGE — Dunster Realty Co., c/o E. B. Stratton, archt., 25 Arch St., Boston, 1 story, 70 x 120 ft., rein.-con. and brick addition, Mt. Auburn and Boylston Sts., to Turner Constr. Co., 178 Tremont St., Boston. Archts. est. $60,000. Noted Apr. 16.

Mass., Great Barrington—REPAIR and SERVICE GARAGE—J. T. Harper, 1 story, rein.-con., Main and Bridge Sts., to J. R. Hampson & Co., Inc., 184 North St., Pittsfield. Archts. est. $40,000.

Mass., Hyde Park (Boston P. O.) — STORAGE—Tileston & Hollingsworth, 862 River St., 2 story and basement, rein.-con. and steel plain foundation, 592 River St., to M. C. Tuttle, Park Sq. Bldg., Boston. Archts. est. $150,000.

Mass., Hyde Park (Boston P. O.) — WAREHOUSE, etc.—Tileston & Hollingsworth, 862 River St., 2 story and basement, 100 x 120 ft. rein.-con. and steel warehouse, and 2 story, 25 x 80 ft. deinking building, concrete and steel, etc., to Morton C. Tuttle Co., 862 Park Sq. Bldg., Boston.

R. I., Providence — GARAGE — Amer. Radiator Wks., 216 Aborn St., 1 story, 50 x 200 ft., brick and steel, Aborn St., to J. E. Cole, 1046 Cranston St. Archts. est. $75,000.

Conn., Milldale—FACTORY—Clark Bros. Bolt Co., 1 story, 45 x 125 ft., brick addition, to Immick Co., State St., Meriden. Archts. est. $40,000.

Conn., Mystic — MILL — Sadonia Mills, Industrial Pl., 1 story, 105 x 150 ft., brick and steel mill, to Pardy Constr. Co., 1481 Seaview Ave., Bridgeport. Archts. est. $45,000.

N. Y., New York—POWER PLANT—New York Edison Co., 15th St. and Irving Pl., general contract 7 story, 207 x 1,100 ft., rein.-con. and brick, 14th St., to Kenn-Well Contg. Co., 45 East 17th St., engrs. est. $50,000,000; erecting steel to Post & McCord, 101 Park Ave., est. $2,000,000.

N. J., Newark — FACTORY — Pittsburgh Plate Glass Co., Chester Ave., 5 story, rein.-con., brick and steel, plain foundation, Chester Ave., to Dwight P. Robinson, 125 East 45th St., New York City, Archts. est. $200,000.

Pa., Phila.—PLANT—Harris & Richards, archts., Drexel Bldg., 1 story and gallery, 120 x 250 ft., 23 x 142 ft. and 79 x 231 ft. wings, 15 x 250 ft. train shed and 50 x 58 ft. dry kiln, rein.-con. and brick additions to Building 4, plain foundations, Elmwood Ave. between 68th and 70th Sts., to Turner Constr. Co., 1713 Sansom St., for General Electric Co., Witherspoon Bldg. Noted May 14.

Pa., Phila.—WORKSHOP—Phila. Storage Battery Co., Ontario and C Sts., 1 story and basement, 40 x 100 ft. workshop, to G. H. Evans, 105 North 13th St.; also 3rd and 4th story rein.-con. and brick addition, plain foundation, to Stewart Bros., 2526 North Orkney St., archts. est. $45,000.

Pa., Pittsburgh—FACTORY—Auto Truck Equipment Co., 7511 Pennsylvania Ave., 2 story and basement, concrete and steel addition, Meade St., to Taylor Meyer Co., 811 Keystone Bldg. Archts. est. $40,000.

Pa., Retreat—POWER HOUSE—Luzerne Co. (Wilkes-Barre), will build 1 story and basement, 45 x 90 ft., brick, plain foundation at Luzerne Co. Mental Hospital, here. Work will be done by day labor under supervision of L. T. Klauder, engrs., Bankers Trust Bldg., Philadelphia.

Mich., Pontiac—PLANT—Wilson Fdry. & Machine Co., South Saginaw and Wilson Sts., 3 story, 100 x 400 ft., rein.-con. and brick assembly plant, and 1 story, 60 x 200 ft., concrete and brick test building, South Saginaw St., to Pryale Constr. Co., 701 Pontiac Commercial & Savings Bank Bldg. Archts. est. $1,000,000.

Mo., Kansas City—FACTORY—Burlington Overall Mfg. Co., 900 Washington St., will build (2nd unit) 3 story and basement, 50 x 132 ft., brick, plain foundation, 9th and Washington Sts., by day labor. $50,000. Greenebaum, Hardy & Schumacher, Scarritt Bldg., archts.

Mo., St. Louis—PLANT—Laclede Gas Light Co., 11th and Olive Sts., 12,000,000 cu.ft. liquid purification plant, three 10 in. and two 7 in. gas producers, etc., to Koppers Co., Union Trust Bldg., Pittsburgh, Pa.

Mo., St. Louis — FACTORY — A. Manheimer & Co., 14th St. and Locust Blvd., will build 2 story and basement, 46 x 145 ft., rein.-con. and brick, Cook Ave., by day labor under supervision of B. J. Charleville, archt., 312 Calumet Bldg. $65,000.

Mo., St. Louis—SUB-STATION—Union Electric Light & Power Co., 12th and Locust Blvds., 1 story and basement, 37 x 43 ft., and 20 x 80 ft., rein.-con. and brick, Kingshighway, to Fruin Colnon Constr. Co., Merchants-Laclede Bldg.

Calif., Bakersfield—PACKING PLANT—Di Giorgio Farms Co., Inc., 1 story, 128 x 320 ft., concrete and timber packing plant, to Graham & Son, Dinuba, $47,500.

Calif., Delano—PACKING PLANT—Earl Fruit Co., 1 story, 125 x 200 ft., concrete and timber plant, to Graham & Son, Dinuba, $47,000.

Buildings—Commercial

PROPOSED WORK

Mass., Allston (Boston P. O.)—STORE—H. and L. Dana, 20 Pemberton Sq., Boston, having plans prepared by F. A. Norcross, 46 Cornhill St., Boston, 3 story and basement, brick, 182-188 Harvard Ave., here. $150,000.

Mass., Boston — HOTEL — C. H. Blackall, 20 Beacon St., having sketches made by Blackall, Clapp & Whittemore, 20 Beacon St., 17 Story and basement, brick and limestone Tremont St., opposite Hollis St. $2,000,000.

Mass., Boston—MARKET—City plans reconstructing 1 story and basement, market recently damaged by fire. $150,000 appropriated. Engineer and architect not selected.

Mass., Boston—OFFICE and STORE—Bowdoin Square Co., R. M. Dobbins, 209 Washington St., having plans prepared by R. H. Doane, 162 Newbury St., 2 story and basement, 11,000 sq.ft. floor space, brick and stone, Court and Bulfinch Sts. $150,000.

Mass., Boston—STORE and GARAGE—S. Lebowich (lessee) 277 School St., plans remodeling and constructing 2 or more story and ramp garage, Columbus Ave., Bway., Elliot and Stuart Sts. for Estate E. B. Jordan. To exceed $150,000. Engineer and architect not selected.

Mass., Cambridge—WAREHOUSE—G. E. Prebble, 485 Massachusetts Ave., having sketches made by W. E. Cotter, store and warehouse, 798 Massachusetts Ave. $150,000 or more.

Mass., Lynn—TEMPLE—Temple Bethel, H. Yozell, chn. com., raising $150,000 funds, brick and stone, Breed and Lewis Sts. Engineer and architect not selected.

Mass., Quincy (Boston P. O.)—TEMPLE—Masonic Building Assn., Inc., A. E. Sargent, chn., raising $30,000 funds for 2 or more story masonic temple, Hancock St. Engineer and architect not selected.

Mass., Quincy (Boston P. O.)—THEATRE — Natl. Theatre, c/o Tuck & Co., archts., 636 Warren St., Roxbury, having plans prepared 2 story and basement, 60 x 200 ft., brick and steel, Hancock and Beals Sts. $180,000.

Mass., West Medford (Boston P. O.) — APARTMENT — Brentwood Court Corp., c/o Whitten & Gore, archts., 31 Milk St., Boston, having plans prepared 3 story and basement, 112 x 136 ft., rein.-con., brick and stone, plain foundation. $250,000.

R. I., Olneyville (Providence P. O.) — BUSINESS and THEATRE—J. Conn, c/o Gaiety Theatre, Westminster St., Providence, plans business building and theatre, Bway. and Westminster St., here. $250,000. Engineer and architect not selected.

R. I., Providence—APARTMENT—Puritan Developmen' Corp., having plans prepared by W. I. Hohauser, 1400 Bway., New York City, 6 story and basement, rein.-con., brick and steel, Angell and Wayland Aves. $750,000.

Conn., Danbury — DORMITORY — State Normal School having plans prepared by Sunderland & Watson, 248 Main St., new dormitory, White St. $300,000. Noted Feb. 12.

Conn., Hartford — APARTMENT and STORE — W. Rulnick, 91 Magnolia St., having plans prepared by Berenson & Moses, 30 Allyn St., 3 story and basement, 70 x 130 ft. brick and steel, Albany Ave. $150,000.

Conn., Stamford — WAREHOUSE — W. Schoeffer & Son, 30 Worth St., soon takes bids 4 story and basement, 50 x 100 ft., brick and steel, plain foundation, Worth St. $150,000. Moores & Dunford, 110 East 42nd St., New York City, archts. Noted Apr. 2.

N. Y., Brooklyn — APARTMENT — A. Klein, c/o E. M. Adelsohn, archt. and engr., 1776 Pitkin Ave., having plans prepared 4 story, 100 x 106 ft., brick, steel and stone, plain foundation, Troy Ave. and Montgomery St. $200,000.

N. Y., Buffalo—STORE—E. W. Edwards & Son, 460 Main St., plans store, Genesee and Mohawk Sts. To exceed $500,000.

N. Y., Long Island City—THEATRE, OFFICE and STORE—Murtha Realty Corp., A. J. Kerwin, pres., c/o W. H. Birkmires Sons, archts., 1819 Bway., New York City, having plans prepared brick, steel and stone, plain foundation, Crescent St. $200,000.

N. Y., New York — HOSPITAL and NURSES HOME—Bellevue & Allied Hospitals, foot East 24th St., having preliminary plans prepared by Starrett & Van Vleck, archts. and engrs., 393 7th Ave., brick, steel and stone, plain foundation, Gouverneur Slip. $250,000.

N. Y., New York—LOFT—J. C. Forster, 724 8th Ave., plans 16 story, 100 x 107 ft. loft building, 438 West 38th St. Engineer and architect not selected.

N. Y., New York — LOFT — Lee Investment Co., W. Berman, pres., c/o H. I. Feldman, archt. and engr., 562 5th Ave., having plans prepared 16 story, brick, steel and stone, plain foundation, 319 West 39th St. $1,000,000.

N. Y., New York—OFFICE—A. Heckscher, 50 East 42nd St., plans 15 story, brick, steel and stone, plain foundation, Park Ave. and 56th St. $3,000,000.

N. J., Asbury Park—HOTEL—T. H. Beringer, Jr., et al., Deal, having plans prepared by Warren & Wetmore, 16 East 47th St., New York City, 7 story hotel, 200 ft. along Ocean Ave., here. $1,000,000.

N. J., Atlantic City—APARTMENT—C. H. Fries, archt., Drexel Bldg., Phila., Pa., preparing plans 6 story and basement, 60 x 125 ft., brick and steel, Chelsea Ave. $275,000. Owners name withheld.

N. J., Jersey City—BANK and OFFICE—Universal Security Co., Concourse, soon takes bids 8 story, 25 x 50 ft. brick, steel and stone, plain foundation, Hudson Blvd. Clinton & Rus 'l, 100 Maiden Lane, New York City, archts. and engrs.

Pa., Erie — BANK and OFFICE — Erie Trust Co., had plans prepared by Dennison & Hirons, 288 Lexington Ave., New York City, 20 story, brick, steel and concrete.

Pa., Fox Chase (Phila. P. O.) — HOSPITAL and INFIRMARY — Society of Friends, 15th and Race Sts., Phila., have plans prepared by Heacock & Hokanson, 1211 Chestnut St., Phila., Jeannes Memorial Hospital and Infirmary, at Stapley Farms, near here. $1,000,000.

Pa., Phila.—BANK—Phila. Savings Fund Society, 700 Walnut St., plans 132 x 164 ft. bank, 12th and Market Sts.

Pa., Phila.—HOSPITAL—Pennsylvania Hospital, 8th and Spruce Sts., plans hospital addition. $200,000. Zantzinger, Borie & Medary, Otis Bldg., archt.

Pa., Phila.—HOSPITAL—Pennsylvania Hospital Dept., Mental & Nervous Diseases, 49th and Market Sts., plans hospital addition. $200,000. A. H. Brockie, 254 South 5th St., archt.

N. C., Winston-Salem—HOSPITAL—Bd. Comrs. Forsyth Co., election June 16, $200,000 bonds, for tuberculosis hospital. O. B. Eaton, Winston-Salem, chn.

Fla., Davenport — HOTEL — Holly Hill Groves & Fruit Co., L. A. Wilson, pres., 772 West Bay St., plans 7 story hotel, Wilson Park. $400,000.

Fla., Haines City—HOTEL—R. Polk & associates having plans prepared by F. Wallick, 308 Hume-Mansur Bldg., Indianapolis, Ind., 9 story hotel, Hinson Ave. between 8th and 9th Sts. $260,000.

Fla., Okeechobee — COURT HOUSE — Legislature authorized Okeechobee Co. to construct court house. $200,000. J. G. Hyde, Miami, archt.

Fla., St. Petersburg—HOTEL—E. C. McBride, St. Petersburg, soon lets contract 11 story, 57 x 130 ft., 7th Ave. and Handly Ave. $250,000. W. Powell, Tampa, archt.

Fla., St. Petersburg — OFFICE — West Coast Holding Co., J. M. Brown, chn. building com., having plans prepared by F. J. Kennard & Son, Kraus Bldg., Tampa, 10 story and basement, brick, 4th Ave. N. $400,000.

Tenn., Chattanooga—BANK and OFFICE—Chattanooga Savings & Trust Co., plans modern bank and office building, Broad and Market Sts. $300,000.

O., Cleveland — APARTMENT — Park-Overbrook Realty Co., c/o G. Ebeling, archt., Hunkin-Conkey Bldg., having preliminary plans prepared 4 story and basement, 66 x 130 ft., brick and steel, Park Lane. $250,000.

Ind., Elwood—HOSPITAL—Sisters of St. Joseph, Tipton, having plans prepared by D. A. Bohlen & Sons, 1001 Majestic Bldg., Indianapolis, 2 story and basement, 66 x 140 ft., rein.-con., brick and steel, plain foundation. $150,000.

Mich., Detroit — APARTMENT — F. M. Shimmack, Rochester, having plans prepared by F. J. Winter, 2331 Dime Bank Bldg., 4 story and basement, 83 x 203 ft., brick and steel, plain foundation, Grand River Ave. $375,000.

Mich., Detroit — APARTMENT — Miller Palmer Subdivision, c/o C. E. Schley archt., 1121 Lafayette Bldg., having plans prepared 4 story and basement, 120 x 180 ft., brick, steel and stone, plain foundation, Palmer Ave. $200,000.

Mich., Detroit—OFFICE—Maccabees, A. W. Frye, Supreme Commander, Woodward and Putnam Aves., having plans prepared by A. Kahn, 1,000 Marquette Bldg., 10 and 14 story, rein.-con., brick and steel, plain foundation, Woodward Ave. $2,500,000.

Mich., Detroit—Y. M. C. A., A. G. Studer, genl. secy., Y. M. C. A. Bldg., plans 7 branch buildings rein.-con., brick and steel, incl. swimming pools, etc., in various sections of city. $5,500,000. Engineer and architect not selected.

Mich., Flint — COURTHOUSE—Supervs. Genessee Co. having plans prepared by F. D. Madison, Royal Oak, 3 story and basement, 79 x 171 ft., rein.-con., brick and steel, plain foundation. $750,000.

Mich., Jackson—OFFICE—R. W. Reynolds, 176 Michigan Ave., having preliminary plans prepared by A. Kahn, 1000 Marquette Bldg., 14 story and basement, about 75 x 110 ft., rein.-con., brick and steel, plain foundation, West Michigan Ave.

Ill., Chicago—APARTMENT—Clifford & Weisfeld, 111 Washington St., having plans prepared by Koenigsberg & Weisfeld, 155 North Clark St., 4 story and basement, 80 x 152 ft., brick and stone, plain foundation, 5463 Everett St. $500,000.

Ill., Peoria—OFFICE—Standard Oil Co. (Indiana), Bond and Voris Sts., Peoria having plans prepared by own engineers and architects, 910 South Michigan Ave., Chicago, 3 story and basement, 100 x 100 ft., rein.-con., brick and steel, plain foundation, Jefferson and Hamilton Sts. $500,000.

Wis., La Crosse—HOSPITAL—Merman & Skogstad, archts., Linker Bldg., soon lets contract 5 story and basement, 40 x 100 ft., brick and concrete hospital addition, for Grandview Hospital, 1707 Main St. $150,000. Noted Jan. 29.

Wis., Milwaukee—APARTMENT—C. J. Keller & Son archts., 432 Bway., soon lets contract 3 story and basement, 40 x 142 ft., brick and tile, plain foundation, 15th St., for I. H. Benesch Co., 513 Van Buren St. $150,000. Noted Apr. 23.

Wis., Milwaukee—APARTMENT—W. J. Kozick, archt., 664 26th St., soon lets contract 4 story and basement, 47 x 131 ft., brick and steel, plain foundation, 15th St., for Priebe Realty Co., 3401 Highland Blvd. $160,000. Noted Apr. 9.

Ia., Davenport—COMMUNITY HOUSE—Davenport Friendly House Society having plans prepared by Clausen, Kruse & Klein, 910 Kahl Bldg., 3 story and basement, 48 x 150 ft., rein.-con. and brick, community house, incl. auditorium, gymnasium, etc., 1220 West 3rd St.

Ia., Des Moines—TEMPLE—Sa Ga Sig Lodge, A. A. O. N. M. S., c/o S. H. Harlen, 702 South 6th St., takes bids probably in June, 12 story and basement, rein.-con., brick, steel and stone, Pleasant St. between 9th and 10th Sts. $1,000,000. Sawyer & Watrous, 401 Hippee Bldg., archts. Noted Mar. 19.

Kan., Salina—HOTEL—Owner, c/o L. Jones, secy., Amer. Bank Bldg., having plans prepared by R. A. Walker & Bros., 208½ West Central St., El Dorado, 7 story and basement, 49 x 125 ft., rein.-con. and steel hotel. $200,000 plus.

N. D., Bismarck—HOME—St. Alexius Hospital having plans made by Buechner & Orth, 500 Shubert Bldg., St. Paul, Minn., 3 or 4 story and basement, nurses' home, rein.-con., brick and stone. $150,000.

Mo., Kansas City—GARAGE—Interurban Central Station Co., c/o W. C. Scarritt, secy., Scarritt Bldg., plans 5 story and basement, 120 x 258 ft., brick and rein.-con., plain foundation, McGee and Oak Sts. $400,000. Engineer and architect not selected.

Mo., Kansas City—GARAGE and SALES ROOM — Schutte Investment Co., 3015 South West Blvd., having plans prepared by R. H. Sanneman, 519 Lee Blvd., 3 story and basement, rein.-con. and brick garage and sales room. $175,000.

Mo., Kansas City—STORE and OFFICE—F. G. Bonfils, 1500 East 10th Ave., Denver, Colo., having plans prepared by F. C. Gunn, 1108 Continental Bldg., 3 story (ultimately 12 story) and basement, 112 x 116 ft., rein.-con., brick and terra cotta, plain foundation, 12th and Grand Sts. $300,000.

Mo., St. Louis—DEPOT—Fidelity Transfer Co., 734 South 7th St., having preliminary plans prepared 1 story and basement, 127 x 176 ft., rein.-con. and brick Bway. and Dick St. $250,000. Private plans.

Mo., Webster Grove—HOME—Bethasda Home, 3649 Vista St., St. Louis, E. W. Saunders, pres., having preliminary plans prepared 8 or 10 story, rein.-con., brick and stone, Big Bend Rd. $400,000.

Mo., Wellston (St. Louis P. O.) — MAUSOLEUM — Laurel Hill Cemetery

Buildings—Commercial (Continued)

Assn., St. Charles Rd. and Ferguson Ave., making preliminary plans rein.-con.; brick and marble mausoleum. $1,000,000.

Okla., Hollis—COURT HOUSE—Harmon Co. election May 26, $150,000 bonds, 2 story and basement, 90 x 166 ft., brick, plain foundation, 2nd St. Tonnini & Framlett, Terminal Bldg., Oklahoma City, archts. Noted Feb. 5.

Wash., Seattle — APARTMENT — R. C. Stanley, archt., Lumber Exch. Bldg., takes bids about June 11, 3 story and basement, 103 x 120 ft., brick and cast stone, 4522 Brooklyn Ave., for C. H. Morton, Lumber Exch. Bldg. $150,000.

Calif., Long Beach—APARTMENT, etc. —T. J. Sten, having plans prepared by H. R. Davies, Farmers & Merchants Bldg., 4 story and basement, 52 x 200 ft. brick and steel, apartment, store and office building, West 14th St. $200,000.

Calif., Los Angeles—WAREHOUSE—C. E. Toberman, c/o Morgan, Walls & Clements, archts., Van Nuys Bldg., soon takes bids 13 story, 50 x 200 ft. rein.-con., Highland Ave.

Calif., Los Cerritos (mail Compton) — CLUB—California Golf Club, W. H. Taylor, pres., 232 Montgomery St., San Francisco, plans clubhouse, near here. $150,000.

Calif., Oakland—STORE and OFFICE—Metropolitan 5 & 10 Cent Stores, having plans prepared by Reed & Corlett, Bank of Savings Bldg., 3 story and basement, Class A, store and office building. $150,000.

Calif., Sacramento — HOSPITAL — San Francisco Drugless Hospital Assn., having plans prepared by Shea & Shea, 454 Montgomery St., San Francisco, for group rein.-con. and brick hospital buildings, 21st, 22nd, Q and R Sts. $500,000.

Calif., San Bernardino — COURTHOUSE San Bernardino Co. voted $450,000 bonds for courthouse. Noted Apr. 2.

Calif., San Francisco—HOTEL and STORE—H. C. Keenan, 110 Sutter St., having plans prepared by Baumann & Jose, 251 Kearny St., 10-story and basement, steel and concrete, Post St. $150,000.

Calif., San Pedro—BANK—Bank of San Pedro, having preliminary plans prepared by P. C. Pape, Central Bldg., Los Angeles, 100 x 125 ft., fireproof, Mesa St. $150,000 or more.

Calif., Wilmington — WAREHOUSE — Catalina Storage & Warehouse Co. plans 2 story (ultimately 4 story), 60 x 250 ft., rein.-con., B St.

BIDS DESIRED

Mass., Amherst—DORMITORY—Amherst College, D. G. Olds, pres., taking bids 4 story and basement, 45 x 140 ft., brick and granite dormitory, $200,000. McKim, Mead & White, 101 Park Ave., New York City, archts. Noted Apr. 30.

Mass., Arlington (br. of Boston) — THEATRE, STORE and OFFICE—J. E. Locatelli Co., 151 Highland Ave., Somerville, taking bids 1 and 2 story and basement, brick, Lake St. and Massachusetts Ave. $150,000. Private plans. Noted May 14.

Mass., Brockton—STORE and OFFICE—Majestic Realty Co., c/o C. T. Olson, archt., 101 Main St., taking bids 2-story and basement, 85 x 175 ft., brick and stone, Main St. $175,000. Noted May 28.

Mass., Cambridge (Boston P. O.)—THEATRE and STORE—College House Trust, c/o C. A. Newhall, 73 Tremont St., Boston, taking bids 1 story and basement, 90 x 125 ft., brick, stone and steel, Harvard Sq., Church and Palmer Sts. $150,000. R. D. Kimball Co., 6 Beacon St. Boston, engrs. Mowell & Rand, 21 School St., Boston, archts. Noted Feb. 5.

Mass., East Boston (Boston P. O.)—HOSPITAL — June 1 by Coolidge, Shepley, Bulfinch & Abbott, archts. Ames. Bldg., Boston, 2 story and basement, brick and limestone, plain foundation, incl. heating, plumbing and ventilating systems, Paris and Emmons Sts., here, for City of Boston, G. R. White Fund Trustees. *255,000.

Mass., Marlboro — BANK — First Natl. Bank of Marlboro, taking bids 1 story and basement, brick and stone, plain foundation, Main St. $150,000. Allen & Collins, 75, Newbury St., Boston, archts. Noted Mar. 19.

Mass., Medford (br. of Boston)—STORE —Shikes & Long, 18 Tremont St., Boston, taking bids 2 story and basement, 12,000 sq.ft. floor space, brick, plain foundation, Medford Sq., here. $200,000. S. S. Eisenberg, 46 Cornhill St., Boston, archt.

Mass., South Braintree—BANK—Braintree Savings Bank, L. B. Hollis, pres., taking bids 2 story and basement, rein.-con., brick, stone and steel bank building. $150,000. J. W. Beals Sons Co., 185 Devonshire St., Boston, archts. Noted Mar. 19.

Mass., Worcester—OFFICE and STORE —B. Press, Monadnock St., taking bids 5 story and basement, brick and steel, Front St. $175,000. E. T. Chapin, 340 Main St., archt. Noted Apr. 30.

Conn., Hartford—LODGE—Odd Fellows Hall Assn., 420 Main St., taking bids 4 story, 65 x 100 ft., brick, limestone and steel addition, Main St. $150,000. F. C. Walz, 407 Trumbull St., archt.

N. Y., Marcy—HOSPITAL—June 17, by State Hospital Comn., Albany, constructing employees home, at Utica State Hospital, Marcy Division, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. May 28.

N. J., Newark—BANK and OFFICE—June 1, by G. E. Jones, archt., 19 Clinton St., and Dennison & Hirons, archts., 288 Lexington Ave., New York City, 17 story, basement and sub-basement, 87 x 104 ft., brick and steel, 24-30 Commerce St., for Clinton Building Investment Co., Newark.

Pa., Erie—BANK and OFFICE—June 8, by Dennison & Hirons, archts., 288 Lexington Ave., New York City, 13 story, basement and mezzanine, 82 x 160 ft., brick and steel, plain foundation, State and 10th Sts., here, for Erie Trust Co.

Del., Dover—HOSPITAL—June 2, by F. R. Watson, archt., 1211 Walnut St., 3 story and basement, 40 x 135 ft., rein.-con. and brick hospital, plain foundation, for Kent General Hospital. $175,000.

D. C., Wash.—HOSPITAL—June 4, by Ballinger Co. & J. P. Richter, archts., 12th and Chestnut Sts., 4 story and basement, rein.-con. and brick, plain foundation, Pierce and North Capital Sts., for Sibley Memorial Hospital.

La., Shreveport—EXCHANGE—June 1, at office Mayre, Alger & Alger, archts., 801 Walton Bldg., Atlanta, Ga., 4 story and basement, 100 x 150 ft., rein.-con., McNeill and Crockett Sts., for Cumberland Telephone & Telegraph Co. F. Colvert, mgr. Noted May 21.

Va., Alexandria — HOTEL — G. Mason Hotel Corp., will build 5 story, basement and mezzanine, rein.-con. and brick, Prince St. $300,000. Work will be done by separate contracts. W. L. Stoddard, 50 East 41st St., New York City, archts. Day & Zimmerman, Inc., 1600 Walnut St., Phila., Pa., constr. mgrs.

O., Cleveland — STORE — J. Mcrory Stores, c/o S. R. Cunningham, 13 Central Sq., Youngstown, taking bids 4 story and basement, concrete, brick and steel, 430 Euclid Ave. $150,000. J. I. Kuhn, 13 Central Sq., Youngstown, archt. Noted Apr. 6.

Mich., Detroit—HOTEL—L. Chesnow, archt., 705 Lincoln Bldg., taking bids 9 story and basement, 75 x 126 ft., rein.-con., brick and steel, plain foundation, East Jefferson Ave., for L. Gorelick, 600 Woodland Ave.

Wis., Merrill—HOSPITAL—June 10, by C. W. Bruce, chn. Building Comr., 3 story and basement, 52 x 150 ft., brick and concrete, plain foundation, for Sisters of Holy Cross of Switzerland, c/o M. Prock, pastor. $150,000. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts. Noted May 21.

Okla., Newkirk—COURT HOUSE—June 16 (extended date), by B. Schoonover, clk. Kay Co., 3 story and basement, 75 x 120 ft., rein.-con. and brick court house. $200,000. C. H. Woodruff, 400 Reynolds Bldg., Ft. Worth, Tex., archt. Noted May 7.

Calif., Fruitvale—THEATRE and STORE —A. A. Cantin, archt., Flatiron Bldg., San Francisco, taking bids 1 story, 100 x 190 ft., Class A, theatre and store building. Owner's name withheld. Noted May 21.

Calif., Los Angeles—CLUB—Turn Verein Germania, c/o Krempel & Erkes, Bradbury Bldg., archt., taking bids 2 story and basement, 114 x 265 ft., brick and steel, Washington St. $200,000. Noted Jan. 29.

Calif., Los Angeles—HOTEL and STORE —Walker & Eisen, archts., Great Republic Bldg., taking bids 4 story and basement, 95 x 150 ft., brick and concrete, 6th St. and Normandie Ave., for K. Elliott, et al. $175,000. Noted Apr. 9.

Calif., Oakland — LABOR TEMPLE — Schirmer-Bugbee Co., archts., Thayer Bldg., taking bids 4 story and basement, 100 x 137½ ft. with 50 x 60 ft. wing, rein.-con. and brick, Franklin and 11th Sts., for Oakland Labor Temple Assn. Noted Mar. 20.

Calif., San Mateo—STORE and WAREHOUSE—Mitchell-Jackson Co., archts., 170 2nd St., taking bids 4 stroy, 50 x 165 ft. store, and 3 story, 50 x 80 ft. warehouse, both rein.-con., 3rd Ave. and Griffith St., for F. J. Smith Furniture Co., 3rd Ave. and B Sts. Noted Jan. 29.

Calif., San Pedro—CLUB—Jay, Rogers & Stevenson, archts., 919 California Bldg., Los Angeles, taking bids 5-story and basement, 145 x 185 ft., rein.-con., Beacon St., here, for Y. M. C. A. $500,000.

BIDS RECEIVED

N. J., Blackwood—HOSPITAL—Freeholders Burlington Co., Camden, May 11, from J. S. Roger & Co., Drexel Bldg., Phila., Pa., general contract alterations and additions to (1) almhouse (2) insane hospital, (1) $250,490 (2) $473,260, heating, from J. H. Hutchinson, 1020 Callowhill St., Phila., Pa., (1) $13,997 (2) $30,[illegible], plumbing, from N. Connolly, 1404 North 18th St., Phila., Pa., (1) $20,992, from W. Newell & Son, 1707 Sansom St., Phila., Pa., (2) $23,914.

N. J., Clinton—COTTAGES—Bd. Institutions & Agencies, Trenton, general contract 2 story maternity cottage, and 2 cottages for inmates at State Reformatory, here, from C. J. Smith Constr. Co., 204 Academy St., Trenton, $195,500. Noted May 7.

Fla., Tampa — AUDITORIUM — City Comn., auditorium, from McDevin-Fleming Co., Tampa, $244,299. Noted Apr. 30.

Minn., St. Paul — HOSPITAL — Ramsey Co. Bd. Control, Court House, May 14, general contract 4 story and basement, 150 x 160 ft., rein.-con., brick and stone addition, Jefferson and Colburn Sts., from Lauer Bros., 431 Gilfillan Blk., $304,150. Noted May 14.

CONTRACTS AWARDED

N. H., Keene—DORMITORY—State Bd. Educ., W. A. Stone, purch. agt., State House, Concord, 3 story and basement, 57 x 238 ft., concrete and brick dormitory, to H. P. Cummings Constr. Co., 14 Prospect St., Ware. Archts. est. $250,000. Noted May 14.

Mass., Boston — NURSES' HOME — Faulkner Hospital, C. J. Nichols, pres., 4 story and basement, 40 x 130 ft., brick and stone, plain foundation, to J. M. Hartwell, 46 Cornhill St. Archts. est. $160,000.

Mass., Roxbury (Boston P. O.)—STORE —Pitsorino Bros., 73 Montebello Rd., Jamaica Plain, 1 story and basement, 100 x 115 ft., rein.-con. and brick, Egleston Sq., here, to Gilman & Barru, 91 Everett Ave., Chelsea. Archts. est. $150,000.

Mass., Springfield—OFFICE, etc.—Massachusetts Mutual Life Insurance Co., 500 Main St., 4 story, 297 x 396 ft., brick, limestone and steel office building, 3 story storehouse and power house, to Turner Constr. Co., 178 Tremont St., Boston, $3,000,000 plus percentage basis.

Mass., Westfield — ATHENEUM — Westfield Atheneum Assn., 2 story and basement, 50 x 150 ft., brick, Court St., to Casper Ranger Constr. Co., 20 Bond St., Holyoke. Archts. est. $150,000. Noted Feb. 19.

N. Y., Buffalo — CLUBHOUSE — Elks Club, 211 Delaware Ave., 6 story and basement, rein.-con. and brick Delaware Ave., to C. H. Everitt, 295 Auburn Ave., to exceed $500,000. Noted Feb. 26.

N. Y., New York—WAREHOUSE—Hudson-Charlton Realty Co., c/o Lockwood-Greene & Co., engrs. and archts., 1 Pershing Sq., 10 story, 100 x 100 ft., rein.-con. and steel, plain foundation, Hudson and Charlton Sts., to Turner Constr. Co., 244 Madison Ave. Archts. est. $600,000.

Pa., Phila.—MASONIC—Masonic Realty Co., D. G. E. Deitrick, Coatesville, 2 story and basement, 54 x 108 ft., brick and steel, plain foundation, to W. H. Elliott, Coatesville. Archts. est. $150,000.

Pa., Phila.—POST OFFICE—F. P. Mellon Estate, 1712 Ludlow St., 2 story and basement, 40 x 188 ft., brick and steel, plain foundation, 18th and Ramstead Sts., to G. C. Dougherty, 1725 Ludlow St. Archts. est. $150,000.

Pa., Pittsburgh — APARTMENT — W. Meyer J. Simon, 527 5th Ave., 2 story and basement, 50 x 130 ft., brick and hollow tile, 5251-3 Forbes St., to Miller Constr. Co., Empire Bldg. Archts. est. $150,000. Noted Apr. 9.

Pa., Scranton—GARAGE—L. M. Davis, archt., 616 Spruce St., Phila., 4 story and basement, 120 x 160 ft., rein.-con., brick and steel, plain foundation, Lackawanna Ave., here, to White Constr. Co., Jefferson Bldg., for P. J. Casey, Hotel Casey. Approximately $350,000. Noted Apr. 23.

Del., Wilmington—CLUB HOUSE—Lodge 307, B. P. O. E., 3 story and basement, 75 x 90 ft., brick and steel, plain foundation, Market St. between 11th and 12th Sts., to Northeastern Constr. Co., Lexington Bldg., Baltimore, Md.

Fla., Miami—BANK and OFFICE—First Trust & Savings Bank, 15 story, brick, steel and stone, plain foundation, to George A. Fuller, 949 Bway., New York City.

Buildings—Commercial (Continued)

Fla., St. Petersburg—HOTEL—Soreno Hotel Corp., 80 room addition to Soreno Hotel, to G. A. Miller, 28 Petteway Bldg., Tampa, $200,000.

Mich., Detroit — HOSPITAL — Michigan Children's Hospital, St. Antoine St., 5 story and basement, rein.-con., brick and steel, plain foundation, St. Antoine and Farnsworth Sts., to Culbertson & Kelly, 872 West Milwaukee Ave. Archts. est. $309,000.

Mich., Detroit—LODGE and HOTEL—Wayne Lodge Pythian Castle Assn. c/o Weston & Ellington, archts., 1507 Stroh Bldg., 11 story and basement, 100 x 150 ft., rein.-con., brick and steel, plain foundation, Cass and Temple Aves., to O. Misch Co., 159 East Columbia St. Archts. est. $1,000,000.

Ill., Decatur — OFFICE and WAREHOUSE—Illinois Power & Light Co., c/o M. L. Harrying, mgr., 1 and 2 story, 120 x 310 ft., and 25 x 25 ft., brick and concrete office and warehouse, to G. Baker, Decatur.

Ill., Peoria—BANK and OFFICE—Commercial Natl. Bank, South Adams and Liberty Sts., 4 story, 72 x 171 ft., rein.-con., brick and steel addition, to V. Jobst & Sons, Lehman Bldg., $300,000.

Ia., Marshalltown — HOSPITAL — Deaconess Hospital Assn., 35th and Main Sts., C. Best, supt., general contract 3 story and basement, 45 x 180 ft., rein.-con., brick and stone addition, 3rd Ave. and Main St., to Public Constr. Co., 2822 Penn Ave. N., Minneapolis, Minn. Archts. total est. $175,000. Noted Apr. 9.

Neb., Omaha — COMMUNITY — L. A. Daly, archt., 622 Peters Trust Bldg., 6 story and basement, 140 x 152 ft., rein.-con., brick and steel, 20th and Dodge Sts., to A. Beck, 401 Keeline Bldg., for Knights of Columbus, $550,000. Noted Apr. 16.

Mo., Kansas City—APARTMENT—M. Spare, 4006 Paseo St., 5 story and basement, 76 x 126 ft., rein.-con., brick and stone, plain foundation, Mill Creek Parkway, to Lishear & Owen Constr. Co., Builders Exch., $170,000.

Mo., Kansas City — APARTMENTS — Kansas City Building Co., 319 Ridge Bldg., will build three 4 story and basements, 50 x 110 ft., rein.-con. apartments, plain foundation, one at 909 East 30th St., one at 913 East 30th St., and other at 30th and Campbell Sts., by day labor. $170,000 each. Noted Apr. 23.

Mo., St. Louis—OFFICE and THEATRE—Skouras Bros. Enterprises, c/o Grand Central Bldg., 22 story and basement, 127 x 165 ft., rein.-con., brick, steel, stone, terra cotta and marble, 7th and Locust Sts., to Boaz-Kiel Constr. Co., 4030 Chouteau Ave. Archts. est. $2,300,000. Noted Apr. 23.

Mo., St. Louis—STORE and OFFICE—Grand-Miami Corp., 1200 Pierce Bldg., will build 3 story and basement, 72 x 151 ft., rein.-con. and brick, plain foundation, Grand and Miami Sts., by day labor, under supervision of G. Sokol, archt., 7069 Pershing Ave. $375,000.

Tex., San Antonio—BANK—Commercial Natl. Bank & Commercial Loan & Trust Co., 4 story and part basement, rein.-con., marble, tile and Leuders limestone, St. Marys and Travis Sts., to J. DePuy, Builders Exch. Bldg., $160,000. Noted Mar. 26.

Tex., San Antonio—DORMITORY—Lady of the Lake College, College Lakeview, 5 story, 133 x 133 ft., concrete, brick, stone, to A. W. Fuessel, 700 Delmar St., approximately. $150,000.

Wash., Seattle—HOTEL—A. McQuaker, archt., Melhorn Bldg., 6 story and basement, brick, terra cotta and concrete, 7th and Union Sts., to A. F. Mowat, Arcade Bldg., for Caledonian Hotel Co., Melhorn Bldg. $160,000.

Calif., Los Angeles—APARTMENT—J. W. Kelly, c/o J. C. Austin, archt., Detwiler Bldg., 4 story and basement, 50 x 150 ft., brick, Main and 37th Sts., to Slater Co., 2314 Santa Fe Ave., Los Angeles, $150,000.

Calif., Los Angeles — OFFICE — A. Soiland, 1407 South Hope St., 9 story and basement, 49 x 154 ft., brick and terra cotta, 1405-07 South Hope St., to C. L. Peck, H. W. Hellman Bldg., $600,000. Noted Feb. 19.

Calif., Los Angeles—OFFICE—Los Angeles Gas & Electric Corp., 810 South Flower St., will build 3 story and basement, 65 x 230 ft., brick, 1324 Wall St., by day labor, under supervision of company engineers. $250,000.

Calif., Los Angeles—STORE and OFFICE—Hohm Building Co., c/o A. C. Martin, archt., Higgins Bldg., general contract 4 story and basement, brick and concrete, 6th and Western Ave., to Slater Co., 2314 Santa Fe Ave., Los Angeles $96,000. Noted Apr. 30.

Calif., Los Angeles—THEATRE and OFFICE—C. E. Toberman, c/o G. A. Lansburgh, archt., Hill-Street Bldg., 6-story, 125 x 180 ft., rein.-con. and steel, Hollywood Blvd., to McNeil Co., 5860 South Park Ave., approximately $450,000. Noted Mar. 19.

Buildings—Educational, Religious

PROPOSED WORK

Mass., Boston—SCHOOLS—School House Dept. plans brick school, Everett Dist., South End, $184,000 appropriated; brick and stone annex to Intermediate School, Lewis Dist., Roxbury, $292,000; brick high school, T. N. Hart Dist., South Boston, $292,000 appropriated. Engineer and architect not selected.

Mass., Charlestown (Boston P. O.) — SCHOOL—School House Dept., Boston, having plans prepared by J. Driscoll, 6 Beacon St., Boston, 2 story and basement, brick and stone, plain foundation, Warren-Bunker Hill Dist., here. $210,000. Noted Apr. 30.

Mass., Lawrence — SCHOOL — Sacred Heart Roman Catholic Church, A. Millet, pastor, having plans prepared by J. G. Morrissette, 575 Essex St., 3 story and basement, 65 x 75 ft., brick and steel, Hawley St. $150,000.

Mass., Quincy (Boston P. O.) — HIGH SCHOOL—C. A. Barbour, mayor and ch. com., having plans prepared by F. I. Cooper Corp., 172 Tremont St., Boston, archts., Junior High School, brick, East Squantum St. $400,000. Noted Feb. 5.

Mass., Weymouth (Ind. br. Boston) — SCHOOL — School Comn. having sketches made by J. W. Beals Sons Co., 185 Devonshire St., Boston, 2 story, brick, Bridge St. $150,000.

Conn., Bridgeport — SCHOOL — St. Stephens Roman Catholic Church Wordin Ave., having plans prepared by J. A. Jackson, 185 Church St., New Haven, 2 story and basement, 115 x 120 ft., brick and steel, Wordin and St. Stephens Aves. $150,000. Noted Jan. 31.

Conn., Danbury — HIGH SCHOOL — School Comn. having plans prepared by Sunderland & Watson, 248 Main St., new high school. $400,000. Noted Apr. 16.

Conn., Danbury — SCHOOL, CHAPEL, etc.—St. James Elscopal Church, A. C. Coburn, pastor, having preliminary plans prepared by Sunderland & Watson, 248 Main St., school and chapel with dormitory. $150,000.

Conn., Hartford—HIGH SCHOOL—City plans 2 story and basement, new high school. Zion St. $150,000. Engineer and architect not selected.

Conn., New Britain—CHURCH—Italian Community of New Britain, Franklin Sq., plans brick church, Franklin Sq. $150,000.

Conn., Stamford—SCHOOL—City School Comn. having plans prepared by Butler & Prevost, 292 Main St., 2 story and basement, brick and steel, Woodland Ave. $250,000.

Conn., Torrington — CHURCH — St. Mary's Roman Catholic Church, R. J. Kowalsky, pastor, had plans prepared 1 story and basement, 60 x 130 ft., stone church. $150,000. J. A. Jackson, 185 Church St., New Haven, archt.

N. J., Newark—CHURCH—St. Lucys Roman Catholic Church, Sheffield St., soon takes bids brick and stone, plain foundation, Sheffield St. $150,000. N. J. Convery, 964 Broad St., archt. and engr. Noted Apr. 2.

Pa., Homestead—CHURCH—St. Michaels Roman Catholic Congregation, having plans prepared by Comes, Perry & McMullen, Renshaw Bldg., Pittsburgh, 2 story and basement, 90 x 103 ft., limestone and brick, 9th and Liberty Sts. $150,000.

Pa., Pittsburgh—HIGH SCHOOL—Catholic Diocese of Pittsburgh, Craig St. and 5th Ave., having plans prepared by E. J. Weber, archt., K. of C. Bldg., and A. F. Link, associated archt., 407 North Craig St., 3 and 4 story and basement, 63 x 216 ft., stone, 5th Ave. and Boundary St.

N. C., Durham—COLLEGE—Duke University (formerly Trinity College), having sketches made by H. Trumbauer, Land Title Bldg., Phila., Pa., group of new buildings. Noted Jan. 8.

La., Baton Rouge—HIGH SCHOOL—Bd. Educ., Baton Rouge Parish, having plans prepared by W. T. Nolan, Canal-Commercial Bldg., New Orleans, 3 story, rein.-con., brick, steel and stone. $450,000.

Fla., Miami — CHURCH — First Baptist Church, c/o J. L. White, pastor, Garden of Eden, had plans prepared by R. H. Hunt, Nashville, Tenn., 12 story church, north east 1st and 5th Sts. $1,000,000.

Tenn., Knoxville—SCHOOLS—Voted $2,500,000 bonds for new schools. Noted Apr. 30.

O., Canton—SCHOOL and HALL—St John's Roman Catholic Church, 627 McKinley Ave., had plans prepared by W. Koehl, 1720 Euclid Ave., Cleveland, 2 story and basement, brick, steel and concrete school and hall. $150,000.

O., Cleveland — SCHOOLS — Bd. Educ., F. G. Hogen, dir., having plans prepared by W. R. McCornack, East 6th St. and Rockwell Ave., Alexander Hamilton Junior High School, 3 story and basement, $1,200,000; Junior High School, 3 story and basement, Oakland Dist., $1,015,056; 1 and 2 story, 14 room addition to Nathaniel Howard School, $450,000; 18 room additions to Willson School, $450,000, and Harvard School, $700,000; and Louise M. Alcott School, 4 room, $150,000, all brick, steel and concrete.

Mich., Detroit — MEDICAL COLLEGE—Bd. Educ., 1354 Bway. Ave., having plans prepared by Donaldson & Meyer, 1314 Penobscot Bldg., 3 story and basement, rein.-con., brick and steel, plain foundation, St. Antoine St. $560,000.

Mich., Detroit — SCHOOLS — Bd. Educ. 1354 Bway. Ave., having plans prepared by McGrath & Van Tyle, 2231 Park Ave., 2 story and basement, rein.-con.; brick and steel, plain foundation, Clippert and Clayton Aves., $440,000; by Smith, Hinchman & Grylls, 800 Marquette Bldg., 3 story and basement, rein.-con., brick and steel addition to Northern High School, plain foundation, Owen Ave., $228,000; by Malcomson & Higginbotham, 1217 Griswold St., 3 story and basement, rein.-con., brick and steel, plain foundation, Martin and McGraw Aves., $800,000.

Ill., Hinsdale—SEMINARY—Order of St. Francis, St. Louis, Mo., having plans prepared by O'Meara & Hills, 1611 Pioneer Bldg., St. Paul, Minn., 3 story and basement, 279 x 357 ft., concrete, brick and stone, here. $900,000.

Neb., Gothenburg—HIGH SCHOOL—Bd. Educ., c/o H. A. Burke secy., had plans prepared by Davis & Wilson, 525 South 13th St., Lincoln, and soon takes bids 2 story and basement, 130 x 144 ft., brick and concrete school. $175,000. Noted May 21.

S. D., Sioux Falls—COLLEGE—Columbus College, P. T. Monoghan, pres., plans 3 story and basement, rein.-con., brick and stone college. $150,000. Perkins & McWayne, 322 Paulton Blk., archts.

Mo., Columbia — SCHOOLS — Bd. Educ. having preliminary plans prepared by W. B. Ittner, 911 Locust St., St. Louis, 2 story, Benton Grade School, and 3 story manual training department for Fred Douglass High School, both rein.-con., brick and stone.

Mo., St. Louis—SCHOOL—Church of Immaculate Conception, c/o pastor, Park and Compton Aves., having preliminary plans prepared 3 story and basement, rein.-con., brick and stone school, incl. swimming pool, gymnasium, auditorium, etc., 29th and Lafayette Sts. $150,000.

Tex., Dallas—SCHOOLS—Bd. Educ., c/o C. M. Moore, secy., and W. C. Lemmon, pres., having plans prepared by H. M. Greene Co., 805 Santa Fe Bldg., addition to Colonial School, Wendelkin and Pennsylvania Sts., also addition to Lipscomb School, Ridgway and Worth Sts., both brick and stone, plain foundation. $150,000.

Okla., Tulsa—SCHOOL—Catholic Preparatory School having preliminary plans prepared 3 buildings, 4 story and basement, 260 x 400 ft., brick school. $1,500,000. Engineer and architect not selected.

Calif., Covina — SCHOOL — California Preparatory School for Boys, c/o R. Meier, Title Insurance Bldg., Los Angeles, having preliminary plans prepared group of 1 and 2 story rein.-con., hollow tile and brick buildings, here. To exceed $150,000.

Calif., Los Angeles — KINDERGARTEN SCHOOL—City had plans prepared by F. J. Soper, 1113 Central Bldg., 2 story and part basement, 75 x 195 ft., brick and rein.-con. kindergarten school, North Ave.

Calif., Los Angeles—SCHOOL—City having plans prepared by Architectural Dept. of Bd. Educ., 2 story, 65 x 189 ft., rein.-con. and hollow tile, Naomi Ave. $165,000.

Calif., Oakland — HIGH SCHOOL — City having preliminary plans prepared by Construction Dept. Bd. of Educ., City Hall, fireproof high school, Park Blvd. and Hopkins St. $850,000 or more.

Buildings—Educational, Religious (Cont.)

BIDS DESIRED

Me., Portland — SCHOOL — City, E. G. Robinson, chn. com. taking bids 2 story and basement, brick and steel school. $150,000. Miller & Mayo, 465 Congress St., archts.

Vt., Burlington — HIGH SCHOOL — City, W. Fenton, chn. School Building Com., taking bids on revised plans, Junior High School, 3 story and basement, 60 x 120 ft., and 90 x 120 ft., brick and stone, plain foundation. $350,000. A. Kellogg, 89 Franklin St., Boston, engr. F. L. Austin, 240 College St., archt. Noted Aug. 28.

Mass., Weston—CHAPEL—Scholasticate Society of Jesus, P. J. O'Gorman, pres., taking bids 1 and 2 story, brick and stone chapel and rotunda, Concord Rd. $1,000,000. Maginnis & Walsh, 100 Boylston St., Boston, archts.

Mass., Worcester—CHURCH—June 7th, by Wesley Methodist Church, W. S. Mitchell, pastor, 3 story, 165 x 170 ft., brick and granite, Main and Church Sts. $500,000. Coolidge & Carlson, 89 State St., Boston, archts. Noted May 21.

R. I., Westerly—SCHOOL—Immaculate Conception Parish, F. Vincent, pastor, taking bids 2 story and basement, 100 x 105 ft., brick and stone, plain foundation, Dixon St. $175,000. O'Malley & Fitzsimmons, Fanning Bldg., Providence, archts.

Conn., Waterbury — HIGH SCHOOL — Notre Dame Academy, Sister Faustina, head, South Elm St., taking bids 3 story and basement, brick and stone, plain foundation. $300,000. J. Jackson, 185 Church St., New Haven, archt. Noted Feb. 19.

N. Y., Jamaica—SCHOOL—June 4, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, constructing P. S. 131, 172nd St., here, for Bd. Educ., 500 Park Ave., New York City.

Md., Baltimore—SCHOOLS—June 3 by Bd. Awards, City Hall, 3 story and basement, 62 x 111 x 205 ft., Glenmore, Christopher and Sylvan Aves., $270,000; 3 story and basement, 62 x 146 x 205 ft., brick and steel, plain foundation, Alto Ave. near Lyndhurst Ave., $270,000; 3 story and basement, 62 x 111 x 205 ft., brick and steel, plain foundation, Rogers Ave. near Denmore Ave., $270,000. C. N. and N. Friz, Lexington Bldg., archts. H. F. Doeleman, 507 North Charles St., engr.

Mich., Springwells—SCHOOL—June 3, by F. E. Yinger, secy. Bd. Educ., 2 story and basement, 20 room, rein.-con., brick and steel, plain foundation, Lois Ave. $250,000. H. J. Keough, 2440 Cass Ave., Detroit, engr. and archt.

Ill., Waukegan—HIGH SCHOOL—June 2, by Bd. Educ., 2 story and basement, rein.-con., brick and stone high school. $200,000. Shattuck & Layer, 19 South La Salle St., Chicago, archts. Noted Apr. 16.

Calif., San Francisco—HIGH SCHOOL—July 1, by Bd. Pub. Wks. general contract for fireproof high school, Dolores and 18th Sts., $1,101,000; also for plumbing, gas fittings, and sprinkler system, for same, $83,000, for City and San Francisco Co. Total $2,500,000. Bids on balance of work to be asked at later date. J. Reid, Jr., City Hall, city archt.

BIDS RECEIVED

Ind., Wabash—HIGH SCHOOL—School Bd., 2 story and basement, 180 x 200 ft. school, incl. swimming pool and gymnasium, etc. from E. A. Carson, Logansport, Ind., $257,000. Noted Apr. 3.

CONTRACTS AWARDED

Me., Camden—SCHOOL—Town, R. H. Hayden, chn. School Bd., 2 story and basement, 95 x 165 ft., brick and stone school, to J. Partridge, Augusta. Archts. est. $150,000. Noted May 14.

Me., Fairfield—HIGH SCHOOL—Town, R. A. Jewell, chn. Building Comn., 2 story and basement, brick and stone school, to F. W. Cunningham & Sons, 181 State St., Portland. Archts. est. $150,000. Noted Apr. 30.

Me., Orono—ARMORY and GYMNASIUM—University of Maine, 2 and 3 story and basement, 118 x 318 ft. brick, stone and steel, plain foundation, to O. Nelson Co., 194 Exchange St., Bangor. Archts. est. about $250,000. Noted Jan. 22.

Mass., Clinton — SCHOOL — St. Mary's Polish Church, A. Borrisky, pastor, 127 Franklin St., 2 story and basement, 65 x 100 ft., brick and stone, to M. J. Walsh & Son, 1412 Dwight St., Holyoke. Archts. est. $150,000. Noted Apr. 16.

Mass., Grafton—SCHOOL—School Comn., Norcross School, 2 story and basement, brick and stone, to J. E. Wilcox, Grafton. Archts. est. $150,000. Noted Apr. 9.

Mass., Leominster—SCHOOL—St. Lee's Church, E. Toher, pastor, 2 story and basement, 65 x 100 ft., brick and stone parochial school, Main St., to M. J. Walsh & Sons, 1412 Dwight St., Holyoke. Archts. est. $150,000.

Mass., Watertown (Boston P. O.) — SCHOOL—City, C. M. Abbott, chn. com., 2 story and basement, brick and stone addition to Coolidge School, plain foundation, Arlington and Mt. Auburn Sts., to Fuller Constr. Co., 31 Milk St., Boston. Archts. est. $200,000. Noted Apr. 23.

R. I., Cranston—SCHOOL—City, A. M. Colvin, city property comn., 2 story and basement, brick, Mersick St. and Pontiac Ave., Eden Park Sect., to P. J. Flynn, 11 Pembroke Ave., Providence. Archts. est. $150,000. Noted Apr. 23.

R. I., Woonsocket — HIGH SCHOOL — School Building Com., 2 story and basement, brick and steel addition, to I. F. Fleurant & Sons, Rathburn St., $108,771. Noted May 14.

Conn., East Hartford (br. of Hartford)—SCHOOL—City, 2 story and basement, 60 x 150 ft., brick and steel, Darling St., to Lawrence & Coe Constr. Co., 372 Trumbull St., Hartford, $121,100.

N. Y., Buffalo—SCHOOL—Bd. Educ., P. S. 76, Elmwood Ave., to Shane Constr. Co., Herald Bldg., Syracuse, $389,800. Noted Apr. 16.

N. J., Camden—SCHOOL—Bd. Educ., H. A. Davis School, 3 story and basement, 93 x 159 ft., brick and steel, plain foundation, 36th and Cramer Sts., to G. Bachmann, 19 North 30th St. $189,575. Noted May 14.

Pa., Harrisburg—HIGH SCHOOL—Harrisburg School Bd., Chestnut St., general contract John Harris High School, 1 story, 312 x 322 ft., brick and cast stone, 25th and Market Sts., to C. W. Strayer, 13th and Thompson Sts., $757,000; plumbing, to Herr Bros., 7th and Emerald Sts., $40,050. Noted Mar. 26.

Pa., Lancaster—CHURCH—U. B. Church of Christ, Queen and Clay Sts., 1½ story and basement, 57 x 69 ft., granite, plain foundation, to D. S. Warfield, Lancaster. Archts. est. $200,000.

Pa., Overbrook — SUNDAY SCHOOL — Davis, Dunlop & Barney archts., 1805 Walnut St., Phila., 2 story and basement, 108 x 149 ft., brick, plain foundation, city line and Lancaster Ave., to H. E. Baton, 1713 Sansom St., Phila. for Overbrook Presbyterian Church. Archts. est. $225,000. Noted May 7.

Pa., Phila.—SCHOOL—Bd. Educ., 19th and Chestnut Sts., 3 story and basement, 95 x 211 ft., Chew and Upsal Sts., to M. Melody & Son, 1322 Race St., $398,900; heating system, to D. J. Keating, 2042 Rittenhouse Sq., $46,000. Noted May 14.

Pa., Swarthmore — CHURCH and SUNDAY SCHOOL — Swarthmore Methodist Episcopal Church, 1 story and basement, 70 x 123 ft., granite, plain foundation, to Stofflet & Tillotson, Wesley Bldg., Phila. Archts. est. $150,000.

Pa., West Chester — AUDITORIUM — West Chester Normal School, general contract, Phillips Memorial Auditorium, 1 and 2 story and basement, 64 x 162 ft., on campus, to V. Gondos, Reading, $265,000; heating and ventilating, to Borden & Co., 637 North 19th St., Phila., $28,060. Noted May 14.

W. Va., Lewisburg — BARRACKS and ADMINISTRATION—Greenbriar Military School, general contract 3 story and basement barracks and administration building, to J. P. Pettyjohn & Co., Lynchburg, Va. Archts. est. $250,000.

La., Baton Rouge—CHURCH, etc.—First Presbyterian Congregation, B. B. Taylor, chn., 1 story, basement and balcony, 65 x 114 x 163 ft., brick, stone, terra cotta and concrete church, and 2 story Sunday school, to S. M. Leard, Meridian, Miss. Archts. est. $175,000. Noted Apr. 30.

O., Lorain — CHURCH and SUNDAY SCHOOL—First Congregational Church, L. C. Grant, pastor, 433 Washington St., 1 and 2 story, 80 x 125 ft., brick, steel and stone, to P. J. Hume, Lorain. Archts. est. $150,000. Noted Apr. 30.

O., Toledo—SCHOOLS—Bd. Educ., 3 centralized schools, each 2 story and basement, 100 x 120 ft., rein.-con. and brick, to Orr & Miller, 510 Savings Bldg., Lima. Archts. est. $100,000 each.

Mich., Flint—SCHOOL—St. Mary's Parish, 2 story and basement, 80 x 100 ft., rein.-con., brick and steel, plain foundation, to A. E. Rose & Co., Flint. Archts. est. $150,000.

Mich., Redford—SCHOOL—Bd. Educ., Dist. 7, 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation, to G. Anderson, 6118 Lawton Ave., Detroit, about $150,000.

Wis., Madison—CHURCH—Grace Episcopal Church, 116 West Washington Ave., 2 story, 60 x 210 ft., rein.-con. and brick, plain foundation, Carroll St., to J. H. Kelley, 24 East Mifflin St. Archts. est. $150,000. Noted May 7.

Kan., St. Marys—COLLEGE—St. Marys College, 3 story and basement, 70 x 200 ft., rein.-con. and stone, plain foundation, to G. P. Reintjes, 314 Interstate Bldg., Kansas City. Archts. est. $175,000.

Mo., Columbia—CHURCH and SUNDAY SCHOOL—F. E. Stephens, 203 Tholly Ave., ground floor and foundation for 136 x 192 ft., rein.-con., brick and stone church and Sunday school, 70 ft. high, to Phillips Constr. Co., Columbia, for Methodist Foundation, 9th and Locust Sts., $72,297.

Mo., Kansas City—HIGH SCHOOL—Bd. Educ., Public Library Bldg., general contract 4 story, brick, rein.-con. and limestone, plain foundation, 20th and Van Brunt Sts., to Collins Bros., 1600 Grand St., $291,475.

Tex., Houston—CHURCH—First Baptist Church, c/o J. B. Leavel, pastor, 2602 Blodgett St., 4 story, 103 x 107 ft., concrete, steel, brick and stone, Main St. and Lamar Ave., to Tellepsen Constr. Co., 4100 Clay St., approximately $185,000.

Tex., Temple — SCHOOLS — Bd. Educ., high and grammar school building, also negro school, rein.-con., brick and stone, plain foundation, to San Antonio Constr. Co., San Antonio, $151,106.

Calif., Los Angeles—SCHOOL—City, general contract rein.-con. and brick, 3 story school building, 3 story gymnasium and 1 story shop, to Salih Bros., D twiler Bldg., $171,535.

Federal Government Work

PROPOSED WORK

N. Y., Plattsburg—Platform, etc.—U. S. Engineer Office, Room 710 Army Bldg., 39 Whitehall St., New York City, rejected bids Apr. 27, stone platforms, steps, etc. in MacDonough Memorial, here. Noted Apr. 16.

D. C., Wash.—Water System—Spec. 5104—Bureau Yards & Docks, Navy Dept., plans addition to water system at Naval Observatory, here.

BIDS DESIRED

Conn., New London—Post Office—June 25, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and extending Post Office, here; adv., E. N.-R. May 28.

N. Y., Rosebank — Pier — June 18, by Treas. Dept. at office Supervising Archt., Wash., D. C., removing old pier and constructing new one, dredging boat basin, etc., here; adv. E. N.-R. May 28.

N. J., Paterson—Post Office—June 24, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging post office, here; adv. E. N.-R. May 28.

Md., Baltimore—Sewers—June 23, by Treas. Dept. at office Supervising Archt., Wash., D. C., new sewerage and drainage at U. S. Marine Hospital, here.

D. C., Wash.—Steel, etc.—June 2, at office General Purch. Officer, Panama Canal, Wash., D. C., structural steel, steel railroad coach wheels, iron or steel ridge roll, etc.

Fla., St. Petersburg—Post Office—June 25, by Treas. Dept. at office Supervising Archt., Wash., D. C., extension to post office, here.

Ala., Florence—Bridges—July 7, by U. S. Engineer Office, erecting one Strauss trunnion bascule bridge and one bascule bridge across navigation lock of Wilson Dam; adv. E. N.-R. May 28.

Miss., Holly Springs—June 22, by Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here.

La., New Orleans—Hospital and Quarters—June 17, by Treas. Dept. at office Supervising Archt., Wash., D. C., isolation hospital and attendants' quarters, at Marine Hospital, here; adv. E. N.-R. May 28.

Tenn., Memphis—Quarters—June 23, by U. S. Veterans Bureau, Wash., D. C., quarters for medical officers, at U. S. Hospital 88, here.

Minn., Minneapolis — Alterations, etc. — June 9, by U. S. Veterans Bureau, Wash., D. C., alterations and restoration of 6th floor of Regional Office and Dispensary, Keith Plaza Bldg., here.

Wyo., Powell—Structures—June 16, at office Bureau Reclamation, Powell, constructing structures on Willwood Canal below Deer Creek, near here. E. Mead, comr.

Montana—Road—June 15, by C. H. Prucell, dist. engr. Bureau Pub. Rds., Post Office Bldg., Portland, Ore., constructing 12.4 mi. Transmountain Highway, Glacier Nat'l. Park, here.

Mont., Missoula—Post Office—June 22, by Treas. Dept. at office Supervising Archt.,

Federal Government Work (Continued)

Wash., D. C., remodeling and enlarging post office, here.

Calif., Mare Island—Paving—Spec. 5092—June 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C., asphalt paving, here. Noted May 14.

Calif., Point St. George — Road — Spec. 5037—June 10, at Pub. Wks. Office, Navy Yard, Mare Island, constructing road at Naval Radio Compass Station, here.

Calif., San Francisco—Stone—June 13, by U. S. Engineer Office, Custom House, 200,000 tons more or less stone for jetty construccion at entrance Humbolt Bay.

BIDS RECEIVED

R. I., Melville—Chimney—Spec. 5101—Bureau Yards & Docks, Navy Dept., Wash., D. C., radial brick chimney, here, from Rust Eng. Co., 311 Ross St., Pittsburgh, Pa., $3,700. Noted May 14.

N. Y., Brooklyn—Water Tank—Spec. 5090—Bureau Yards & Docks, Navy Dept., Wash., D. C., elevated steel water tank and sprinkler system, here, from Austin Eng. Co., 121 West 42nd St., New York City, (1) $20,772 (2) $9,643 (3) $9,619. Noted May 14.

N. Y., Brooklyn—Wharf Repairs—Spec. 5080—Bureau Yards & Docks, Navy Dept., Wash., D. C., wharf repairs, here, from General Contg. & Eng. Co., 40 Rector St., New York City, (1) $11,011 (2) $150 (3a) $40 (3b) $37.50 (4) $0.60 (5) $25. Noted May 14.

D. C., Wash.—Power Plant—D. Lynn, Capital Bldg., archt., power plant improvements, from W. G. Cornell Co., 17 Patterson St. N. E., (a) $155,136 (b) $153,750 (c) $156,668 (d) $159,992 (e) $155,441 (f) $156,742 (g) $157,047.

Mo., Fayette—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office building, here, from C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $43,400. Noted Apr. 23.

Calif., San Luis Obispo—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office, here, from R. E. Campbell, Long Beach, $48,842. Noted May 14.

CONTRACTS AWARDED

Mass., Boston—Repairing Crane—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing crane, here, to McMyler Interstate Co., Bedford, O., $19,000. Noted May 21.

Conn., Mystic—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here, to W. MacDonald Constr. Co., Syndicate Bldg., St. Louis, Mo., $43,736. Noted May 21.

N. Y., Brooklyn—Chimney—Spec. 5077—Bureau Yards & Docks, Navy Dept., Wash., D. C., radial brick chimney, here, to M. W. Kellogg Co., 90 West St., New York City, $14,556. Noted May 14.

S. C., Charleston—Dredging—U. S. Engineer Office, War Dept., Wash., D. C., dredging in Charleston Harbor, here, to P. Sanford, Ross, Inc., Jersey City, N. J., $6,750. Noted Apr. 30.

Ind., Newburg—Dam—U. S. Engineer Office, P. O. Box 72, Louisville, Ky., constructing Dam 47, Ohio River, here, to U. G. I. Constr. Co., 1401 Arch St., Phila., Pa., $2,359,218. Noted May 14.

Mich., Detroit—Dredging—U. S. Engineer Office, dredging 2 mi. ship canal, to Dunbar & Sullivan, 2211 Dime Bank Bldg., $125,000; hire of plant for dredging west side of channel, south end of Lake Huron, to Duluth Superior Dredging Co., 1715 Ford Bldg., $27,000. Noted Apr. 9.

Mich., Detroit—Garage—U. S. Engineer Office, constructing 140 x 24 ft. rein.-con., brick and steel postal station garage, at Roosevelt Park Post Office, to Everett Winters Co., 1024 Book Bldg., $200,000.

Wis., Milwaukee—Steel Barges—U. S. Engineer Office, 3 steel barges, to Menasha Boiler Wks., Water St., Menasha, $35,000. Noted May 14.

Minn., Duluth—Breakwater—U. S. Engineer Office, repairing breakwater at Agate Bay, to Barnett & Record Co., Minneapolis, Minn. $55,545. Noted Apr. 9.

H. T., Pearl Harbor—Elevator—Bureau Yards & Docks, Navy Dept., Wash., D. C., elevator, here, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $4,595 (180 days).

Unclassified

PROPOSED WORK

Playground — Cambridge, Mass. — City Council plans to purchase land and construct public playground in Ward 10. $25,000 or more. Engineer not selected.

Playground, East Boston (Boston P. O.) **Mass.**—City of Boston, plans playground on land bounded by Geneva, Porter, Wellington and Grove Sts. $25,000. J. F. Sullivan, secy. Street Layingout Dept.

Terminal, East Cambridge (Boston P. O.) **Mass.**—Boston Elevated Ry. Co., Park Sq. Bldg., Boston, plans terminal, Main St. and Kendall Sq., here. To exceed $125,000. A. J. Blackburn, Park Sq. Bldg., engr.

Swimming Pool — Detroit, Mich. — See "Buildings—Commercial."

Transmission Line—Illinois—Central Illinois Light Co., 316 South Jefferson St., Peoria, purchased site and made plans transmission line from Peoria to Bartonville, and 13,000 volt sub-station at Bartonville. $500,000. Work will probably be done by day labor. Private plans.

Swimming Pool — St. Louis, Mo. — See "Buildings—Educational, Religious."

Street Lighting System — Bakersfield, Calif.—Plans electrolier system in business and residential districts. $50,000-$60,000. W. D. Clarke, city engr.

Parks and Playgrounds—Berkeley, Calif.—Defeated $900,000 bonds to purchase land and improve same for parks and playgrounds. Noted Oct. 2.

Ice Skating Pavilion—Los Angeles, Calif.—Winter Palace Amusement Corp., c/o W. H. Dillehunt, 709 Commercial Exch. Bldg., having plans prepared by C. R. Skelkirk, 800 Amer. Bank Bldg., 1 story, 140 x 310 ft. ice skating arena, pressed brick and plaster, Vermont Ave. $250,000. Noted May 14.

Lighthouse—Leamington, Ont.—Dept. Marine, Ottawa, soon takes bids 2 story lighthouse, 70x70 ft., rein.-con. cribwork pier on pile foundation, etc., here. $100,000. L. E. Cote, c/o owner, engr.

BIDS DESIRED

Underground Cable—Brooklyn, N. Y.—June 4, by R. E. Enright, police comr., Bookkeeper's Office, 240 Centre St., New York City, installing underground cable, here.

Cable—New York, N. Y.—June 4, by W. W. Mills, comr. Plants & Structures, Municipal Bldg., lead covered cable along Varick St., 7th and 1st Aves.

Pier—Brooklyn, N. Y.—June 4, by M. Cosgrove, comr. Dept. Docks. Pier A, Battery Pl., New York City, constructing Canarsie Pier, Jamaica Bay, Contr. 1858, incl. concrete pile platform, for pier and bulkhead, etc.

Special Work—New York, N. Y.—June 5, by Bd. Transportation, 49 Lafayette St., special work (Order 27) for Westchester Ave. yard.

Station Finish—New York, N. Y.—June 10, by Bd. Transportation, 49 Lafayette St., station finish for Main St. station, Route 52, Sect. 3 (Flushing Sect.).

Core Borings—New Jersey—June 8, by State Hy. Dept., Trenton, 2,250 lin.ft. casings to be sunk to rock through water, 250 lin.ft. diamond drill core borings in rock under water, 5,850 ft. casings sunk on land, etc., on Route 1 between Hudson Blvd., Jersey City, and Doremus Ave., Newark, Essex and Hudson Counties; adv. E. N.-R. May 28.

Underpass—Ocala, Fla.—June 9, at office State Rd. Dept., Tallahassee, underpass under the Seaboard Air Line R.R., on Project 553, Rd. 2, Marion Co., south of here. J. L. Cresap, highway engr.

Dock and Approaches—Baton Rouge, La.—June 11, by Comn. Council constructing dock and approaches, 350 tons steel, 280 cu.yd. concrete, 66,000 lin.ft. piling, etc. J. W. Billingsley, Interstate Bank Bldg., New Orleans, La., consult. engr.

Generator — Murray, Ky. — City, C. B. Crawford, supt., in market for 200 hp. Diesel oil engine generator unit with accessories.

Grandstand—West Allis, Wis.—June 9, by J. D. Jones, comr. Agriculture, Madison, rein.-con. addition to grandstand at State Fair Park. $150,000. A. Peabody, Madison, engr. Noted Feb. 19.

Transmission Line and Distribution System—Oklahoma—June 5, by G. C. Mitchell, city clk. of Carter, electric distribution system in Carter and 18 mi. 13,200 volt transmission line from Carter to Elk City. $25,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted May 14.

Wharf Repairs—Baie St. Paul, Que.—June 9, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., wharf repairs, here. $25,000.

Pier Repairs—Kincardine, Ont.—June 9, by S. E. O'Brien, secy. Dept. Pub. Wks., Parliament Bldg., Ottawa, repairs to pier, here. $30,000.

BIDS RECEIVED

Borings—New York—Bd. Transportation, 49 Lafayette St., May 22, borings along Cranberry and Clinton Sts., etc., in Brooklyn Boro, and along Van Alst, Nott and Jackson Aves., in Queens Boro. Agreement "DU," from Osborne Drilling Co., 120 Liberty St., New York City, $30,058. Noted May 14.

Subway—New York, N. Y.—Bd. Transportation, 49 Lafayette St., May 22, tracks, etc., for portion of 148th St. and Lenox Ave. Yard, from McElroy & Kerwin, 316 Flatbush Ave., Brooklyn, $73,915. Noted May 14.

Heating and Ventilating—Harrisburg, Pa. — Harrisburg School Bd., Chestnut St., heating and ventilating system in John Harris School, 25th and Market Sts., from R. T. Withers, New Castle, $140,000-$149,000. Noted Mar. 26 under "Buildings—Educational Religious."

Swimming Pool, etc. — Wabash, Ind. — See "Buildings—Educational, Religious."

Stadium—Des Moines, Ia.—Drake University, 25th and University Sts., general contract 2 story and basement, 150 x 212 ft., rein.-con. stadium, from C. Weitz Sons Co., 715 Mulberry St., $203,387.

CONTRACTS AWARDED

Cement—Boston, Mass.—Supply Dept., J. P. Rock, Supt., 200 tons asphaltic cement, to Standard Oil Co. of New York, Park Sq. Bldg., Boston, $25.20 per ton.

Underpass, Middletown, Conn. — New York, New Haven & Hartford R.R. Co., New Haven, underpass under bridge St., here, to Lathrop & Shea Co., Montowese, New Haven. Engrs. est. $225,000.

Steam Heating System—New York, N. Y.—E. J. O'Malley, comr. Pub. Markets, Municipal Bldg., steam heating system in wholesale market, storage building and power house for Bronx Municipal Terminal Market, Exterior and East 151st Sts., to Austin Eng. Co., 121 West 42nd St., $43,672. Noted May 21.

Conduit — Baltimore, Md. — Bd. Awards, 100,000 more or less single vitr. clay conduit, to Western Electric Co., South St., $0.1075. Noted May 21.

Grandstand—Akron, O.—Firestone Tire & Rubber Co., South Main St., rein.-con., grandstand, 15,000 seating capacity, to V. W. Surber, 109 North Union St. Engrs. est. $100,000. Noted May 21.

Transmission Line—Wisconsin—Wisconsin Gas & Electric Co., Pub. Serv. Bldg., Milwaukee, 106 mi. electrical transmission line between Appleton and Plymouth, to Hoosier Eng. Co., 41 North Capitol Ave., Indianapolis, Ind.

Park Improvements—Minneapolis, Minn.—Bd. Park Comrs., City Hall, to Simonson & Emstad, Plymouth Bldg., improving Chicago Ave. Field $6,290, Nicollet Field and Powderhorn Lake Park $14,505, sidewalks and steps $16,080; to Andrews Paving Co., 3343 Colfax Ave., North Minneapolis, improving Sibley Field $9,308 and curbing $14,200. Grand total $60,383. Noted Apr. 16.

Grain Elevator—St. Joseph, Mo.—Chicago, Burlington & Quincy R.R., 547 West Jackson St., Chicago, Ill., grain elevator, rein.-con., here, to Bernell Eng. & Constr. Co., 513 West Jackson St., Chicago, Ill. Engrs. est. $200,000.

Fire Boat — Houston, Tex. — Turning Basin Dist. and Navigation Dist. c/o H. L. Washburn, aud. Harris Co., Court House, steel fireboat, 125 ft. long, 277 ft. beam, 35,000 g.p.m. capacity at 150 lb. pressure, to Bethlehem Shipbuilding Corp., Harlan Plant West, Wilmington, Del., $272,000. Noted Apr. 16.

Materials

BIDS DESIRED

Iron Pipe—Steelton, Pa.—June 3, at office H. R. Rupp, boro secy., cast iron pipe and fittings; adv. E. N.-R. May 28.

Gravel—Bastrop, La.—June 2, by Police Jury Morehouse Parish, 7,800 cu.yd. gravel for Road Projects 9 and 10.

Road Oil—Madison, Wis.—E. Bunn, city aud., taking bids 60,000 gal. asphaltic road oil for use on city streets. E. E. Parker, City Hall, engr.

Sand, etc.—Minneapolis, Minn.—June 2, by F. S. Gram, city purch. agt., 32,000 cu. yd. sand and 25,000 cu.yd. crushed stone or gravel, for Paving Dept. N. W. Elsberg, city engr.

CONTRACTS AWARDED

Structural Steel—Minneapolis Minn.—F. S. Gram, city purch. agt., 420 tons structural steel for new filtration plant, (now under construction), to Crown Iron Wks. Co., 1229 Tyler St., at $104 per ton. Noted May 7.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: June 17.

Construction, Heating, Sanitary and Electric Work

UTICA STATE HOSPITAL

Marcy, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work, Single Employee's Home, Utica State Hospital, Marcy Division, Marcy, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2 o'clock p.m. (Eastern Standard Time), Wednesday, June 17, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addrssed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to 5% of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specifications No. 4508, 4509, 4510 and 4511. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Utica State Hospital, Marcy Division, Marcy, N. Y., at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway & 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained by persons or firms engaged in the line of work required at the discretion of the Architect from the Department of Architecture, Capitol, Albany N. Y., upon the deposit of a certified check, or money, in the sum of $25.00 made payable to the State of New York, for each set of Construction drawings and specifications and $10.00 for each set of Heating, Sanitary or Electric drawings and specifications, which deposit will be returned if the drawings and specifications are received in good condition by the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated: May 7, 1925.

Bids: June 8.

Concrete Arch Bridge

Camden, N. J.

Sealed proposals are invited for building a three-span concrete arch bridge over Newton Creek at Champion Road, Gloucester City, County of Camden, N. J. Width is forty-nine and one-half (49½) feet by two hundred fifty-nine (259) feet overall.

Plans and specifications will be mailed to any address on receipt of one (1) dollar. Plans can be seen at the office of County Engineer in Court House, Camden, N. J.

Bids will be received, immediately opened and publicly read at the Court House, Camden, N. J., on Monday, June 8th, 1925, at 11 a.m. Daylight Saving Time.

Each bid must be accompanied with a certified check in the sum of ten (10) per cent of amount of bid and drawn to order of John W. Sell, County Treasurer; there must also be a surety company bid letter.

The County reserves the right to reject any or all bids and decide as to responsibility of bidder.

FRED W. GERCKE,
Chairman Bridge Committee.
J. J. ALBERTSON,
County Engineer.

OFFICIAL PROPOSALS

Bids: June 11.

Street Improvement

Jackson, Tenn.

Sealed proposals will be received by the undersigned until 10 o'clock a.m. on Thursday, June 11th, 1925, for the improvement of certain streets in the City of Jackson, Tenn., in accordance with plans, profiles and specifications prepared and on file in the office of the City Commission, approximating 43,000 sq.yds. of pavement, 27,000 lineal ft. concrete curb and gutter, 1,100 ft. storm sewer. Bids are requested on sheet asphalt, Topeka, and vertical fibre brick on a concrete base and on 6 inch, or course concrete pavement. Bids on other types may be submitted also.

Each bid must be accompanied by a certified check or bidder's bond in the amount of ten per cent of the cost of the work, computed on the basis of the bid submitted. The right is reserved to reject any or all bids. At 10 o'clock a.m. on said date, all bids will be opened and publicly read. A deposit of $5.00 is required for each set of specifications, returnable when bid is submitted or upon return of specifications.

C. E. GRIFFIN,
Commissioner of Public Utilities.
E. R. DIKE,
City Engineer.

Bids: June 16.

Sewage Disposal Plant

Wheaton, Ill.

Sealed proposals for the construction of a sewage disposal plant, and appurtenant construction work, will be received by the Wheaton Sanitary District, Du Page County, Illinois, at its office, in the City Hall, in the City of Wheaton, Illinois, until June the 16th, 1925, at the hour of 8 o'clock p.m., Daylight Saving Time, at which time and place said bids will be publicly opened and declared.

The work consists of the following items to wit:

A complete Sewage Disposal Plant consisting of:

Tanks and Pump Pit.

Tank and Pumping Station Superstructure.

Piping in and around plant.

Slug Beds.

to be made in accordance with the maps, plats, plans, profiles and specifications for the same on file in the office of the clerk of said Sanitary District, Wheaton, Illinois, also at the office of Alvord, Burdick & Howson, Consulting Engineers, 8 South Dearborn Street, Chicago, Illinois, and A. L. Webster, Chief Engineer, Wheaton, Illinois.

All other information may be obtained from the above offices. Also blanks for bidders, with instructions attached thereto.

Dated: Wheaton, Illinois, May 14, A.D. 1925.

WHEATON SANITARY DISTRICT.
FRED D. EWELL,
Pres.
HUGO SCHMIDT,
Clerk.

Bids: June 3.

Building Alterations

Warren, Ohio.

City of Warren, Ohio. Bids opened June 3rd. Four three story buildings, demolishing old fronts cut off seven feet and replace new fronts and other alterations in connection with street widening.

Plans may be secured by a deposit of $5.00 which will be refunded on return of same.

OFFICIAL PROPOSALS

Bids: July 1.

Erection and Completion of the Alterations and Additions to the Grant Park Stadium, Chicago

SOUTH PARK COMMISSIONERS

Chicago, Ill.

Sealed proposals will be received by the South Park Commissioners, 57th Street and Cottage Grove Avenue, Chicago, Illinois, until 12:00 o'clock, noon, July 1, 1925, for doing all the work in the complete construction and erection of Alterations and Additions to the Stadium to be erected on the Lake Front between Roosevelt Road and Sixteenth Street extended, Chicago, Illinois, in accordance with drawings and specifications, entitled "Alterations and Additions to Stadium, Grant Park," prepared by Holabird & Roche, Architects. Copies of the specifications including bidding sheets and plans may be obtained at the office of the South Park Commissioners, 57th Street and Cottage Grove Avenue.

Separate bids are invited for the work to be done as specified under each of the following headings:

1—General Work.
2—Drainage, Plumbing and Gatfitting.
3—Electric Wiring.
4—Heating and Ventilating.
5—Coal and Ash Handling Machinery.
6—Grand Stands and Boxes.

Only bids from those of record in the office of the South Park Commissioners as having received specifications will be considered.

All specifications, including bidding sheets, must be identified by the stamp of the Secretary of the South Park Commissioners thereon. No bid will be considered which is not submitted on a bidding sheet received from the South Park Commissioners and identified as above described.

Two copies of specifications and one set of plans will be furnished on application to each prospective bidder upon the deposit of $50.00, which deposit will be refunded upon return of plans in an unmutilated and serviceable condition. Bidding blanks to be used will be found in the specifications. Facilities will be provided for preliminary examination of plans by bidders who do not wish to remove plans from the office. A deposit to the amount of two and one-half per cent (2½%) of the aggregate amount of the highest proposal named in the submitted bid, either in currency or certified check, payable to the South Park Commissioners, must accompany such proposal as a guarantee of the good faith of the bidder.

The successful bidder will be required to enter into a contract and give a surety bond for 25% of the amount of his contract.

All proposals must be placed in a sealed envelope, plainly marked as stated below, which envelope shall be delivered to the Secretary of the South Park Commissioners at 57th Street and Cottage Grove Avenue before the time limit stated above.

According to the bid contained therein, the envelope shall be marked as follows:

"Proposal for ..... of the alterations and additions to Stadium."

The South Park Commissioners reserve the right to reject any or all proposals.

E. J. WHITTY,
Secretary.

CONSTRUCTION NEWS

Engineering News-Record, June 4, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Roads, Corsicana, Tex., Navarro Co. bond election, $7,000,000.

Office, New York, N. Y., Mandel-Ehrlich Corp. having plans prepared, $7,000,000.

Office, New York, N. Y., Mandelbaum & Levine, having plans prepared, $6,000,000.

Office, New York, N. Y., Royal Insurance Co., Ltd., having plans prepared, $4,000,000.

University building, Berkeley Calif., state plans bond election, $3,000,000.

Warehouse, Houston, Tex., G. B. Post & Son plan to build, $3,000,000.

Apartment hotel, Brooklyn, N. Y., Leverich Towers having plans prepared, $3,000,000.

Church and hotel, New York, N. Y., Calvary Baptist Church having plans prepared, $2,000,000.

Bridge, Missouri, Special Co. plans bridge, $2,000,000.

Hotel, New York, N. Y., Rosenzweig Bros. having plans prepared, $2,000,000.

Apartment, New York, N. Y., Vogel & Schultz plan building, $2,000,000.

Bridge, Vincennes, Ind., State Hy. Dept. plan bridge, $2,000,000.

Hotel, Miami, Fla., East Coast Enterprise, Inc., plans hotel, $2,000,000.

Apartment, New York, N. Y., H. A. Murray having plans prepared, $1,500,000.

Bids Wanted On Big Jobs

Legislative Hall, Olympia, Wash., June 30 by State Com., $3,750,000.

Offices, New York, N. Y., June 15 by Sloan and Robertson, $2,500,000 and $200,000 respectively.

Road Impt. June 2, Minnesota, State Hy. Dept., $1,800,000.

Temple, June 25, Dayton, O., by Dayton Masonic Lodge, $1,500,000.

Large Contracts Let During Week

Subway, New York, N. Y., Bd. of Transportation to A. A. Johnson Corp., $3,651,000; to McElroy & Kenvin, $73,915.

Pipe line, Texas, Houston Pipe Line Co. to E. A. MacPherson, $3,600,000.

Hydro-Electric development, Saluda, N. C., Blue Ridge Power Co. to Rinehart & Dennis Co., $2,000,000.

Apartment, New York, N. Y., L. E. Kleban, Inc., $1,500,000.

Hotel, Canton, O., Stark Hotel Co. to Caldwell & Evans, $1,500,000.

Office, Minneapolis, Minn., M. T. Baker to J. Leck Co., $1,000,000.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
June 5	Cincinnati, O.	June 4
June 5	Windsor, Ont.	June 4
June 8	Gainesville, Fla. Adv. May 21 to June 4.	May 21
June 8	Springfield, Ill.	June 4
June 8	Milwaukee, Wis.	June 4
June 9	New York	June 4
June 9	Montclair, N. J.	May 28
June 10	Baltimore, Md.	June 4
June 10	Minneapolis, Minn.	June 4
June 11	Marion, Ky. Adv. May 28 and June 4.	May 28
June 11	Cavour, S. D.	June 4
June 12	Windsor, Ont.	June 4
June 12	Wewoka, Okla.	May 28
June 12	Rockham, S. D.	June 4
June 12	Medford, Wis.	June 4
June 15	Tuscaloosa, Ala.	May 21
June 15	Manchester, N. H.	June 4
June 17	Willard, N. Y. Adv. May 28 and June 4.	May 28
June 18	Mansfield, O.	June 4
June 24	Greenville, S. C. Adv. May 21 to June 4.	May 21
June 25	Medina, O.	June 4
June 30	Macon, Ga. Adv. June 4.	June 4
July 20	Oakland, Calif. Adv. June 4.	June 4
	SEWERS	
June 5	Lackawanna, N. Y.	May 14
June 5	Gettysburg, Pa.	May 28
June 5	Sankertown (mail Johnstown), Pa.	June 4
June 8	Maryland Adv. May 21 to June 4.	May 21
June 8	Boston, Mass.	May 28
June 8	San Fernando, Calif.	May 28
June 8	Akron, O.	June 4
June 8	Port Washington, Wis.	June 4
June 8	Port Arthur, Tex.	June 4
June 8	Detroit, Mich.	June 4
June 9	Forest City, N. C.	June 4
June 9	St. Louis, Mo.	May 21
June 9	Mt. Pleasant, N. Y.	May 21
June 9	Montclair, N. J.	May 28
June 9	Holdredge, Wis.	May 28
June 9	Phila., Pa.	June 4
June 10	Norfolk, Va.	May 28
June 10	Dumont, N. J. Adv. June 4.	June 4
June 10	Cleveland, O.	June 4
June 10	Port Arthur, Tex.	June 4
June 12	Cincinnati, O.	June 4
June 15	New Castle, Pa. Adv. May 21 to June 4.	May 28
June 15	Manchester, N. H. Adv. June 4.	June 4
June 15	Centerville, Ia.	June 4
June 16	Salisbury, Md. Adv. May 14 to June 4.	May 14
June 16	Clewiston, Fla.	May 21
June 16	Wheaton, Ill.	May 28
June 16	Dickson, Tenn.	June 4
June 16	Centerville, Ia.	June 4
June 18	Brighton (Ind. Sta. Rochester), N. Y. Adv. June 4.	June 4
June 19	Baltimore, Md.	June 4
June 22	Catonsville (Br. Baltimore), Md. Adv. June 4.	June 4
June 25	Kansas City, Mo. Adv. June 4.	June 4
June 30	Louisville, Ky. Adv. June 4.	June 4
	BRIDGES	
June 5	Dayton, O.	June 4
June 8	Gloucester, N. J.	May 28
June 8	Cincinnati, O.	June 4
June 8	Washington, Pa.	June 4
June 9	Washington, D. C.	May 14
June 9	Chester, Pa.	May 21
June 9	Bastrop, La.	May 28
June 9	North Carolina	June 4
June 9	Somerville, N. J.	June 4
June 13	Beaver, Ark.	June 4
June 15	New Jersey Adv. June 4.	June 4
June 15	Pismo (Pismo Beach P. O.), Calif.	June 4
June 16	Louisiana	May 28
June 16	Minnesota	June 4
June 17	Alabama	May 21
June 22	California	June 4
June 22	New Jersey Adv. June 4.	June 4
June 30	Tampa, Fla. Adv. May 28 and June 4.	May 28
July 8	Alabama	June 4
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
June 5	Saulte Ste. Marie, Mich.	May 21
June 6	Cairo, Ill.	May 28
June 10	Shreveport, La.	June 4
June 10	Fairmont, Minn.	June 4
June 11	Webster City, Ia.	June 4
June 15	Leesburg, Fla. Adv. May 14 to June 4.	May 14
	STREETS AND ROADS	
June 5	New York Adv. May 21 to June 4.	May 28
June 5	Roselle Park (Ind. Br. Elizabeth), N. J.	May 28
June 5	Cincinnati, O.	June 4
June 5	Mt. Oliver, Pa.	June 4
June 6	Hattiesburg, Miss.	June 4
June 8	Milwaukee, Wis.	June 4
June 8	New York, N. Y.	June 4
June 8	Kentucky	May 21
June 8	New Jersey	May 28
June 8	Southmont, Pa.	May 28
June 8	Lambertville, N. J.	May 28
June 8	Long Island City, N. Y.	June 4
June 8	Washington, Pa.	June 4
June 8	Council Bluffs, Ia.	June 4
June 8	Madrid, Ia.	June 4
June 8	Michigan	June 4
June 9	New Jersey	June 4
June 9	Ontario	June 4
June 9	St. Louis, Mo.	May 28
June 9	Washington	May 28
June 9	Holdredge, Neb.	May 28
June 9	Seattle, Wash.	May 28
June 9	North Carolina	May 28
June 9	Pennsylvania	June 4
June 9	Columbus, O.	June 4
June 9	Rocky River, O.	June 4
June 9	Palestine, Tex.	June 4
June 9	Milwaukee, Wis.	June 4
June 10	Pekin, Ill. Adv. May 28 and June 4.	June 4
June 10	Duluth, Minn.	Apr. 9
June 10	Corning, Calif.	May 28
June 10	Brooklyn, N. Y.	June 4
June 10	Norwood, N. J. Adv. June 4.	June 4
June 11	Gananoque, Ont.	June 4
June 11	Jackson, Tenn.	June 4
June 11	North Dakota	June 4
June 11	Gatesville, Tex.	June 4
June 11	Henderson, Ky.	June 4
June 11	New York, N. Y.	June 4
June 12	Cartersville, Ga.	June 4
June 12	Okemah, Okla.	June 4
June 12	Wauwatosa, Wis.	June 4
June 12	Michigan	June 4
June 12	Alpine, Tex.	June 4
June 12	Jourdanton, Tex.	June 4
June 14	Moundsville, W. Va.	May 28
June 15	Anderson, Ind.	May 28
June 15	Crestview, Fla.	May 28
June 15	Minneapolis, Minn.	May 28
June 15	California	June 4
June 15	New Jersey Adv. June 4.	June 4
June 15	Richmond, Tex.	June 4
June 15	Kirksville, Mo.	June 4
June 15	Akron, O.	June 4
June 15	Oklahoma	June 4
June 15	Drumright, Okla.	June 4
June 16	Minnesota	June 4
June 16	Hudson, N. Y. Adv. June 4.	June 4
June 16	Cheswick, Pa.	June 4
June 17	Phila., Pa. Adv. May 21 to June 4.	May 21
June 17	Belvidere, N. J. Adv. June 4.	June 4
June 18	Mansfield, O.	June 4
June 18	Louisiana	June 4
June 19	Farmington, Mo.	May 28
June 22	New Jersey Adv. June 4.	June 4
June 22	California	June 4
June 26	New York Adv. June 4.	June 4
June 28	Cudahy, Wis.	June 4

Bids Close		See Eng. News-Record
June 30	St. Louis, Mo.	June 4
July 1	Deland, Fla. Adv. June 4.	June 4
July 8	Alabama	June 4

BUILDINGS—INDUSTRIAL

June 5	Phila., Pa.	June 4
June 8	New York, N. Y.	June 4
June 10	Superior, Wis.	May 21

BUILDINGS—COMMERCIAL

June 5	Chester, Pa.	June 4
June 6	Newport, R. I.	June 4
June 8	Erie, Pa.	May 28
June 8	Port Arthur, Tex.	June 4
June 9	Altoona, Pa.	June 4
June 9	Detroit, Mich.	June 4
June 10	Merrill, Wis.	May 28
June 10	Joliet, Ill.	June 4
June 12	Baton Rouge, La.	June 4
June 15	Portland, Ore.	June 4
June 15	New York, N. Y.	June 4
June 15	Cleveland, O.	June 4
June 16	Newkirk, Okla.	May 28
June 17	Marcy, N. Y.	May 28
June 17	Manchester, Conn.	June 4
June 20	Dayton, O.	June 4
June 24	Creedmoor (Jamaica P. O.), N. Y. Adv. June 4.	June 4
June 25	Dayton, O.	June 4
June 30	Olympia, Wash.	June 4
July 14	Phila., Pa.	Feb. 19
July 15	Brooklyn, N. Y.	May 21

BUILDINGS—EDUCATIONAL, RELIGIOUS

June 5	Bridgewater, Mass.	June 4
June 7	Worcester, Mass.	May 28
June 9	Piketown, O.	June 4
June 9	Kirksville, Mo.	June 4
June 9	Baltimore, Md.	June 4
June 10	Evanston, Ill.	Apr. 23
June 10	Burlington, Vt.	May 28
June 17	Denver, Colo.	June 4
June 18	Eltingville (Sta. Staten Island), N. Y.	June 4
June 22	Longmont, Colo.	June 4
June 30	Elwood City, Pa.	June 4
July 1	San Francisco, Calif.	May 28

FEDERAL GOVERNMENT WORK

June 8	Boilers — Portsmouth, N. H.	May 14
June 8	Post Office—Ellsworth, Me.	May 14
June 9	Alterations—Minneapolis, Minn.	May 28
June 10	Boilers—Burlington, Vt.	May 14
June 10	Buildings, etc.—San Diego, Calif.	May 14
June 10	Remodeling—Pittsburgh, Pa.	May 21
June 10	Road—Point St. George, Calif.	May 28
June 11	Post Office — Vineland, N. J.	May 21
June 11	Breakwaters—Ohio Adv. May 21 to June 4.	May 21
June 11	Road—Washington	June 4
June 11	Addition—Hot Springs, Ark.	June 4
June 11	Road—Montana	June 4
June 11	Road—Oregon	June 4
June 12	Road—Idaho	June 4
June 12	Road—Oregon	June 4
June 12	Road—Montana	June 4
June 13	Stone—San Francisco, Calif.	May 28
June 15	Barge—Montgomery, Ala. Adv. May 21 to June 4.	May 21
June 15	Road—Colorado	May 21
June 15	Road—Montana	May 28
June 16	Heating Plant—Mobile, Ala.	May 21
June 16	Electric Light Plant—Brunswick, Ga.	May 21
June 16	Fire Alarm System—Whipple Barracks, Ariz.	May 21
June 16	Cable, etc.—Whipple Barracks, Ariz.	May 21
June 16	Structures—Powell, Wyo.	May 28
June 17	Hospital and Quarters—New Orleans, La.	May 28
June 17	Heating System—New Orleans, La.	May 21
June 17	Paving, etc.—Brooklyn, N. Y. Adv. June 4.	June 4
June 17	Water System—Wash., D. C.	June 4
June 17	Paving—Phila., Pa.	June 4
June 17	Remodeling—Phila., Pa.	June 4
June 17	Boilers—Parris Island, S. C. Adv. June 4.	June 4
June 18	Incinerator—New Orleans, La.	May 21
June 18	Pier—Rosebank, N. Y.	May 28
June 19	Remodeling—Norwich, Conn.	May 21
June 22	Post Office—Missoula, Mont.	May 28
June 22	Post Office—Holly Springs, Miss.	May 28
June 22	Power Plant Equipment—Parris Island, S. C. Adv. June 4.	June 4
June 22	Dredging—Quantico, Va.	June 4
June 23	Sewers—Baltimore, Md.	May 28
June 23	Quarters—Memphis, Tenn.	May 28
June 24	Post Office, Paterson, N. J.	May 28
June 25	Post Office—New London, Conn.	May 28
June 25	Post Office—St. Petersburg, Fla.	May 28
June 26	Jetty—Nantucket, Miss. Adv. May 28 and June 4.	June 4
July 1	Remodeling—New York, N. Y.	June 4
July 2	Remodeling—Lynn, Mass.	June 4
July 3	Post Office—Lowell, Mass.	June 4
July 3	Dredging—Bridgeport, Conn. Adv. June 4.	June 4
July 7	Bridges, Florence, Ala. Adv. May 21 to June 4.	May 28
July 9	Remodeling—Providence, R. I. Adv. June 4.	June 4
July 19	Pipe Line Dredge—Jacksonville, Fla. Adv. June 4.	June 4
July 29	Hospital—Canacao, P. I.	May 21

UNCLASSIFIED

June 5	Special Work—New York	May 28
June 8	Core Borings—New Jersey	May 28
June 8	Transmission Line—Bryson City, N. C.	June 4
June 9	Underpass—Ocala, Fla.	May 28
June 9	Wharf Repairs—Baie St. Paul, Que.	May 28
June 9	Stadium—West Allis, Wis.	May 28
June 9	Dock Repairs—Kincardine, Ont.	May 28
June 9	Dock—Baton Rouge, La.	May 28
June 10	Station Finish—Long Island City, N. Y.	May 28
June 11	Dock, etc.—Baton Rouge, La.	May 21
June 12	Subway—New York, N. Y.	June 4
June 13	Lighthouse—Leamington, Ont.	June 4
June 15	Retaining Wall, etc.—Sanford, Fla.	June 4
June 16	Electrical and Refrigerating Equipment — New York, N. Y.	May 21
June 17	Heating System—Geneva, N. Y. Adv. May 21 to June 4.	May 21
June 18	Grain Elevator—Houston, Tex.	June 4
June 26	Breakwater—Long Beach, Calif. Adv. June 4.	June 4

MATERIALS

June 9	Paving Blocks—New York, N. Y.	June 4
June 10	Asphalt—Cleveland, O.	June 4
June 12	Roofing Materials, etc.—New York, N. Y.	June 4
June 12	Ties and Timber—New York, N. Y.	June 4
June 15	Asphaltic Oil, etc.—Trenton, N. J. Adv. June 4.	June 4

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Massachusetts—Dept. Pub. Wks., Boston, plans surface drains, manholes, catch basins, etc. in Chelmsford St., North Monroe Terrace and private land in Dorchester. $25,000. J. A. Rourke, comr.

R. I., Providence — Water Supply Bd. plans covered reservoirs in Johnston and North Providence. $15,000 or more. B. T. Potter, chn.

Connecticut—Special Committee, C. M. Saville, 53 North Beacon St. (interested) plans additions to water supply at Mansfield State Training School, Mansfield, and Connecticut Agriculture College, Storrs. $200,000.

N. Y., Potsdam—Plans to place at next election proposition to raise by taxation $285,000 to be expended with present water fund surplus of $40,000 in securing adequate water supply from unpolluted sources.

S. C., York—See "Sewers."

Fla., Crystal Springs—Plans waterworks and sewer in various streets. E. V. Camp and associates, 1 North Moreland Ave., Atlanta, Ga., engrs.

Wis., Deerfield — E. Helmicks, village clk., making plans additional water supply, incl. 50,000 gal. concrete reservoir, one well 300 ft. deep, 12 in. diam., one 300 g.p.m. centrifugal pump, etc. $8,000. W. G. Kirchoffer, 22 North Carroll St., Madison, engr.

Minn., Moorhead—Plans election $[illegible],000 bonds improving present water and light plant.

Mo., St. Louis — Making preliminary plans 600 x 800 ft. rein.-con. covered storage reservoir, 35 ft. deep, 100 m.g. capacity, at Olive St. between Watson and Bonhome Rds., $1,500,000. Private plans.

Tex., Bay City — Election soon $50,000 bonds, waterworks improvements, incl. mains, pumping equipment, etc. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Apr. 16.

Tex., O'Donnell — Election soon $40,000 bonds for waterworks. Devlin Engineering Co., 119 Central Bldg., Amarillo, engrs.

Tex., Vernon — Voted $15,000 bonds, waterworks improvements. H. Mason, mayor. Noted Apr. 16.

Tex., Wharton—Made preliminary plans waterworks improvements, incl. well, mains and pumping equipment. Election soon $50,000 bonds for same. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Apr. 16.

Okla., Henryetta — Making plans new water supply, reservoir, pipe line, new pumping equipment and addition to filtration plant. $75,000. Holway Eng. Co., Wright Bldg., Tulsa, consult. engrs. Noted Apr. 16.

Okla., Okemah—Election June 15, $200,000 bonds for new waterworks, incl. mains, tank, hydrants, motor driven centrifugal pumps, etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 5.

Okla., Okmulgee — Making plans new water supply on Salt Creek, incl. reservoir, pipe line and new pumping equipment. $1,000,000. Holway Eng. Co., Wright Bldg., Tulsa, consult. engrs. Noted Apr. 16.

Wash., Seattle—Bd. Pub. Wks. rejected bids May 15, 9,555 ft. 8 and 12 in. c.i. mains in 46th Ave. S. W. $29,070. Noted May 28.

Calif., Eureka—Making surveys for water supply system, incl. 10 mi. pipe line, 420 ft. impounding dam, 150 ft. high on Jacoby Creek. To exceed $350,000. N. B. Ellery, City Hall, Eureka, engr.

Calif., Orange—Plans election $1,200,000 bonds, for water plant, incl. 47,000,000 gal. reservoir, wells, pumping plant, distribution system, etc.

Ont., Mactier—Plans pumping plant and distribution system. $25,000. James Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

New York — June 9, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, alterations to structures along 72 in. steel pipe line necessitated by construction of Conduit Blvd. in Queens and Nassau Counties.

Md., Baltimore—June 10, by Bd. Awards, superstructures of chemical filter and shelter buildings, pumping station and garage, at Montebello Ave. filters, Harford Rd. and 33rd St. Former bids rejected. V. B. Siems, City Hall, water engr. Noted May 21.

Ga., Macon—June 30, by City Clerk, steel and concrete reservoir. R. B. Cowen, city engr. Fuller & McClintock, 170 Bway., New York City, engrs. Noted May 28.

Fla., Deland—See "Streets and Roads."

Miss., Hernando—S. W. Eaton, city clk., taking bids 50,000 gal. tank on tower, 4 mi. c.i. and galvanized mains, 6 in. well and pumping equipment. $20,000. Noted Apr. 16.

O., Cincinnati—June 5, by Comrs. Hamilton Co., 22,760 ft. 6 and 8 in. c.i. mains in Water Supply Line 12, Dist. 4 (Harrison Park, Race Ave. and School Section Rd.), $50,757; 41,384 ft. 6 and 8 in. c.i. mains in Water Supply Line 19, Dist. 1 (Osceola Park, Maderia Heights and Drake Rd.), $86,349; 22,393 ft. 6 and 8 in. c.i. mains in Water Supply Line 11, Dists. 4 and 5 (Muddy Creek, Anderson Ferry and Foley Rds.), $51,446. L. C. Boyatt, Court House, engr.

O., Cleveland—See "Sewers."

O., Columbus—See "Streets and Roads."

O., Mansfield—June 18, by H. C. Lynch, dir. Pub. Serv., City Hall, 43 tons 4 and 6 in. c.i. pipe and fittings, 270 lin.ft. 1½ in. galvanized pipe, two 4 in. and three 6 in. valves, etc., f.o.b. Mansfield. W. C. Statler, city engr.

O., Medina—June 25, by Comrs. Medina Co., mains in Chippewa Sanitary Dist. $40,000. R. F. MacDowell, 1770 East 11th St., Cleveland, engr.

Waterworks (Continued)

Ill., Springfield—June 8, by City Comrs., water softening and iron removal plant, incl. 1 or more motor driven centrifugal pumps, of deep well turbine type, 2,800 g.p.m., 4,200 g.p.m. or 5,600 g.p.m. capacity. Burns & McDowell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs.

Wis., Medford — June 12, by O. K. Blakeslee, city clk., watermain extensions, incl. 7,500 lin.ft. Class C iron pipe, four 6 in. valves, 4 valve boxes, 3 tons lead and 2 tons special fittings, 250 lbs. jute, etc. To exceed $15,000. McMahon & Clark Eng. Co., Menasha, engrs.

Wis., Milwaukee—June 8, by Dept. Pub. Wks., 9,814 ft. 6 ft. 6 in., 2,465 ft. 8 in. and 2,316 ft. 12 in. c.i. mains in various streets. City to furnish pipe. J. Schwada, city engr.

Minn., Minneapolis — June 10, by F. S. Gram, city purch. agt., 10 operating tables in filter operating gallery; three (each) high and low centrifugal service pumps, also synchronous motors for high and low centrifugal pump drives, etc., at Fridley Pumping Station.

S. D., Cavour — June 11, 1,500 ft. 4- to 8-in. c.i. pipe, 25,000 gal. elevated steel tank, and 10 hp. motor. Dakota Eng. Co., Mitchell, engrs.

S. D., Rockham—June 12, 5,590 ft. 4- to 8-in. c.i. pipe, 50,000 gal. elevated steel tank, 4 x 6 triplex centrifugal pump, also 20 hp. gas engine. Dakota Eng. Co., Mitchell, engrs.

Calif., Oakland — July 20, by East Bay Municipal Utility Dist., Ray Bldg., 1924 Bway., dam to impound waters of Mokelumne River, near Lancha Plana, aqueduct of tunnels, pumping plant, etc. J. H. Kimball, secy.; adv. E. N.-R. June 4. Noted May 28.

Ont., Windsor—June 5, by R. B. Braid, secy. Essex Border Utilities Comn., 42 hub end gate valves, 6- to 12-in. diam. J. C. Keith, Murray Bldg., engr.

Ont., Windsor—June 12, by E. B. Braid, secy. Essex Border Utilities Comn., 33,000 lin.ft. 14- to 24-in. diam. c.i. mains, also 20, 30 and 36 in. gate valves, and 30 in. automatic float and flap valves in various Streets. J. C. Keith, Murray Bldg., engr.

BIDS RECEIVED

Md., Baltimore—Bd. Awards, copper wire to Water Dept., from Chase Co., Waterbury, Conn., $13,900; brass service pipe fittings, from Mueller Co., Decatur, Ill., $43,400. Noted May 14.

O., Cleveland—Cuyahoga Co., 6,300 ft. 6 and 8 in. c.i. mains in Lee Rd. and Lee Harvard Subdivision, Impvt. 552, from Hanna & Michael, Erie Bldg., Cleveland, $19,702. Noted May 14.

CONTRACTS AWARDED

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, about 7,380 lin.ft. 36 in. mains in Arlington and Somerville, to C. H. R. Constr. Co., 67 Harrison St., Boston $205,775; furnishing and laying 3,000 lin.ft. and laying 1,440 lin.ft. 48 in. c.i. in Somerville and Medford, to C. M. Byrne, 31 Church St., Winchester, $96,422. Noted Apr. 9 and May 14.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Ave. I, 9th and Hegeman Aves., 53rd and East 93rd Sts., to N. DeStefano, 257 Glenn Ave., Tompkinsville, and L. Bignalo, $78,813. Noted May 28.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Queens Blvd., here, to Paladino Contg. Co., 437 East 120th St., New York City, $116,-729. Noted May 28.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in East Willston, 83rd, 86th and 91st Aves., 246th, 247th, 257th, 258th, 259th, 260th, 261st, 262nd and 263rd Sts. $48,393, Constantia, Columbia, Luther and Pettit Places, 43rd and 76th Rds., Moore, Meade, 87th, 148th, 155th, 160th, 161st, 162nd and 164th Sts., Fosdick, Lafayette, Metropolitan, Mt. Olivet, 58th, 32nd, 33rd, 59th and 77th Aves., to J. A. Gregory, 351 East 124th St., New York City, $11,275. Noted May 28.

O., Painesville—City, 35 x 80 ft. pump room, 35 x 35 ft. filter building, three 20 x 24 ft. concrete basins, 12 ft. deep and gravity sand filters, etc., to Pitt Constr. Co., Diamond Bldg., Pittsburgh, Pa. Engrs. est. $40,000. Noted Apr. 16.

Ind., Anderson—City, new turbine engine and appurtenance, to Westinghouse Co., East Pittsburgh, Pa., $118,000.

Wis., Madison—City, W. W. Winckler, clk., limestone sprinkling filters, to N. Quinn, 515 West Johnson St., $197,000 Engrs. est. $190,000.

Minn., St. Cloud—J. D. McKenzie, city clk., 3,588 ft. 4 and 6 in. c.i. mains in various streets, etc., to E. T. Webster, 1463 Goodrich Ave., St. Paul, $14,742; also 2,254 ft. 6 in. c.i. mains in various streets, to C. Kropp & Son, 707 7th Ave. S., $4,341.

Kan., Arkansas City — Waterworks extensions, to Stanton & Wallace, Leavenworth, $58,287. Noted Apr. 30.

Kan., Haviland—For 22,578 ft. 2- to 6-in. c.i. pipe, 7,020 lb. specials, 24 hydrants, 13 gate valves, 50,000 gal. tank on tower, two 150 ft. wells, 1 motor driven and 1 gasoline engine driven deep well pumping plant, etc., to Burt & Tripp, Hutchinson, $33,444. Noted Apr. 16.

Mo., Independence—Independence Water Co., 226 North Liberty St., 2 m.g. reservoir and feeder mains, to C. L. Johnson, Warrensberg, $42,994. Noted May 28.

Ark., Magnolia—For 41,754 ft. 4 and 6 in. c.i. and 10,550 ft. 2 in. galvanized mains, 131 manholes, 12 flush tanks, 2 disposal plants, also 55,370 ft. 8- to 15-in. vitr. clay sewers in various streets, to McEachin & McEachin, Southern Trust Bldg., Little Rock, $119,803.

Tex., Houston—City, settling tank for Scott St., water plant, to A. M. Arnold, Scanlon Bldg., Houston, $16,500, engrs. est. $16,000; 2 wells, 200 g.p.m. capacity, to Layne—Texas Co., 1111 6th St., $55,500, engrs. est. $60,000; 2 pumps to H. A. Payne, Houston, $5,500, engrs. est. $5,000. Grand Total $77,500.

Calif., La Mesa—See "Sewers."

Sewers

PROPOSED WORK

Mass., Dorchester (Boston P. O.)—Dept. Pub. Wks., Boston, plans sewers in North Munroe Terrace, Estella and Chelmsford Sts., here. $25,000. J. A. Rourke, comr.

Mass., Medford — Bd. Aldermen appropriated $26,000, sewers in various streets.

Mass., West Roxbury (Boston P. O.)—Dept. Pub. Wks., Boston, plans sewers in Arborway, Sturges Road, Vermont and Potomac Sts., here. $30,000. J. A. Rourke, comr.

R. I., Providence—Plans sewerage works in Ada and Hunnewell Aves., Cutler, Berlin and Dante Sts. $25,000. J. B. Ballard, chn. com. on sewers.

S. C., York—Election soon $35,000 bonds sewers and watermains in various streets.

Fla., Crystal Springs—See "Waterworks."

O., Cincinnati—Hamilton Co. plans sewage treatment plant and 165,626 ft. 6- to 12-in. vitr. clay sewers in Sewer 3, Dist. 2 (Mt. Healthy North College Hill-Steeles Subdivision). $623,800. L. C. Boyatt, Court House, engr.

O., Euclid—City takes bids in summer, sewers in 5 allotments, $50,000; storm and sanitary sewers in Euclid Ave. and Roseland Dist. 5. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., St. Bernard (Ind. Br. Cincinnati)—Plans 1,018 ft. 7- to 36-in. vitr. clay and 2,631 ft. 42- to 57-ft. brick sewer through private property between Rapid Transit right-of-way and Bank Ave. $74,000. F. Krug, City Hall, engr.

Ill., La Grange Park (La Grange P. O.)—Making preliminary plans 271 ft. 24- to 48-in. sewers under railroad right-of-way, and 69,541 ft. 10- to 72-in. sewers, etc., in Special Assessment Dist. 28. $488,622.

Wis., Janesville—City making plans and will probably lay approximately 2 mi. 12 in. vitr. sewers in various streets, by day labor. To exceed $25,000. C. V. Kerch, City Hall, engr.

Wis., Lake (Oakwood P. O.)—W. Barbeau, town clk., soon takes bids 5 or 6 mi. vitr. or concrete sanitary sewers in various streets. To exceed $25,000. H. C. Webster, 216 West Water St., engr.

Tex., Galveston—Voted $200,000 bonds for sewer extensions. C. A. Holt, Jr., city engr. Noted Apr. 9.

Tex., Harlingen—Election soon $75,000 bonds, complete sewerage system. Address Mayor.

Tex., San Augustine—Rejected bids May 4, sanitary sewerage system and disposal plant. Will readvertise. $35,000. W. A. French, San Augustine, engr. Noted Apr. 2.

Wash., Centralia—City Council making plans and takes bids about June 18, 7 mi. 10- to 24-in. trunk sewer in west and northwest sections of city. $72,000. N. W. Avery, Centralia, engr.

Calif., Roseville — Plans election $75,000 bonds, removing present sewage plant to new location, extending sewerage system and constructing new sewer lines.

Calif., Stockton—Made plans 7,320 lin.ft. 4 in. vitr. sewer, incl. 253 curves and 11,216 lin.ft. 6 in. vitr. sewer with wyes, etc. in Yosemite sub-division. W. B. Hogan, city engr.

Ont., Ford — Plans storm sewer in Parent Rd., and sanitary sewers in Rossini Blvd. and Franklin St. $88,000. J. F. Foster, city engr.

Ont., Windsor — Plans crock sewers in Tecumseh Rd., Pelissier, Dougall and Victoria Aves. $37,500. A. Brian, city engr.

BIDS DESIRED

N. H., Manchester—June 15, by L. B. Hoyt, surv. Dept. Highways, City Hall, completing construction and installing Beach St. Intercepting Drain, incl. branch drains and appurtenances. Fay, Spofford & Thorndike, 200 Devonshire St., Boston, Mass., consult. engrs.; adv. E. N.-R. June 4.

N. Y., Brighton (Ind. Sta. Rochester)—June 18, by Bd. Sewer Comrs. Brighton Sewer Dist. 2, at office W. S. Lozier, engr., 321 Cutler Bldg., Rochester, sewers, here; adv. E. N.-R. June 4.

N. Y., Brooklyn — See "Streets and Roads."

N. J., Dumont—June 10, by Mayor and Council, completing and constructing sewerage system. T. F. Rowe, 110 William St., New York City, consult. engr.; adv. E. N.-R. June 4.

Pa., Phila.—June 9, by Dept. Pub. Wks., Bureau Engineering (Schedule A) branch sewers; (schedule B) main sewers in Robins, Church, 34th and Bristol Sts.; (Schedule C) sewage treatment project, Oak Lane intercepting sewer and laboratory equipment; (Schedule D) South Phila. Impvt. sewers in Broad St. and Packer Ave., East League Island Park, Oregon Ave., stormwater ditches and incident drainage, south of Packer Ave. and West of Broad St., etc.

Pa., Sankertown (mail Johnstown)—June 5, by Boro Council, E. A. McGuire, secy., High St., Cresson, 19,112 lin.ft. 8- to 12-in. sewers in various streets. O. P. Thomas, Park Bldg., Johnstown, engr.

Md., Baltimore—June 3, by Bd. Awards, storm sewers in Dists. G-11, 46-B, P-8 and P-4, in Storm Water Contr. 83, 550 lin.ft. 5 ft. x 9 ft. 2 in., and 2,160 lin.ft. 3 ft. 6 in. x 6 ft. rein.-con. box drain, 5,875 ft. 24- to 42-in. rein.-con. and 4,858 ft. vitr. pipe. B. L. Crozier, City Hall, highway engrs.

Md., Baltimore—June 10, by Bd. Awards, 30,300 ft. 8 in. vitr. sewer, 11,900 lin.ft. 5 and 6 in. house connections, etc., in Sewer Dist. H-6-2, Contr. 218. B. L. Crozier, City Hall, highways engr.

Md., Catonsville (br. Baltimore)—June 22, by Comrs. Baltimore Co., Towson, sewers, here. A. E. Walden, ch. engr.; adv. E. N.-R. June 4.

N. C., Forest City — June 9, by L. C. Lowrance, mayor and Bd. City Comrs., septic tank and sludge bed, 4,400 ft. 10 in. outfall sewer line and 18 manholes. Carolina Eng. Co., 917-919 Johnston Building, Charlotte, engrs.

Fla., Deland—See "Streets and Roads."

Miss., Columbus—See "Waterworks."

Ky., Louisville—June 30, by Commissioners of Sewerage, Board of Trade Bldg., 3rd and Main Sts., circular and vitr. sewers, etc. J. B. F. Breed, Louisville, ch. engr. M. H. Crawford, chn.; adv. E. N.-R. June 4.

O., Akron—June 8, by W. F. Peters, dir. Pub. Serv., 17,620 ft. 8- to 18-in. vitr. clay sewer in Alton Dr. et al, $72,600; 12,520 ft. 8- to 18-in. in West Market St. et al, $64,800; 1,065 ft. 33- to 39-in. brick and 3,220 ft. 8- to 20-in. vitr. clay sewer in Laffer Ave. et al, $30,300; 270 ft. 39 in. brick and 400 ft. 8- to 24-in. vitr. clay sewer in South Main St., $12,000. J. E. Root, Delaware Bldg., engr.

O., Cincinnati—June 12, by Comrs. Hamilton Co., sewage treatment plant and 165,-626 ft. 6- to 12-in. vitr. clay sewers in Sewer 3, Dist. 2, (Mt. Healthy-North College Hill-Steele's Subvd.). $623,800. L. C. Boyatt, Court House, engr.

O., Cleveland—Realty & Securities Co., 3911 Lorain Ave., taking bids 2,863 ft. vitr. clay sewer and 3,367 ft. 6 in. c.i. mains in Bosworth Heights allotment. $25,000. Private plans.

O., Cleveland — June 10, by Bd. Comrs. Cuyahoga Co., 5,500 ft. 8- to 60-in. tile block sewer in Wagar Rd. (Impvt. 600), also 21,000 ft. 8- to 27-in. in Chestnut Hills Dr. F. Williams, Court House, engr.

O., Columbus—See "Streets and Roads."

O., Medina—June 25, by Comrs. Medina Co., sewer in Chippewa Lake Sanitary Sewer Dist. $25,000. R. F. MacDowell, 1770 East 11th St., Cleveland, engr.

Mich., Detroit — June 8, by Dept. Pub. Wks., City Hall, monolithic concrete sewers, 5,480 ft. in Hubbel Ave. Sewer, Sect. 4; 6,962 ft. in Grand River Ave. Arm East, 3,160 ft. in Grand River Ave. Arm West; 5,288 ft. Schoolcraft Ave. Arm of east Mill Rd. Sewer; 2,574 ft. Schoolcraft Ave. Arm west Hubbell Ave. Sewer; and 3,705 ft. Monier-Schoolcraft Arm of Hubbell Ave. Sewer. G. Jerome, city engr.

Wis., Port Washington—June 8, by G. S. Hales, secy. Ozankee Co. Farm Drainage Bd., sewers in Dist. 7, 20,720 ft. 6- to 20-in.

Sewers (Continued)

drain tile, 250 ft. 12 and 20 in. sewer and 72 ft. 12 and 18 in. c.i. pipe, 1 bulkhead, etc. L. M. Schindler, 401 North Clark St., engr.

Ia., Centerville—June 15, by M. G. Hall Co., engrs., Centerville, sewage disposal plant improvement, incl. remodeling septic tank, 58 x 165 ft. sprinkle filter, 30 x 90 ft. sludge bed, tank, etc., for City. $40,000.

Ia., Centerville—June 16, by E. A. Crane, city clk., remodeling septic tank, 58 x 165 ft. sprinkling filter, 70 x 94 ft. sludge bed, dosing tank, etc. $38,000. M. G. Hall Co., Centerville, engrs. Noted Apr. 2.

Mo., Kansas City—June 25, by Bd. Pub. Wks., W. T. Williams, secy., combined storm and sanitary sewer, known as "Gooseneck Sewer." Black & Veatch, and E. M. Stayton, Mutual Bldg., consult. and supervising engrs.; adv. E. N.-R. June 4.

Tex., Port Arthur — June 8, by City Comn., 17,650 ft. vitr. clay sewers, etc., in various streets. Alternate bids on furnishing labor and equipment. $40,000. J. P. Logan, mayor.

Tex., Port Arthur — June 10, by J. P. Logan, mayor, two 50,000 g.p.m., and one 20,000 g.p.m. motor-driven drainage pumps. J. C. Hamilton, city secy.

Tex., Port Arthur—Taking bids storm sewers in Shreveport Ave., incl. monolithic or precast type pipe, motor driven lift pipes, etc., $70,000. Nagle, Witt & Rollins, 1024 Keystone Bldg., Houston, and 1304 Santa Fe Bldg., Dallas, engrs.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., May 25, from Stanhy Constr. Co., Steinway Ave., sewers in Borden Ave. $4,284; from C. Pettracca, 737 Kathleen Court, Brooklyn, sewers in Cooper Ave. $590, Fisk Ave. $675, Market St. $555; from H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, $16,838. Noted May 21.

Ill., Springfield — Bd. Trustees Springfield Sanitary Dist., City Hall, sanitary and intercepting sewers, in Division A, from Hanson & Willadsen Co., Omaha, Neb., $272,242. Noted Apr. 16.

Wis., White Fish Bay — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., Milwaukee, May 28, 9,350 lin. ft. 42 in. concrete sewer, etc., in Whitefish Bay extension, here, from Nevada Constr. Co., Nevada, Ia., $215,935. Noted May 21.

CONTRACTS AWARDED

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, *(e. e. means engrs. est.)* sewers in Gravesend Neck Rd., to Manmill Constr. Co., 2035 Douglas St. 66.3% e. e. $6,065; 48th St., to S. J. Coenzo, 678 Glenmore Ave. 79.5% e. e. $797; Liberty Ave., to C. Ambrosio, 1016 69th St. 63% e. e. $700. Noted May 21.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, *(e. e. means engrs. est.)* sewers in Clarkson Ave., to Manmill Constr. Co., 2035 Douglass St., 68.67% e. e. $70,186; East 5th St., to A. W. Matarazzo, 1163 61st St. 76.99% e. e. $8,846; East 29th St., to S. Ambrosio, 1016 60th St. 83.5% e. e. $5,306. Noted May 28.

Pa., Phila.—Director Pub. Wks., Bureau Engineering, to J. Lonbardi, 601 Lincoln Bldg., main sewer in Tioga St. $124,238, Tulip St. $68,043, Erie Ave. $60,151, branch sewer in Wymefield St. $22,558; to T. A. Hamilton, Green St. and Chelton Ave., branch sewers in American St. $2,282, B St. $8,878, 75th Ave. $8,455, Washington Lane $6,996, to J. E. Paradise, 1601 Finance Bldg., Conlyn St. $9,556, to A. Bonitatibus, 300 West Pleasant Ave., Cottman St. $43,506, 8th St. $6,317, Franklin St. $7,613, Robat St. $8,705, Sedgwick St. $12,325, 79th St. $9,644, to V. S. Campellone, 812 West Venago St., Cottman St. $7,154, to P. and A. J. Ellis, 4th and Wyoming Aves., 18th St. $4,828, Spencer St. $27,042, Walnut St. $8,957, to E. F. Bennis, 825 East Washington Lane, 15th St. $3,599, Wooddale St. $18,128, to J. J. McHugh, 1617 Race St., Girard Ave. $19,356, 20th St. $17,340, to Vattieri & Pontarelli, 523 Rising Sun Ave., Mascher St. $38,675 to F. T. Buckins, 4050 Kensington Ave., Musgrave St. $1,525, Sanger St. $40,440, to A. Perna & Son, 752 South 10th St., Sedgwick St. $15,815, to W. H. Yetman, 601 Lincoln Bldg., Woodburne St. $30,911. Grand total $643,037. Noted May 14.

O., Canton—Avondale Inc., sanitary and storm water sewers in 10 streets in subdivision, New Avondale Addition to city, to Garaux Bros., Massillon Rd. Engrs. est. $150,000.

O., Euclid—For 8,030 ft. 36- to 48-in. brick sewer in Cut Road, to C. W. Jackson, 1318 East 84th St., Cleveland, $96,700. Noted May 21.

Ill., Springfield — Bd. Trustees Springfield Sanitary Dist., City Hall, sanitary and intercepting sewer in Divisions B and C, to John E. Bretz Constr. Co., 224 East Union St., $77,941 and $387,534 respectively. Noted Apr. 16.

Mo., Kansas City — Sanitary sewers in Dist. 9538, to T. P. Thompson, 3908 Forrest St., $34,110.

Ark., Magnolia—See "Waterworks."

Wash., Longview—Long-Bell Lumber Co., sanitary sewers, etc. in East Fir Unit of plant, 5,500 cu.yd. excav., 250,000 ft. trench timber and 8,400 ft. 6- to 12-in. concrete pipe, etc., to J. D. Hanley, Longview.

Calif., Claremont—For 6, 8 and 10 in. sewers with wyes in various streets, to N. Chutuk, 1506 Pleasant Ave., Los Angeles, $57,100. Noted Apr. 30.

Calif., La Mesa—Bd. City Trustee, sewer and watermains in Collier's Addition, to H. H. Peterson, Spreckels Bldg., San Diego, $35,000.

Calif., Los Angeles—Storm drains in Los Feliz Blvd. and Gleneden St., to G. W. Kemper, P. O. Box 126, Alhambra, $98,998. Noted May 14.

Calif., North Sacramento — For 62,700 lin.ft. 6- to 15-in. vitr. sewers in various streets, to Chambers & DeGolyer, Bacon Bldg., Oakland. $54,975.

Ont., New Toronto — See "Streets and Roads."

Waste Disposal

PROPOSED WORK

Tex., Galveston—Voted $75,000 bonds for garbage incinerator. C. A. Holt, Jr., city engr.

CONTRACTS AWARDED

O., Lakewood (Cleveland P. O.) — City, S. A. Wiegand, mayor, 1 story, 50 ton brick steel and concrete incinerator, Berea Rd., to Universal Destructor Co., Fulton Bldg., Pittsburgh, Pa., $84,750. Archts. est. $85,000.

Bridges

PROPOSED WORK

Mass., Medford (Boston P. O.) — Plans reconstructing bridge over Boston & Maine Ry. tracks at Medford Hillside. About $25,000.

Mass., Somerset—Dept. Pub. Wks., State House, Boston, plans bridge over Lees River, here. $25,000. W. F. Williams, comr.

New Jersey—Bd. Freeholders Burlington Co. (Mt. Holly), and Atlantic Co. (Mays Landing), plans bridge over Green Bank River. $40,000-$45,000. A. H. Nelson, Atlantic City, and H. B. Smith, Mt. Holly, engrs.

Ind., Vincennes — State Hy. Depts. of Indianapolis, Ind., and Springfield, Ill., plan bridge over Wabash River here. To exceed $2,000,000. C. Gray, Indianapolis, Ind., and T. F. Sheets, Springfield, Ill., highway engrs.

Ia., Ft. Dodge—City and Minneapolis & St. Louis R.R. Co., Transportation Bldg., Minneapolis, Minn., R. G. Kenly, ch. engr., making preliminary sketches and surveys rein.-con. viaduct over railroad tracks at 7th St. $50,000. C. E. Reynolds, City Hall, engr.

Kan., Stockton—Rooks Co. making preliminary plans bridge, main span 140 ft. steel 20 ft. wide with concrete floor and foundation, etc., and six 40 ft. concrete slab deck girder spans, on Federal Aid Project 259-B. J. A. Bodine, Court House, engr.

Missouri — Special Com., J. L. Jones, (interested) 710 Main St., Kansas City, plans 3 span, 1,275 ft. bridge between Kansas City and North Kansas City. $2,000,000. Business League, 400 Ridge Bldg., Kansas City, is most active in promotion of above project. Harrington, Howard & Ash, 1012 Baltimore St., Kansas City, engrs.

Missouri — State Hy. Dept., Jefferson City, making plans two 10 and two 20 ft. rein.-con. slab spans, etc., over stream, Audrain Co.; one 40 ft. rein.-con. deck girder span, etc., over Bonne Femme Creek and three 24 ft. rein.-con. slab spans over south fork of Bonne Femme Creek, one 40 ft. and three 30 ft. rein.-con. deck girder spans, etc., over Grindstone Creek, four 40 ft. rein.-con. deck girder spans, etc., over Hingston Creek, one 40 ft. rein.-con. deck girder span, etc., over Turkey Creek, one 40 ft. rein.-con. deck girder span, etc., over stream and one 45 ft. rein.-con. deck girder span over Silver Fork, all in Boone Co.; one 80 ft. steel truss span, etc., over Tobin Creek, and two 80 ft. steel truss spans over Middle South Fabius Creek, both in Scotland Co.; one 60 ft. steel truss span, etc., over Little Fabius Creek, two 12 ft. rein.-con. slab spans, etc., over Norwood Creek, and one 45 ft. rein.-con. deck girder span, etc., over Coon Creek, all in Knox Co.; two 12 ft. rein.-con. slab spans, etc., over stream, two 20 ft. rein.-con. slab spans, etc., over Sappington Branch, two 12 ft. rein.-con. slab spans, etc., over Birding Creek, two 10 ft. rein.-con. slab spans, etc., over Bailey Branch, two 12 ft. rein.-con. slab spans, etc., over Dry Fork Creek, and two 12 ft. rein.-con. slab spans, etc., over Long Branch Creek, all in Monteau Co.; one 120 ft. and two 80 ft. steel truss spans, etc., over Saline Creek, Miller Co.; two 12 ft. rein.-con. slab spans, etc., over stream and three 20 ft. rein.-con. slab spans, etc., over Little Beaver Creek, both in Phelps Co.; three 45 ft. rein.-con. deck girder spans, etc., over South River, Marion Co.; three 80 ft. open spandrel arch spans, etc., over Sinking Creek, Shannon Co.; one 55 ft. steel deck plate girder span, etc., over Chicago, Rock Island & Pacific R.R. tracks, Franklin Co.; five 80 ft. steel truss spans, etc., over East Fork Black River, Reynolds Co. B. H. Piepmeier, ch. engr.

Tex., Anson—See "Streets and Roads."

Okla., Okmulgee—Okmulgee Co. rejected bids 3 span 180 ft. steel, concrete and timber bridge. Will readvertise. $60,000. H. C. King, Okmulgee, engr.

Okla., Seiling—State Hy. Dept., Oklahoma City, plans 126 span 2,000 ft. pile bridge over Canadian River, Dewey Co., here. $60,000. J. M. Page, Capitol Bldg., Oklahoma City, highway engr.

Washington—State Hy. Comn., Olympia, made plans 580 ft. concrete arch bridge, over South Fork of Chehalis River, on State Rd. 12, Lewis Co.; also making plans 2,832 ft. steel truss bridge with concrete approaches over Puyallup River, on Pacific Highway, at Tacoma, approximately 2,464 ft. steel bridge over Columbia River, on State Rd. 7, at Vantage Ferry, and 712 ft. steel truss bridge and approaches, over Skokomish River, on State Rd. 14, Mason Co. J. W. Hoover, highway engr.

Calif., Manteca — South San Joaquin Irrigation Dist., Manteca, and Oakdale Irrigation Dist., Oakdale, each voted $1,100,000 bonds for Melones Dam project.

Calif., Santa Monica — Plans bridge on Colorado St. between 2nd and 3rd Sts. To exceed $25,000. H. B. Carter, city engr.

BIDS DESIRED

New Jersey — June 15, by State Hy. Dept., Trenton, double leaf trunnion bridge over Hackensack River, on State Hy. Route 1, Lincoln Highway between Kearney and Jersey City, Hudson Co. A. L. Grover, secy.; adv. E. N.-R. June 4.

New Jersey—June 22, by State Hy. Dept. Trenton, 2 bridges on Route 2, Sect. 8, one over Pompeston Creek, at M. P. 5.7, and one over Swedes Run, at M. P. 7.3. A. L. Grover, secy.; adv. E. N.-R. June 4.

N. J., Somerville—June 9, by Freeholders Somerset Co., constructing Country Club Bridge near Bedminster, 8 and 10 in. rein.-con. slab, 10 ft. span; also Township Farm Bridge, plate girder and rein.-con. slab, 35 ft. skew span, etc. H. V. Van Emburgh, engr.

Pa., Washington—June 8, by T. J. Underwood, controller Washington Co., East Cannonsburg Bridge, two 50 ft. spans, concrete, with 23 ft. roadway and two 6 ft. sidewalks, at Chartiers Creek 31, in Cannonsburg; also Swart Bridge, 64 ft. span rein.-con. arch, with 24 ft. roadway, at Ten Mile Creek Rd., on State Highway Route 325, 1 mi. south of Amity.

North Carolina — June 9 by State Hy. Comn., Raleigh, concrete bridges and culverts on Project 127, Edgecombe Co., $58,000; on Project 405, Chatham Co., $62,000; on Project 906-C, Buncombe Co., $25,000. C. M. Upham, highway engr.

Alabama—July 8, by State Hy. Dept., Montgomery, bridge on Thompsonville-Grove Hill Rd., State Project 21-B, Clarke Co., 155,655 lb. reinforcing, 33,500 lb. structural steel, 41,894 ft. treated timber, etc. W. S. Keller, highway engr.

O., Cincinnati—June 8, by Director Pub. Serv., remodeling 9 span, 900 ft. bridge, at 8th St. $62,712. F. Krug, City Hall, engr. Noted Apr. 16.

O., Dayton—June 5, by G. F. Baker, dir. Pub. Serv., bridge to have two 90 ft. half through steel girders encased in concrete, 42 ft. roadway, two 7 ft. walks, 2 concrete abutments and 1 pier over Wolf Creek, on Bway. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs. Noted Nov. 27.

Minnesota—June 16, by State Hy. Comn., 1246 University Ave., St. Paul, Bridge 4377 triple 80 ft. on State Rd. 5-38, Federal Aid Project 366, $25,000; Bridge 4432, 30 ft. over Willow River on State Rd. 1-44, Sect. 5, Federal Aid Project 1; Bridge 4412, double 80 ft. at Rutledge, and Bridge 4433 75 ft., at Hinckley, both on State Rd. 1-48, Federal Aid Project 1, $30,000.

Bridges (Continued)

Ark., Beaver—June 13, at office of C. A. Fuller, engr., Eureka Springs, three 115 ft. steel truss spans on rein.-con. piers with 195 ft. untreated pile timber approaches over White River, here, 170,800 lb. structural steel, 27,400 ft. untreated piling, 10,652 lb. reinforcing, etc., for Rd. Impvt. Dist. 5, Carroll Co., c/o M. W. Swope, secy.

Tex., Alpine—See "Streets and Roads."

Tex., Gatesville—See "Streets and Roads."

Tex., Palestine — See "Streets and Roads."

Tex., Waco—McLennan Co. taking bids 150 ft. steel span, riveted Pratt truss bridge with two 60 ft. steel truss and 270 ft. wooden approaches, etc. across Bosque River at Eichelbergers Crossing. $30,000. M. Hannah, Waco, engr. Noted May 21.

California—June 22, by State Hy. Comn., Forum Bldg., Sacramento, three 24 ft. span rein.-con. girder bridge, 24 ft. across High Creek Bridge Creek; 94 ft. rein.-con. box culvert, 5 x 5 ft. opening with wing walls, at Fall Creek; 45 ft. rein.-con. culvert, 5 x 5 ft. opening with wall and wing walls, at Cleveland Dam Creek, in Santa Cruz Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Pismo (Pismo Beach P. O.)—June 15, by State Hy. Comn., Sacramento, 2 rein.-con. bridges, 24 ft. one over Villa Creek, here, and other over Southern Pacific R.R. tracks near here. R. M. Morton, Forum Bldg., Sacramento, highway engr. Noted Dec. 25.

BIDS RECEIVED

Massachusetts—See "Streets and Roads."

Mass., Marshfield—Comrs. Plymouth Co., at office Fay, Spofford & Thorndike, engrs., 200 Devonshire St., Boston, rein.-con. bridge with regulating equipment for the Waterway in Green Harbor Dike, from Engineering Serv. & Constr. Co., 200 Devonshire St., Boston, $24,750. Noted May 14.

Conn., New Haven—E. S. Nettleton, city engr., City Hall, 3 span 217 ft. steel girder bridge over Mill River, at Willow St., from C. W. Blakeslee, 58 Waverly St., $81,249. Engrs. est. $90,000. Noted May 14.

New Jersey—State Hy. Dept., Trenton, rein.-con. slab bridge over Fishing Creek, Route 15, Sect. 8, Cape May Co.; and concrete encased steel bridge over West Creek, Route 15, Coumberland Co., from Pinto & Felice, 158 Washington St., Trenton, $40,-973. Noted May 14.

Calif., Los Angeles—Bd. Pub. Wks., 24 span 1,274 ft. bridge over Los Angeles River, at Macy St., from Atkinson-Spicer Co., Chapman Bldg., Los Angeles, $324,825. Noted Apr. 30.

Calif., Los Angeles — City, 60 ft. span rein.-con. bridge with two 40 ft. approach spans, over Arroyo Seco, on Avenue 60, from B. Crossland, 604 South Marguerita Ave., Alhambra, $83,405.

CONTRACTS AWARDED

Massachusetts—See "Streets and Roads."

S. C., Lancaster—Lancaster Co., 16 rein.-con. bridges and 8 concrete culverts, 693,-590 lb. reinforcing, etc., to Small & Triplett, Morristown, Tenn., $116,000.

Alabama—State Hy. Dept., Montgomery, bridges on Limestone Rd. from Athens to Federal Aid Project 49, State Project S-19, Limeston Co., and on road from Federal Aid Project 39 to Marshall Co. line, State Project S-15, Madison Co., to B. Williams, Murphreysboro, Tenn., $32,993 and $79,410 respectively; bridge over Choctawhatchie River, State Project 83, Dale Co., will be built by day labor. W. S. Keeler, highway engr.

Alabama—State Hy. Comn., Montgomery, concrete bridge over Paint Rock River and other small bridges on Cobbs Bridge-Paint Rock River Rd., Madison Co., to B. Williams, Murfreesboro, $79,410, on Ft. Payne-Valley Head Rd., De Kalb Co., to A. H. Singer, Montgomery $17,178. Noted Apr. 9 under "Streets and Roads."

Kentucky — State Hy. Dept., Frankfort, superstructure and substructure bridge on Federal Aid Project 119-B, Crittenden Co., to J. U. Schickli & Bros., Louisville, $29,-956; structural steel bridge on Federal Aid Project 113-B, Warren Co., to Vincennes Bridge Co., Vincennes, Ind., $8,356, substructure for same bridge, to Moore Constr. Co., Hopkinsville, $25,799; steel superstructure on State Aid Project 4-BBL, Perry Co., to Oregon Bridge Co., Lebanon, O., $23,540, concrete substructure for same bridge, and concrete substructure for bridge on Federal Aid Project 128-C, Perry Co., to F. W. Graham Co., Pineville, $18,711 and $34,579 respectively; concrete substructure and concrete superstructure on State Aid Project 4-BB-2, Perry Co., to Kelly & Shields, Hazard, $22,450 and $26,498 respectively; steel superstructure on Federal Aid Project 128-C, Perry Co., to St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo., $25,271; steel superstructure and concrete substructure on Federal Aid Project 128-B, Perry Co., to Atlantic Bridge Co., Roanoke, Va., $15,961 and $19,478 respectively. Grand total $249,709.

Wis., Stevens Point—State Hy. Comn., at City Hall, constructing Clark St. bridge, Incl. two 66 ft., two 68 ft., two 72 ft. and one 78 ft. concrete arch spans, etc., to Stein Constr. Co., 425 East Water St., Milwaukee, $144,700. Noted Apr. 23.

Indiana—State Hy. Comn., Indianapolis, **(S. R. means State Road s. t. steel truss, r. c. g. rein.-con. girder, r. c. a. rein.-con. arch, r. c. s. rein.-con. slab, r. c. b. rein.-con. box, e. e. engrs. est.)** to Elkhart Bridge & Iron Co., Elkhart, 1 s. t. on S. R. 2-G and 1 r. c. g. on S. R. 2-H, Kosciusko Co., $14,-190 e. e. $14,220, 3 s. t. on S. R. 25-A2, Elkhart Co., also 1 r. c. g. on S. R. 25-G, St. Joseph Co., $30,392 e. e. $31,429; to J. W. Dougherty & Sons, Farmersburg, 1 r. c. a. on S. T. 10-L and 1 r. c. g. on S. R. 10-M, Parke Co., $15,972 e. e. $19,686; to Steel Bros. & Co., Sullivan, 2 r. c. a. and 1 r. c. g. on S. R. 10-M, Parke Co., $38,886 e. e. $47,199; to W. H. Grammer & Son, Evansville, 4 r. c. g. on S. T. 10-N, $38,818 e. e. $45,265, 1 r. c. g. and 1 s. t. on S. R. 6-L, Clinton Co, also 1 r. c. g. and 1 r. c. a. on S. T. 6-M, Tippecanoe Co., $26,861 e. e. $31,541, 1 r. c. s. on S. R. 32-H, Montgomery Co., 1 r. c. g. and 1 s. t. on S. R. 32-I and 1 r. c. s. on S. R. 29-D, Tippecanoe Co., $19,063 e. e. $21,433; to Calvert & Schutt, Sheridan, 2 r. c. a. and 2 s. t. on S. R. 6-K, Boone Co., $38,336 e. e. $48,104; to Ellis & Scamahorn, Rockport, 1 r. c. a. on S. R. 47-B, Spencer Co., $16,720, e. e. $20,509; to H. C. Weber, Kentland, 3 r. c. s. on S. R. 7-A, Newton Co., $7,149, e. e. $10,-802; to Yost Bros., Decatur, 1 r. c. g., 2 r. c. s., and 1 s. t. on S. R. 21-K, Adams Co., $15,166, e. e. $17,351; to Vincennes Bridge Co., Vincennes, 1 s. t. on S. R. 28-C, Daviess-Pike Counties, $129,805, e. e. $160,-345; to Burk Constr. Co., New Castle, 1 s. t. on S. R. 10-L, Parke Co., $51,913, e. e. $63,-765; to R. McCalman, Inc., Danville, 1 r. c. a., on S. R. 1-M, Parke Co., $44,939, e. e. $60,333; to C. I. and G. Walter, Lanesville, 1 r. c. a. on S. R. 1-A, Floyd-Clark Co., $48,663 e. e. $63,661; to J. A. Mullendore, Columbia City, 1 r. c. g. on S. R. 17-E, De Kalb Co., $2,937, e. e. $4,149; to McDonald & McKinley, Indianapolis, grading and culverts 2.9 mi. S. R. 17-E, De Kalb Co., $13,715 e. e. $18,928, to H. Meshberger, Linn Grove, 0.98 mi. S. R. 21-K, Adams Co., $1,556 e. e. $2,878; to O. E. Nichols, Hebron, 1 temporary timber trestle on S. R. 43-A, Porter Co., $17,223 e. e. $10,185; to Henley Constr. Co., Madison 1 r. c. a., 1 s. t. and 1 r. c. g. on S. R. 6-K, Boone Co., $36,375 e. e. $39,809, new pier and paint on 1 s. t. on S. R. 1-S, Miami Co., also 1 r. c. s. on S. R. 7-I, and on 1 r. c. s. on S. R. 7-I, Wabash Co., $12,720 e. e. $17,593, 1 r. c. a. and 2 r. c. g. on S. R. 26-H, Jefferson Co., $12,482, e. e. $14,492, wood block floor and repairing s. t. on S. R. 6-F, Shelby Co., $3,485, e. e. $5,576; approach grading on structures 205-6 and 7 on S. R. 40-A, Jefferson Co., $17,541, e. e. $35,879; to D. H. Fatout, Indianapolis, grading and culverts on 64 mi. S. T. 28-C, Daviess Co., 8,371 e. e. $13,217. Grand total $663,233. Noted Apr. 9.

Ia., Chariton—Lucas Co., 1 I-beam bridge and 7 box culverts, to J. Ritzinger, Sigourney, $13,422; 11 box culverts, to Knutson Bros., Chariton, $15,663.

North Dakota—See "Streets and Roads."

Missouri—State Hy. Dept., Jefferson City, to Wilson Constr. Co., Warrensburg, two 10 ft. rein.-con. slab spans, etc., over Wild Cat Creek, Iron Co., $1,821; to Quinlan & Kerns Constr. Co., Kansas City, one 25 ft. rein.-con. deck girder span, etc., over stream, Henry Co., $2,167; to J. G. Nevels & Masoner, Willow Springs, three 30 ft. rein.-con. deck girder spans, etc., over Jamup Creek, Shannon Co., $4,867; to Griffin & Harlin, Gainesville, three 30 ft. rein.-con. deck girder spans, etc., over Honey Creek, Douglas Co., $5,149; to Humphreys & Stebbens, Fredericktown, three 40 ft. rein.-con. deck girder spans, etc., over Turkey Creek, Madison Co., $7,554; to Western Bridge Co., Harrisonville, three 130 ft. rein.-con. arch spans, etc., over Elk River, McDonald Co., $45,478; to Beard & Crews, Warrenton, one 70 ft. steel truss and seven 40 ft. rein.-con. deck girder spans, etc., over Big Gravois Creek, Morgan Co., $19,548; to J. P. Harlan, West Plains, three 16 ft. rein.-con. slab spans, etc., over South Fork, $3,874, three 20 ft. rein.-con. slab spans, etc., on road from West Plains, west, $4,394, both in Howell Co.; to Nevada Constr. Co., Nevada, one 60 ft. steel truss span, etc., over Little Dry Wood Creek, $13,554, one 80 ft. steel truss span, etc., over Old Channel Little Dry Creek, $14,342, both in Vernon Co.; to R. P. Harper Constr. Co., Leona, Kan., six 40 ft. rein.-con. deck girder spans, etc., over Douglas Branch, $20,151, one 140 ft. steel truss span, etc., over Monnaton River, $35,219, both in Vernon Co.; one 100 ft. steel truss span, etc., over Little Weambleau Creek, Hickory Co., $12,180; to C. T. Fogle Constr. Co., Jefferson City, three 80 ft. rein.-con. arch spans, etc., over Bull Creek, $21,022, three 70 ft. steel truss spans, etc., over Bear Creek, $19,702, both in Taney Co.; to Phillips & Rigsby, Waynesville, repairing bridge over Big Piney River, Texas Co., $4,075. Grand total $193,997.

Colorado—See "Streets and Roads."

Calif., Ventura—State Hy. Comn., Sacramento, one 30 ft. span and three 60 ft. spans, rein.-con. girder bridge, over Ventura River, near here, to O. Parlier, Tulare, $19,998. Noted Apr. 23 under "California."

Railways

CONTRACTS AWARDED

Pennsylvania—Pennsylvania R.R., Broad St. Sta., Phila., A. C. Shand, ch. engr., grading and masonry work on Sect. 4 of Canton, Ohio, to Bayard cut-off, to Ferguson & Edmundson, Keystone Bldg., Pittsburgh. Engrs. est. $325,000. Former contract rescinded. Noted Apr. 9 under "Ohio."

Pennsylvania and Ohio — Pennsylvania R.R. Co., Broad St. Sta., Phila., widening Tunnel 4 at Dinsmore, Pa., and Tunnel 5 at Gould, O., on Pittsburgh, Cincinnati, Chicago & St. Louis Div., to J. F. Casey Co., Aspinwall, Pa.

Kansas—Chicago, Rock Island & Pacific R.R. Co., La Salle St. Sta., Chicago, grading for 19 mi. second main line track between Latimer and Dwight, here, to Flick Constr. Co., 133 West Washington St., Chicago, Ill.

Tex., Lubbock — Atchison, Topeka & Santa Fe R.R. Co., Railway Exch., Chicago, grading and laying 70 mi. track west from here to R. and P. Switch Track Constr. Co., Keystone Bldg., Houston, approximately $800,000.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Mass., New Bedford—E. and G. R. Wood, plans filling and dredging in Acushnet River. $25,000. Private plans.

BIDS DESIRED

La., Shreveport — June 10, by Comrs. Caddo Levee Dist., 120,000 cu.yd. excav. and clearing 109.5 acres in Swift Bayou sub-lateral; 150,000 cu.yd. excav. and clearing 118 acres in Simpson Lake lateral; 222,000 cu.yd. excav. and clearing 156 acres in Cottonwood Bayou to Myricks Bayou lateral, etc., Caddo Parish. State Engineers, New Court House, New Orleans, engrs.

Minn., Fairmont — June 10, by W. M. Canfield, aud. Martin Co., approximately 25,541 ft. 6- to 28-in. tile in Judicial Ditch 111. $18,224. E. A. Siemen, Fairmont, engr. Noted Jan. 15.

Ia., Webster City — June 11, by L. L. Doolittle, aud. Hamilton Co., constructing Vandie Mattice Dist. 247, Sect. 1, 8,136 lin. ft. 6- to 22-in. tile drains in main ditch, 14,568 lin.ft. 6- to 12-in. tile in branches, Sect. 3, 46,000 ft. 6 in. tile in Mattice branches. $36,000.

CONTRACTS AWARDED

Ia., Newton—Jasper Co., 900,000 cu.yd. excav. in D. D. 17, Sect. 1, to Mulgrew & Sons, Dubuque, at $0.06 per cu.yd.; in Sect. 2, to Mathews Bros., Erie, Ill., at $0.0648. Noted May 7.

Neb., Columbus—Oconee D. D., approximately 122,388 cu.yd. excav. in Lost Creek, to Martin-Day Co., Lincoln, at $0.084 per cu.yd. Noted Apr. 30.

Ark., Osceola—Sub Dist. 1 D. D., Mississippi Co. 6.8 mi. new ditches, 6 to 10 ft. bottoms, 211,200 cu.yd. excav. for drag line, etc., to F. C. Morgan, 709 Lemcke Bldg., Indianapolis, Ind., at $0.0937 per cu.yd., total $19,700. Noted May 14.

Ontario—F. Ritchie, clk. West Gwillimbury Twp., Gilford, constructing Holland River Marsh Drainage system, in West Gwillimbury and King Twns., and village of Bradford, to Chatham Bridge & Dredging Co., Merchants Bank Bldg., Chatham. Engrs. est. $150,000. Noted Mar. 26.

Streets and Roads

PROPOSED WORK

Maine — State Hy. Comn., State House, Augusta, plans improving 8 mi. highway in Lewiston, Green and Leeds, 4 mi. highway in Newport, Palmyra, Detroit and

Streets and Roads (Continued)

Pittsfield, and 4 mi. highway in Rockland and Thomaston, $798,698; also 3.77 mi. highway from York Center to Cape Neddick, 1.4 mi. highway from Rices Corner to York Corner, 1.9 mi. Kennebec Turnpike, 8 mi. Biddeford Underpass, and 2.87 mi. highway in Windham and Raymond, $602,798.

Mass., Needham — Bd. Selectmen plans relocating and widening Great Plain Ave. from Nehoiden St. to Town Line at Pickering St. To exceed $25,000. Engineer not selected.

Rhode Island—State Bd. Pub. Wks., State House, Providence, plans constructing Market St. from Main St. to Massachusetts State Line, in Warren. To exceed $25,000.

R. I., East Providence (Providence P. O.) —Town Council plans reconstructing and improving of 5th, James and Purchase Sts. $25,000. C. McCann, supt. Dept. Highways.

R. I., Providence — City, W. F. Slade, chn. Dept. Pub. Wks., plans constructing Rosebank Ave., 6th and Berlin Sts., as highways, $25,000; also voted $200,000 bonds repaving various streets.

R. I., West Warwick — Bd. Selectmen plans reconstructing highways and bridges. $35,000 appropriated.

W. Va., Pineville — Wyoming Co. voted $325,000 bonds, road work in Slab Dist. I. E. Basham, Pineville, engr.

W. Va., Ripley — Jackson Co. election June 16, $90,000 bonds, for roads in Washington Dist. M. M. Parsons, Ripley, engr. Noted May 7.

Fla., Dade City—Pasco Co. soon takes bids improving about 100 mi. various highways. $1,330,000 bonds voted. F. D. Cosner, Dade City, engr.

Fla., Fernandina — Nassau Co., making preliminary surveys determining bond issue which will be called soon improving various roads. N. A. Hotard, New Smyrna, engr.

Miss., Blue Mountain—Tippah Co. election June 9, $75,000 bonds, hardsurfacing various roads.

Miss., Greenville—Washington Co. voted $150,000 bonds improving various roads.

Miss., Ripley—Tippah Co. defeated $225,000 bonds, hardsurfacing road through county. Noted Apr. 30.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 35 mi. Clarksville-Waverly Rd., Montgomery and Humphreys Counties, and 5 mi. Wartburg-Sunbright Rd., Morgan Co. J. G. Creveling, highway comr.

Tenn., Knoxville—Plans oil surfacing 25 or 30 mi. various streets. A. Harris, City Hall, dir. Pub. Wks.

Tenn., St. Elmo—Election soon $60,000 bonds paving, curbing, guttering and sewers in various streets. Address City Commissioners.

O., Canton—Stark Co. soon takes bids brick on concrete paving 1 mi. Canton-Louisville Rd., $25,000; and 0.75 mi. Canton-Massillon Rd., $35,200, both 16 ft. A. M. Wise, Court House, engr.

O., Cincinnati—Plans grading, curbing, sidewalk and paving 3,195 ft. Mitchell Ave., 200 sq.yd. granite block, 2,100 cu.yd. concrete, etc., $116,510; sidewalks and paving 585 ft. Sycamore St., 2,660 sq.yd. granite block, and 540 cu.yd. concrete. $35,086. F. Krug, City Hall, engr.

O., Lisbon—Columbiana Co. soon takes bids improving 1 mi. Shadyside Ave., $25,000; and 1 mi. Camp Ground Rd., $25,000, both 16 ft. wide. L. C. Kirk, Lisbon, engr.

O., Marysville — Union Co. soon takes bids improving 4.5 mi. Marysville-Bellefontaine Rd., 16 ft., $144,624; and macadam on concrete paving 4.4 mi. same road, 16 ft., $131,547.

O., Warren — Trumbull Co. takes bids this year resurfacing Cleveland-East Liverpool Rd., $100,000; Youngstown-New Bedford Rd., $25,000; and Canfield-Columbiana Rd., $25,000.

O., Warren—Plans widening and asphalt paving East Market St. $150,000.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids concrete paving 3.56 mi. Route 8, Sect. 40, Knox Co., and 8.6 mi. Route 41, Sect. 14, Knox Co. F. T. Sheets, ch. engr. Noted Dec. 4.

Ill., East St. Louis—Making preliminary plans grading, curbing and rein.-con. surfacing State St. $25,000. W. McK. Brown, City Hall, engr.

Ill., La Grange Park (La Grange P. O.) —Making preliminary plans grading, curbing, sewers and rein.-con. surfacing 10,260 sq.yd. various streets, etc. in Special Assessment Dist. 26. $52,392.

Ill., Villa Grove — Making plans paving various streets. $50,000. Holbrook, Warren & Van Praag, 416 Millikin Bldg., Decatur, engrs.

Ia., Iowa City—Plans paving 14 blocks various streets. $55,000. G. J. Dohrer, city clk.

Ia., Ottumwa — Plans paving, etc., 10 blocks various streets. $40,000. H. H. Cook, city engr.

Minn., Cannon Falls — Making plans curbing, guttering, paving, etc., approximately 11,000 sq.yd. Main St. $25,000. L. P. Wolff, 903 Globe Bldg., St. Paul, engr.

N. D., Grand Forks—Plans paving 15 blocks various streets. $60,000. C. J. Evanson, city aud.

N. D., Lakota—Nelson Co. plans graveling about 22 mi. Trail 12 from Lakota south to Pekin, $30,000; and about 8 mi. Highway 8, west Ramsey Co. line, $11,000. P. Jorgenson, co. aud.

Missouri — State Hy. Dept., Jefferson City, plans grading 46.074 mi. various roads in Andrew, Jefferson, Marion, Mercer and Scott Counties; 30 ft. grading 43.7 mi. roads in Boone, Miller, Phelps and Reynolds Counties; 16 ft. gravel surfacing 25.835 mi. roads in Knox, Lewis and Scotland Counties; 18 ft. gravel surfacing 9 mi. roads in Audrain Co.; 20 ft. gravel surfacing 19.684 mi. roads in Howell and Moniteau Counties; 9 ft. concrete paving 11.987 mi. roads in Grundy and Mercer Counties; 18 ft. concrete surfacing 34.177 mi. roads in Andrew, Buchanan, Cape Girardeau, Jefferson, Marion and Scott Counties. B. H. Piepmeier, ch. engr.

Tex., Anson—F. E. Devlin Eng. Co., Anson, and Bitting Bldg., Wichita, Kan., postponed bids which were to have been opened June 5, grading, bridging, etc., 15.73 mi. State Aid Project 598 A, $160,000; and 15.97 mi. State Aid Project 598 B, $150,000, for Jones Co. Will readvertise. Noted May 21.

Tex., Anson—Jones Co. soon takes bids grading, bridging, etc., 15.27 mi. State Highway 18, 26 ft. $73,000. J. W. Puckett, Stamford, co. engr.

Tex., Big Springs — Making preliminary plans paving various streets. $60,000 or more. Montgomery & Ward, Wichita Falls, engrs.

Tex., Breckenridge — Stephens Co. plans hardsurfacing 15 mi. Breckenridge-Throckmorton Rd., 18 ft. $300,000. $150,000. Address County Judge.

Tex., Brownfield—Terry Co. election June 20, $200,000 bonds for road work. H. R. Winston, Brownsfield, co. judge.

Tex., Childress — Voted $65,000 bonds, paving and hard-surfacing various streets. R. G. Carraway, engr. Noted Apr. 16.

Tex., Corsicana — Navarro Co. election June 16, $7,000,000 bonds hardsurfacing various roads. W. W. McClendon, Corsicana, engr. Noted May 7.

Tex., Galveston—Voted $150,000 bonds, paving various streets. C. A. Holt, Jr., city engr. Noted May 7.

Tex., Galveston—Galveston Co. election June 20, $500,000 bonds for road work. E. B. Holman, Galveston, co. judge.

Tex., Harlingen—Election soon $100,000 bonds, paving various streets. Address Mayor.

Tex., Port Arthur—City takes bids after June 8, asphalt, rock asphalt or brick surfacing approximately 90,000 sq.yd. various streets. $290,000. Nagle, Witt & Rollins, Court House, Dallas, and Houston, engrs.

Tex., Vernon — Made plans paving 2 blocks Fannin St., and 8 blocks South Main St. $25,000. J. B. Nabors, Vernon, engr. Noted Apr. 16.

Tex., Waco — Defeated $250,000 bonds for street improvements. V. G. Koch, city engr. Noted Apr. 9.

Tex., Wortham—Making plans brick or concrete paving various streets. $100,000 or more. J. E. Johnson, Teague, engr. Noted May 7.

Okla., Durant—Plans grading, curbing and concrete surfacing 14,700 sq.yd. Pecan and Chestnut Sts. $43,000. L. V. Stinson, Durant, engr.

Okla., El Reno—Plans grading, curbing and concrete surfacing 21,120 sq.yd. Choctaw Ave., $42,000. Peckham & James, 227 West Grand St., Oklahoma City, engrs.

Okla., Mangum—Plans grading, curbing and concrete surfacing 14,100 sq.yd. Greer, Jackson and James Sts. $42,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Wash., Seattle—Bd. Pub. Wks., takes bids about June 19, grading Letitia Ave. et al, Rainier Valley Dist. $87,000. J. D. Blackwell, Seattle, engr.

Wash., Walla Walla—Making plans and takes bids about June 18, constructing 6 mi. Harvey Shaw Rd. L. O. Kennery, Walla Walla, engr.

California—State Hy. Comn., Sacramento, making plans grading uncompleted portions of Truckee River Highway, in Nevada Co. To exceed $25,000. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Claremont—Making plans 7 in. asphalt paving various streets. To exceed $25,000. O. A. Gierlich, 1st Natl. Bank Bldg., Monrovia, engr.

Calif., El Monte — Making plans 2 in. bituminous on 7 in. concrete repaving Main St., etc. To exceed $25,000. O. A. Gierlich, First Natl. Bank Bldg., Monrovia, engr.

Calif., Fairfield — Solano Co. making plans grading, paving, etc., 6.22 mi. highway from Vacaville up the valley, consisting of 4.4 mi. 4 in. asphaltic concrete paving, 16 ft. wide, 1 mi. 2 in. asphaltic concrete surfacing, and 0.82 mi. 5 in. asphaltic concrete paving, 16 ft. wide; also grading and graveling highway from this Corners to Oakdale School Dists. north. F. E. Steiger, Fairfield, co. surv.

Calif., Los Angeles—Plans improving 10 mi. road from Wilshire to Ventura Blvds. along projected line of Sepulveda Road, incl. tunnel, 42 ft. wide, 28 ft. high, 700,000 cu.yd. earth or stone. Engineer not selected.

Calif., Los Angeles—Plans grading, paving, sidewalk, etc., on Oakglen Pl., Fellowship Park, Leslie Way, Rosewood and Bronson Aves., Effie and Clermont Sts. H. A. Van Norman, city engr.

Calif., Marysville—Yuba Co. plans election $800,000 or more bonds, for road construction.

Calif., Riverside — Making plans 6 in. paving, curbing, guttering, etc. Market St. To exceed $25,000. L. Nafzgar, city engr.

Calif., San Diego — Common Council, plans improving National Ave. between 31st and 41st Sts., 2,162 cu.yds. excav., 1,028 cu.yds. embankment, 25,763 sq.ft. gutter surfacing with 1½ in. asphaltic concrete, 310,514 sq.ft. paving with 1½ in. asphaltic concrete on 5 in. concrete, 6,755 sq.ft. concrete sidewalks, 1,391 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr.

Calif., Santa Monica — Making plans resurfacing with permanent surface unimproved alleys throughout city. To exceed $25,000. H. B. Carter, city engr.

Calif., Stockton—Making plans paving, grading, curbing, etc., Pacific Ave. between Harding Way and city limits. To exceed $25,000. W. B. Hogan, city engr.

Ontario—Northern Development Branch Dept. Provincial Highways, Parliament Bldg., Toronto, soon takes bids graveling 40 mi. trunk road from North Bay to Cobalt. $500,000. C. H. Fullerton, ch. engr.

Ont., Amherstburg—Essex Co. plans concrete paving 45,000 sq.yd. Front Rd. $130,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Durham — Plans concrete paving Bruce and Lambton Sts. $40,000. W. B. Vollett, town engr.

Ont., Hamilton — Plans asphalt paving Robert St. $14,810, and Markland St. $21,310. W. L. McFaul, city engr.

Ont., Kingsville—Essex Co. plans concrete paving 18,000 sq.yd. Davison Rd. $45,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Neustadt — Plans concrete paving Main St. $30,000. F. W. Thorold, Queens Hotel, engr.

Ont., Simcoe—Plans cement paving various streets. $50,000. G. Marston, city engr.

Ont., Whitby—Ontario Co. plans grading, graveling, etc. various roads. $69,000. D. J. Kean, County Bldg., engr.

BIDS DESIRED

New York — June 26, by R. K. Fuller, comr. Canals & Waterways, Albany, constructing pavements and completing approaches of bridge across Mohawk River, between Schenectady and Scotia; adv. E. N.-R. June 4.

N. Y., Brooklyn—June 10, by J. A. Guider, boro pres., Boro Hall, paving 76th St., Bay Ridge, New York, and Liberty Aves.; curbing, paving, etc. Bedford Ave., Colonial Rd., Ave. O, Elmore Pl., East 26th and 65th Sts.; repaving Fleet St., Rugby Rd., Bedford and Liberty Aves.; resurfacing East 26th St.; and sewers in East 23rd and 26th Sts.

N. Y., Hudson—June 16, by Comn. Pub. Wks., grading and concrete paving various streets. M. J. O'Hara, supt.; adv. E. N.-R. June 4.

N. Y., Long Island City — June 8, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, regrading, curbing, paving, etc. Woodhaven and Jamaica Bay Blvds.

N. Y., New York—June 8, by J. E. Bowe, comr. Purchase, Municipal Bldg., asphalt on various streets, for Dept. Water Supply, Gas & Electricity.

N. Y., New York—June 11, by J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block repaving West, Marginal and Attorney Sts.; sheet asphalt paving Mangin St.

New Jersey — June 9, by Freeholders Mercer Co., Trenton, 5,300 lin.ft. 8 in. double line concrete paving Zenker Rd., Trenton Junction, $63,000; and 2,250 ft. Parkway Ave., Trenton, $13,000. H. F. Harris, Court House, Trenton, engr.

New Jersey—June 15, by Bd. Freeholders Hunterdon Co., at office State Hy. Dept., Trenton, rein.-con. paving 51,915 sq.yd.

Streets and Roads (Continued)

Ringoes-Flemington Rd. F. J. Dineen, clk.; adv. E. N.-R. June 4.

New Jersey — June 15, by State Hy. Dept., Trenton, grading, etc., State Highway Routes 2, 3 and 6, in City of Camden, Boro of Collingswood and Twp. of Pennsauken. A. L. Grover, secy.; adv. E. N.-R. June 4.

New Jersey — June 22, by State Hy. Dept., Trenton, reconstructing Route 2, Sect. 8, Burlington Co., and constructing Route 4, Sect. 31, Burlington and Ocean Counties. A. L. Grover, secy.; adv. E. N.-R. June 4.

N. J., Belvidere—June 17, by Bd. Freeholders Warren Co., rein.-con. paving 32,842 sq.yd. Phillipsburg-Belvidere Rd., Sect. 2. M. S. Faust, clk.; adv. E. N.-R. June 4.

N. J., Norwood—June 10, by Mayor and Council, grading, macadamizing and improving Summit St. and Blanche Ave. W. G. Clark, 9 Hillside Ave. Tenafly, boro engr.; adv. E. N.-R. June 4.

Pennsylvania — June 9, by State Hy. Dept., Harrisburg, rein.-con. paving 118,343 ft. 11 projects, in Allegheny, Armstrong, Beaver, Blair, Clearfield, Forest, Mifflin, Westmoreland and Washington Counties; vitr. brick on 5 in. broken stone and 3 in. penetration macadam paving, 375 ft., 1 project Carbon Co.; rein.-con. on Hillside vitr. brick paving 9,982 ft. 1 project in Susquehanna Co. P. D. Wright, secy. highways. Noted May 14.

Pa., Cheswick—June 16, by D. C. Marks, secy. Boro Council, grading, curbing, guttering and concrete sidewalks on 47,000 sq. ft. Maple and Oak Sts., Highland, Allegheny, South Highland and MacLean Aves. Douglas & McKnight, 912 Columbia Bldg., Pittsburgh, engr.

Pa., Mt. Oliver—June 5, by Boro Council, grading, curbing and paving Moye Pl. from Sherman to Walnut Sts. $25,000. T. J. McGovern, Boro Hall, engr.

Pa., Washington—June 8, by T. J. Underwood, controller Washington Co., improving 7,650 ft. Hickory-Venice Rd., 3,155 ft. Blainesburgh Rd., and 8,422 ft. Beallsville-Zollarsville 3.

Ga., Cartersville—June 12, by Bd. Aldermen, at office H. C. Nelson, mayor, vitr. brick, concrete, sheet asphalt, asphaltic concrete, or Finley sheet asphalt, etc. surfacing 17,165 sq.yd. various streets. Thomas, 208 Wynne-Claughton Bldg., Atlanta, engr.

Fla., Deland — July 1, by Bd. Bond Trustees, City Hall, for water works, sanitary and storm sewers, and street improvements. J. B. McCrary Eng. Corp., Atlanta, Ga., engrs.; adv. E. N.-R. June 4. Noted Dec. 18 under "Streets and Roads."

Alabama — July 8, by State Hy. Dept., Montgomery, improving 16.27 Thomasville-Grove Hill Rd., State Project 21-B, Clarke Co., 77.55 acres clearing and grubbing, 38,920 cu.yd. rock and 324,280 cu. earth excav., 134,694 lb. reinforcing, etc.; 1.17 mi. Brewton-Andalusia Rd., State Project 33-B, Escambia Co., 1 acre clearing and grubbing, 4,369 cu.yd. excav., etc.; 22.2 mi. Opelika-Lafayette Rd., State Project 9, Lee and Chambers Counties, 12.25 acres clearing and grubbing, 5,862 cu.yd. rock and 148,290 cu.yd. earth excav., 37,700 lb. reinforcing, etc. W. S. Keller, highway engr.

Miss., Hattiesburg — June 6, by Secretary Forrest Co., grading and Warrenite surfacing 137,425 sq.yd. roads in Dist. 1. Former contract rescinded. Noted Apr. 9.

Louisiana—June 18, by State Hy. Comn., Reymond Bldg., Baton Rouge, graveling 4.96 mi. State Project 478, Oak Grove-Port Vincent Highway, Ascension Parish. W. B. Robert, state engr.

Tenn., Dickson—June 15, by City Council, 1½ in. rock asphalt on two course limestone surfacing 5,600 sq.yd. Main St. H. T. Miller, mayor.

Tenn., Jackson—June 11, by C. E. Griffin, comr. Pub. Utilities, improving various streets, 43,000 sq.yd. surfacing, 27,000 lin.-ft. curb and gutter, 1,100 ft. storm sewers, etc. E. R. Dike, city engr.

Ky., Henderson — June 11, by commissioner Pub. Wks., grading, paving, etc. 2nd street from Water to Ingram Sts. C. F. Hall, mayor.

O., Akron—June 15, by W. F. Peters, dir. Pub. Serv., grading, curbing, and vitr. brick paving, etc., 6,000 sq.yd. Dayton St. $41,500, 3,600 sq.yd. Bloomfield Ave. $25,000; grading, curbing, laying sidewalks and vitr. brick paving, etc., 3,670 sq.yd. Mallison Ave. $33,400, 1,340 sq.yd. Mapledale Ave. $12,400, 10,500 sq.yd. Ackley St. et al. $10,600, 1,320 sq.yd. Marion Pl. $10,900, and 1,215 sq.yd. Moffatt Pl. et al. $6,700; resurfacing old brick paving and vitr. brick guttering 3,030 sq.yd. Cuyahoga Falls Ave., $81,200. E. A. Kemmler, Delaware Bldg., engr. Noted May 21.

O., Cincinnati—June 5, by Comrs. Hamilton Co., improving 9,510 ft. Brower Rd., 41,300 gal. tar, Grade 1, 2,000 cu.yd. grading, 165,000 sq.yd. 10 in. waterbound macadam, etc., $30,467; 7,867 ft. Enyart Rd., 35,500 gal. tar, Grade 1, 2,000 cu.yd. grading, 14,200 sq.yd. 10 in. waterbound macadam, $26,723; 16,900 ft. Given Rd., 78,000 gal. tar, Grade 1, 5,000 cu.yd. grading, 31,200 sq.yd. 4 in. waterbound macadam on 6 in. base, $57,787; 6,400 ft. Rapid Rd. Pk., 30,000 gal. tar, Grade 1 5,000 cu.yd. grading, 12,000 sq.yd. bituminous macadam, etc., $27,944. E. A. Gast, Court House, engr. Noted Apr. 16 and May 21.

O., Columbus—June 9, by W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and paving with (a) asphalt (b) brick or (c) concrete 2,234 ft. alleys west Neil and Harrison Aves., 6th and 17th Sts., and second alley north Oak St., also Pearl and Cherry Sts., 20 ft. (b) $18,369 (c) $16,126; 4,467 ft. Swain St., Jason, Nashoba, Linden and Myrtle Aves., 24 ft., (a) $71,973 (b) $94,719 (c) $5,937; 468 ft. Pearl St. and alley north Patterson Ave., 15 ft. (b) $2,901 (c) $2,586; 664 ft. Carey Ave., 15 and 20 ft. (b) $5,448 (c) $4,906; 447 ft. Belnkner St., 21 ft. (b) $5,803 (c) $3,936; 3,052 ft. Kelton Ave., 30 ft. (a) $44,224 (b) $56,529; 600 ft. 6th St., 26 ft. (a) $9,438 (b) $11,981; 330 ft. alley north 2nd Ave., 15.42 ft. (b) $2,206 (c) $1,945; 509 ft. alley west Avondale St., 6 ft. (b) $3,351 (c) $2,936; 411 ft. alley north Smith Pl., 21.25 ft. (b) $3,367 (c) $3,228; 518 ft. alley north Hanford St., 16 ft. (b) $3,546 (c) $3,131.

O., Mansfield—June 18, by H. C. Lynch, dir. Pub. Serv., City Hall, improving Glessner Ave., 104,000 sq.yd. paving, 6,330 lin. ft. concrete curbing and guttering, etc. W. C. Statler, city engr. Noted May 21.

O., Rocky River—June 9, by City, asphaltic concrete paving various streets. $45,000. E. H. Arnold, Rocky River, engr.

Michigan—June 8, by State Hy. Dept. at office Comrs. St. Joseph Co., Centerville, bituminous concrete paving 7.741 mi. State Trunk Line Rd. 13-68. G. C. Dillman, Lansing, ch. engr.

Michigan—June 8, by State Hy. Dept. at office Comrs. Kalamazoo Co., Kalamazoo, bituminous concrete paving 1.512 mi. State Trunk Line 13-69. G. C. Dillman, Lansing, ch. engr.

Michigan—June 12, by State Hy. Dept. at office Comrs. Osceola Co., Hersey, concrete paving 1.789 mi. Trunk Line Rd. 13-53 A and B, 20 ft. G. C. Dillman, Lansing, ch. engr.

Ill., Pekin—June 10, by B. F. Michael, pres. Bd. Local Impvts., rein.-con. surfacing 25,603 sq.yd. various streets. B. F. Smith, Pekin, engr.; adv. E. N.-R. June 4.

Wis., Cudahy—June 23, by C. Wolbert, city clk., integral curbing and vibrolithic or concrete paving 24,164 sq.yd. Pulaski, Bernard and Layton Aves. R. A. Steinhagen, 845½ 36th St., Milwaukee, engr. Noted Jan. 29.

Wis., Elkhorn—June 6, by Walworth Co. Hy. Com., at Court House, gravel surfacing 1,200 cu.yd. Lake Geneva-Delavan Rd., Trunk Highway 50, 5,700 cu.yd. Williams Bay, Walworth Rd., Trunk Highway 36, and 2,700 cu.yd. Delavan-Fontana Rd., Co. Trunk F. J. H. Peters, comr.

Wis., Milwaukee—June 8, by Dept. Pub. Wks., sheet asphalt paving 8,312 sq.yd. Prospect Ave.; asphalt resurfacing 4,040 sq.yd. Marietta Ave. and 4,031 sq.yd. National Ave. $70,000. J. Schwada, city engr.

Wis., Milwaukee—June 9, by Dept. Pub. Wks., concrete paving, etc., various alleys. J. Schwada, city engr.

Wis., Wauwatosa—June 12, by Bd. Pub. Wks., concrete paving, etc., 21,750 sq.yd. various streets. J. E. Lowther, City Hall, engr.

Ia., Council Bluffs—June 8, by W. A. Groneweg, city clk., City Hall, curbing, concrete, asphalt or brick surfacing, etc. approximately 80,000 sq.yd. various streets in Paving Dists. 1, 2 and 3. H. J. Wayne, city engr.

Ia., Madrid—June 8, by C. S. Adams, city clk., paving 12 blocks various streets. $40,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs. Noted Feb. 19.

Minnesota—June 16, by State Hy. Dept., 1246 University Ave., St. Paul, **(S. P. means State Project and F. A. P. means Federal Aid Project)**, grading 175,000 cu.yd. S. P. 1-44, Sect. 7, F. A. P. 372, 136,000 cu.yd. S. P. 1-44, Sect. 8, F. A. P. 373, 150,000 cu.yd. S. P. 19-21, F. A. P. 373, 266,000 cu.yd. S. P. 27-28, F. A. P. 172, and 125,000 cu.yd. S. P. 34-23, F. A. P. 274; concrete paving, etc., 56,200 sq.yd. S. P. 1-44, Sect. 1, Div. B, F. A. P. 1, 57,900 sq.yd. S. P. 1-44, Sect. 4, F. A. P. 1, 26,500 sq.yd. S. P. 3-38, Sect. 1, F. A. P. 371-A, and 86,000 sq.yd. S. P. 3-45, Sect. 1, Div. C and E, F. A. P. 363-A. Eng. Dept. State Highway Dept., engrs.

Minnesota—June 16, by State Hy. Comn., 1246 University Ave., St. Paul, **(S. P. means State Project and F. A. P. means Federal Aid Project)**, grading and gravel surfacing 4.4 mi. Minneopa Park-Lake Crystal Rd., S. P. 16-25, F. A. P. 319, $39,000; 10.5 mi. S. P. 10-51 Sect. 1, F. A. P. 226, and 5.4 mi. S. P. 10-51 Sect. 2, F. A. P. 361, $53,000; 6.5 mi. S. P. 13-21, Sect. 1, and 2.9 mi. Sect. 2, F. A. P. 346, $34,700; 10 mi. Little Falls-Randall Rd., S. P. 37-21, F. A. P. 334, $33,000.

North Dakota — June 11, by State Hy. Comn., Bismarck and Comrs. Bottineau Co., Court House, Bottineau, (F. A. P. means Federal Aid Project) graveling, etc. 5.271 mi. F. A. P. 43, east of Bottineau, 2.888 mi. F. A. P. 170, from east county line, 0.95 mi. F. A. P. 198, at Mouse River west of Bottineau, 5.2718 F. A. P. 43, east of Bottineau, and 7.8 mi. F. A. P. 145, west of Bottineau.

Mo., Kirksville—June 15, by City Clerk, grading, curbing and concrete paving 12,000 sq.yd. various streets. B. Crabtree, City Hall, engr. Noted Mar. 26.

Mo., St. Louis — June 30, by Bd. Pub. Serv., 208 City Hall, grading and concrete paving 38,960 sq.yd. City Blocks 1580, 1664, 2198, 2643, 2675, 2731, 2772, 2943, 3390, 3851 B, 4131, 4502 N, 4534, 5081, 5082, 5091, 5238, 5251, 5329, 5347, 5403, 5537, 5402, 5543, 5546 and 5679. $107,150. W. W. Horner, City Hall, engr.

Tex., Alpine—June 12, by J. A. Burke, judge Brewster Co., grading, clearing, grubbing, bridging, etc., 5.13 mi. State Highway 3, Federal Aid Project 378-E, 26 ft., 64,144 lb. reinforcing, etc. $49,083. A. L. White, Alpine, co. engr. Noted May 28.

Tex., Center—Shelby Co. taking bids improving 5.02 mi. State Highway 35, Federal Aid Project 348-A. $44,500. Titus & Dillon, Carthage, engrs. Noted Apr. 9.

Tex., Childress — R. G. Carroway Co., engrs., Childress, taking bids curbing, guttering and paving 69,000 yd. various streets. $150,000. Noted Apr. 16.

Tex., Gatesville — June 11, by L. M. Stinnett, judge Coryell Co., clearing, grubbing, grading, bridging and gravel surfacing 8,382 cu.yd. State Highway 93, State Aid Project 596, 33,875 lb. reinforcing, etc. $37,450. M. L. Minter, Gatesville, engr. Noted Apr. 2.

Tex., Gonzales—Gonzales Co. taking bids improving 8.09 mi. State Highway 81, Federal Aid Project 440-D. $25,000. J. C. Irby, Gonzales, engr. Noted May 21.

Tex., Jourdanton — June 12, by Comrs. Atascosa Co., 16,548 sq.yd. 1 in. rock asphalt surfacing, etc. State Highway 2, Federal Aid Project 332 sq.yd. $28,000. J. C. Curnutte, Jourdanton, engr. Noted Apr. 16.

Tex., Palestine—June 9, by W. C. Quick, judge Anderson Co., grading, bridging and gravel surfacing 10.15 mi. Brushy-Creek-Frankston Rd., 20,359 cu.yd. gravel, 20,652 lb. reinforcing, 120,534 ft. creosoted timber, etc. E. W. Davis, Palestine, co. engr.

Tex., Richmond—June 15, by W. I. McFarlane, judge Fort Bend Co., surfacing with Bates type rein.-con. on sand cushion with shell shoulders, 15.14 mi. State Highway 3, Federal Aid Project 326-2, 18 ft. $448,300. C. H. Kendall, Sugarland, engr. Noted May 14.

Oklahoma—June 15, by State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project)** grading and concrete surfacing 6 mi. F. A. P. 179, 18 ft., Garfield Co., $180,000; 3 mi. Garber Rd., 18 ft., F. A. P. 181, Garfield Co., $85,000; 3 mi. Red River Rd., 30 ft., F. A. P. 141, Love Co., $85,000; 5 mi. T. K. O. Highway, 9 ft., Murray Co., $60,000; 7 mi. Beggs Rd., 30 ft., F. A. P. 159, Okmulgee Co., $200,000; 4.57 mi. Choctaw-Harrah Rd., 18 ft., F. A. P. 159, Oklahoma Co., $130,000. J. M. Page, Capitol Bldg., Oklahoma City, highway engr. Noted May 28.

Okla., Drumright—June 15, by Peckham & James, engrs., 227 West Grand St., Oklahoma City, grading, curbing and concrete surfacing 8,600 sq.yd. Hillside and Creek Aves., Dist. 6, for City. $34,000.

California—June 15, by State Hy. Comn., Sacramento, bituminous seal coat surfacing 15.6 mi. road between Auburn and point ¾ mi. north of Colfax, Placer Co.; grading and crushed gravel or stone surfacing 6 mi. road between Floriston and Nevada state line, Nevada and Sierra Counties. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Modesto — June 9, by Supervs. Stanislaus Co., improving 2 in. oil macadam paving 2 mi. Tully and Carver Rds., 16 ft. J. H. Hoskins, Modesto, co. surv.

Ontario—June 9, by W. P. Coyle, clk. Essex Co., Sandwich, rein.-con. paving 50,000 sq.yd. road from Amherstburg northerly to Canard River and Division Rd., in Gosfield Twp. N. $150,000. Newman & Armstrong, Davis Blk., Windsor, engrs.

Ont., Gananoque — June 11, by J. Sampson, town clk., concrete, asphalt or bitulithic paving, etc. 11,000 sq.yd. King St. $40,000.

Streets and Roads (Continued)

James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS RECEIVED

Maine — State Hy. Comn., Augusta, gravel surfacing 2.91 mi. highway in Ellsworth and Hancock, from Boone & Brewer Constr. Co., Presque Isle, $48,797. Noted May 14.

Massachusetts—Dept. Pub. Wks., State House, Boston, bituminous concrete surfacing, 2,352 ft. highway in Walpole, from Washburn & Sheridan, East Taunton, $14,-871; bituminous macadam surfacing 10,480 ft. highway in Littleton and Westford, from A. Pallatio, Dracut, $89,556; gravel surfacing 3,718 ft. highway in Millis, from O. Menici, Brimfield, $11,869; concrete surfacing 7,695 ft. highway in Dartmouth, from L. H. Callan, 208 Franklin St., Bristol, R. I., $198,810; bridge and approaches on 1,850 ft. highway Northbridge, from R. A. Doyle, Lynn, **(item 1)** $45,220 **(item 2)** $45,870. Noted May 28.

Mass., Dorchester (Boston P. O.)—Dept. Pub. Wks., Boston, sheet asphalt or bitulithic paving Blue Hill Ave., here, from H. F. Malley, 174 Hillside Ave., Roxbury, $21,111. Engrs. ests. $25,000.

Conn., Hartford—Concrete paving Ridgefield St. and Westbourne Parkway, from Immick Co., State St., Meriden, $39,241. Noted May 14.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., May 25, grading, curbing and sidewalks on Bway. from Gifford Constr. Co., Fulton St., Jamaica, $13,260, Delta Pl. and Folsom Ave., from Highways Impvt. & Repair Co., 50 Church St., New York City, $16,807 and $21,181 respectively, Pulaski St., from C. Kurth, 9519 126th St., Richmond Hill, $7,955; grading, sidewalks, etc., on 44th Ave., from Peace Bros., Inc., 20 Main St., Flushing, $1,962; asphalt paving Speer St., from Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $17,877; grading, curbing, sidewalks on Beach 90th St., from J. D'Amata, Rockaway Beach, $8,783. Noted May 21.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., May 27, sheet asphalt paving 135th St. from Asphalt Constr. Co., 208 Bway., $104,904; granite block repaving Canal St., from J. Meehan & Son, 74 Cortlandt St., $54,976. Noted May 21.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, May 26, bituminous concrete repaving Richmond Rd., from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $13,743. Noted May 21.

New Jersey—State Hy. Dept., Trenton, concrete paving 48,325 sq.yd. Route 8, Sect. 6, Passaic and Morris Counties, from Salmon Bros., Netcong, $299,695. Noted May 14.

Delaware — State Hy. Dept., Dover, from Stewart & Donohue, 14th and Grant Sts., Wilmington, improving 1.35 Mermaid-Milltown (Limestone Rd.) Contr. CN-22, 6,600 cu.yd. excav. $1.40 per cu.yd. 100 cu.yd. rock excav. $3.50, 100 tons broken stone base course $5, 2,700 cu.yd. concrete paving $15.80 total $63,738; from George & Lynch, Dover, 5.18 mi. Kenton-Maryland Line, Contr. C. K. 25, 28,500 cu.yd. excav. $1.05, 2,000 cu.yd. borrow $1.05, 120 tons broken stone $4, 9,000 cu.yd. concrete paving $14.25, 27,350 lin.ft. metal joint $0.15; total $179,895; from Roberts Paving Co., Salisbury, Md., 5.12 mi. Waples Mill-Brick Granary, Contr. CS-39, 18,200 cu.yd. excav. $0.90, 100 tons broken stone $5, 8,900 cu.yd. concrete paving $16.40, 27,020 lin.ft. long metal joint $0.18, total $248,393. Noted Apr. 30.

S. C., York—York Co., hardsurfacing 6.5 mi. State Route 5, from R. G. Lassiter, Citizens Bank Bldg., Raleigh, N. C., $195,-993; 6.6 mi. same road, from J. L. Humbard, Empire Bldg., Knoxville, Tenn., $191,887.

La., Baton Rouge—Comn. Council, May 5, hardsurfacing 9 mi. various streets, from R. G. Lassiter and T. Harrison, Baton Rouge, $439,894. Noted Apr. 30.

O., Akron — Grading, laying sidewalks and vitr. brick paving, etc., 5,100 sq.yd. Merriman Rd., and 3,870 sq.yd. Ecton Rd., from T. E. McShaffrey Constr. Co., 173 South Forge St., Akron, $24,988 and $27,-674 respectively. Engrs. est. $31,700 and $35,500 respectively. Noted May 7.

O., Akron—Comrs. Summit Co., improving Kenmore-Mogadore Rd., 3,060 sq.yd. vitr. brick and 6,160 sq.yd. concrete paving, 1,020 lin.ft. stone curbing, 30,250 cu.yd. earth excav., from A. E. Guidford Constr. Co., Metropolitan Bldg., $58,361. Engrs. est. $68,000.

O., Cleveland—City, paving with **(a)** asphalt **(b)** brick or **(c)** granite **(1)** Ella Ave. **(2)** East 133rd St. **(3)** West 126th St. **(4)** St. Clair Ave. from East 140th to East 152nd Sts., (1 to 4 inclusive) involves 17,210 ft. asphaltic concrete or brick paving, 9,595 ft. stone curbing, etc., **(5)** Baldwin Rd. **(6)** Erin Ave. **(7)** Lardet St. **(8)** West 127th St. (5 to 8 inclusive) involves 15,780 sq.yd. asphaltic concrete or brick, 10,340 sq.yd. stone curbing, etc., **(9)** Nelson Ave. **(10)** Ernest Ave. **(11)** Wickford Rd. **(12)** West 128th St. **(13)** West 169th St. **(14)** Melzer Ave. **(15)** St. Clair Ave., (9 to 15 inclusive) involves 22,120 sq. yd. brick or asphaltic concrete, 25,230 lin. ft. stone curbing, etc., from Enterprise Paving & Constr. Co., 8444 Bway., **(b1)** $8,557; from Bentley Bros., 3030 Euclid Ave., **(a2)** $9,344 **(b2)** $11,261; from Roehl Bros., 7002 Denison Ave., **(a3)** $12,732 **(b3)** $14,775 **(a6)** $12,037 **(b6)** $14,396 **(a8)** $12,048 **(b8)** $14,480; from Baldwin Bros., 4500 Euclid Ave., **(a4)** $68,111 **(b4)** $75,019 **(c4)** $96,861; from River Constr. Co., 2402 Mapleside Rd., **(a5)** $36,729 **(b5)** $40,718 **(a15)** $61,745 **(b15)** $64,193; from Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, **(a9)** $52,567 **(b9)** $55,659 **(b10)** $7,261 **(a12)** $32,800 **(a13)** $10,625 **(b13)** $12,279 **(a14)** $29,929; from H. G. Herring, c/o Pavers Exchange, **(a11)** $20,662 **(b11)** $24,538; from Fischer & Williams, Lorain Rd., **(b12)** $36,906.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete paving 6.23 mi. Route 8, Sects. 43 and 46, Knox Co., from M. Hayes & Sons, 209 South La Salle St., Chicago, $118,000, 3.9 mi. Route 8, Sect. 44-A, Knox Co., from R. E. Myers, 1600 Oakland Ave., Milwaukee, Wis., $55,980; surfacing 0.29 mi. Starved Rock Park, Sect. P-4, La Salle Co., from H. A. Reischke Constr. Co., Geneseo, $10,-524, 8.6 mi. Route 23, Sect. 3, La Salle Co., from Trompeter & Sons, Peru, $165,-084. Noted Dec. 4 and Apr. 2.

Michigan — State Hy. Dept. at office Comrs. Shiawassee Co., Corunna, concrete paving State Trunk Line Rd. 47-11 C and 47-11 B, from J. C. Stewart, Owosso, $33,-032 and $52,520 respectively.

Mich., Albion—Improving various streets 7,500 cu.yd. concrete paving 25,000 lin.ft. curbing and guttering, 24,000 lin.ft. sidewalks, etc. from Vanderveen & Edwards, Grand Rapids, $40,000.

Ia., Boone — Boone Co., grading, gravel surfacing, etc. 20 mi. various roads, from M. Munson, Boone, at $0.275 for 1st mi. and $0.07 each additional ½ mi.

Calif., Los Angeles—City, **(e. e. means engrs. est.)**, grading and paving alleys west of Garrell Ave. et al., from California Paving Co., Los Angeles, $2,963 e. e. $2,921, 4,000 ft. Melrose Ave., from Tryon & Brain, 201 Tajo Bldg., $77,040 e. e. $88,079; curbing, guttering and paving Swall and Sherman Aves., from Spencer & Holt, 419 Court St., $31,601 e. e. $35,969; grading, sidewalks, curbing, paving, etc., Beverly Blvd., from C. O. Sparks, 2309 East 9th St., $1,679 e. e. $1,526; oil macadam surfacing, etc., 32,317 sq.ft. London St. on LaFayette Park Pl. Impvt. Dist., from F. E. Law, 750 Figueroa St., $6,491 e. e. $7,821; improving Vermont Ave., 8,355 sq.ft. sheet asphalt and 361,869 sq.ft. bituminous asphaltic concrete paving, etc., from J. Mullarkey, 8425 South Vermont Ave., $112,427 e. e. $131,473, 41st Dr. and Wesley Ave. Impvt. Dist., 975 sq.ft. sheet asphalt and 45,322 sq.yd. bituminous asphaltic concrete paving, etc., from Los Angeles Paving Co., 2900 Santa Fe St., $15,655 e. e. $17,183. H. A. Van Norman, City Hall, engr.

Calif., Marysville — Curbing, guttering, 1½ in. Warrenite bithulithic on 2½ in. asphaltic concrete surfacing 290,000 sq.ft. C, 9th, 13th Sts., etc. from Warren Constr. Co., 28th and Poplar Sts., approximately $75,085.

Calif., San Bruno—From Federal Paving Co., Standard Oil Bldg., San Francisco, improving Linden, Polar, Elm, Acacia Aves., etc., 305,000 sq.ft. 1½ in. Willite on 3 in. Willite asphaltic concrete surfacing $0.299 per sq.ft., 28,000 cu.yd. grading $1.99, 135,000 sq.ft. concrete walks, $0.25, etc., total $228,495. Noted May 21.

Okla., Okemah—June 12, by J. S. Price, city clk., grading, curbing and concrete surfacing 12,300 sq.yd. South 4th and North 3rd Sts. $40,700. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted May 7.

CONTRACTS AWARDED

Maine—State Hy. Comn., Augusta, gravel surfacing 3.32 mi. highway, Federal Aid Project 64, in New Sharon, to Wyman & Simpson, Waterville, $51,919. Noted May 14.

Maine—State Hy. Comn., Augusta, bituminous macadam paving 2.03 mi. highway in Houlton, and gravel surfacing 5.26 mi. highway in Livermore, to Boone & Brewer Constr. Co., Presque Isle, $60,797 and $88,-729 respecaively; bituminous macadam paving 4.3 mi. highway in Gray, to A. D. Bridges & Sons, Inc., Hazardville, Conn., $90,947. Grand total $240,473. Noted May 14.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 5,242 ft., highway in Hingham and Cohassett, to West Roxbury Trap Co., West Roxbury, $76,[illegible] and 7,444 ft. highway in Southampton and Easthampton, to W. C. Tannett, Jr., 11 East Union St., Easthampton, $57,787; concrete paving 14,953 ft. highway in Auburn and Oxford, to T. G. Jewett Jr., 35 [illegible] St., New Bedford, $150,427. Grand total $284,989. Noted May 21.

Massachusetts — Dept. Pub. Wks., State House, Boston, concrete paving 17,181 ft. highway in Plainville and Wrentham, to B. Perini & Sons, Ashland $187,665, and 3,626 ft. highway in Grafton, to C. A. Haggerty, Webster, $28,302; bituminous macadam paving 989 ft. highway in Randolf, to Peckman Road Corp., Farmington, N. H., $8,541; bridge and approaches on 270 ft. highway in Leicester, to A. R. Allen, Amherst, $8,876. Grand total $233,384.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, to M. J. O'Hara, 1228 Park Ave., New York City, asphalt paving and repaving Dean St., $10,889, Maple St. $6,670, Ave. O $5,347, Westminster Ave. $7,664, 13th Ave. $3,235, 9th St. $41,949, 57th St. $4,724, 61st St. $15,785, Ave. N $3,740, to Uvalde Asphalt Paving Co., 1 Bway., New York City, Belmont Ave. $6,813, Bristol Ave. $6,332, Lott Ave. $2,732, Williams Ave. $12,770, to Borough Asphalt Co., 1301 Metropolitan Ave., Carroll St. $3,203, St. Nicholas Ave. $3,853; to Grimm Contg. Co., 170 McKinley St., sidewalks on Leonard Ave. $1,729; to Cranford Co., 52 9th St., resurfacing McDonough St. $86,925; to W. J. McHale Contg. Co., 1250 Jefferson St., grading, curbing, flagging, etc., 19th Ave. from 71st to 72nd Sts. $1,227, 19th Ave. from 76th to 78th Sts. $1,259; to F. Persicano, 350 Fulton St., grading, sidewalks, etc., on 73rd St. $1,134. Noted May 28.

N. Y., Brooklyn—Park Bd., Dept. Parks, 64th St. and 5th Ave., New York City, improving Highland Park Dr., to Galco Contg. Co., 745 Dean St., $45,555. Noted May 28.

N. J., Jersey City—Hudson Co., concrete and granite block paving Tonnele and Manhattan Aves., to M. H. Dunn, 152 Belmont Ave., $116,088. This corrects report in May 21 issue.

N. J., Linden—Union Co. (Elizabeth) concrete paving Raritan Rd., here, to T. F. Burke, Park Ave., Plainfield, $106,109. Noted May 21.

Pennsylvania — State Highway Dept., Harrisburg, **(R. means Route)**, to Colgan & Kelly, State College, improving R. 28, Mifflin Co., 11,885 sq.yd. rein.-con. $3.05 per sq.yd., 2,515 cu.yd. unclassified excav. $150, total $50,046; to Metzger-Kirkpatrick & Wallace, Emporium, R. 100, Clinton Co., 13,158 sq.yd. rein.-con. $3.42, 5,092 cu.yd. unclassified excav. $3.20, total $113,840; to Miller Constr. Co., Punxsutawney, grading, etc., R. 105, Sect. 3, Cameron Co., 159,-790 cu.yd. unclassified excav. $0.80, 21,930 cu.yd. borrow $0.70, total $192,961. Grand total $350,847. Noted May 7.

Pa., Pittsburgh—Repaving Climax St., to Booth & Flinn Ltd., Forbes St., Pittsburgh, $51,113. Engrs. est. $47,000. Noted Nov. 13.

W. Va., Parkersburg — Paving West Virginia Ave., to Kennedy Constr. Co., Parkersburg, $25,000.

Florida—State Roads Dept., Tallahassee, to H. E. Wolfe, Elkton, paving with 6 in. Florida Lime rock base on prepared subgrade Project 629, Rd. 8, Highlands Co. $58,471, 9 in. of above paving Project 647, Rd. 8 $83,450; to L. M. Gray, Oak Hill, 8 in. above paving Project 628, Rd. 3, Bolusi Co. $138,270, to Whitney Constr. Co., Project 607-B, Rd. 13, Clay Co., $81,-091; to J. R. and J. B. Miller, Baconton, Ga., clearing, grubbing and grading, etc. Project 618, Rd. 5, Alachua Co. $44,694, to Taylor & Cox, Birmingham, Ala., Project 617, Rd. 5, Alachua Co. $21,506, Project 633, Rd. 1, Gadsden Co. $55,525, Project 639, Rd. 1, Gadsden Co., $34,531; to Southern Paving Co., Chattanooga, Tenn., clearing, grubbing, grading and sheet asphalt paving, etc. Project 661, Rd. 2-A, Lake Co., $150,314; to S. G. Collins, Milton, 20,000 cu.yd. earth embankment on Project 638, Rd. 1, Santa Rosa Co., $14,700. Grand total $682,552.

Alabama—State Hy. Comn., Montgomery, **(e. e. means engineers estimate)** sand clay surfacing 7.3 mi. Ozark-Troy Rd., 18 ft., Dale Co., to J. E. Newberry, Dothan, $42,-268, e. e. $42,500; chirt surfacing 12.22 mi. Ft. Payne-Valley Head Rd., De Kalb Co., and gravel and top soil surfacing 17.78 mi. Wetumpka-Coosa Co. line Rd., Elmore Co., to A. H. Singer, Montgomery, $105,893 and $152,346 respectively e. e. $106,000 and $152,500 respectively; gravel surfacing 11.12 mi. Athens Rd., Limestone Co., to Newell Contg. Co., 3828 Ave. A, Birmingham, $86,567 e. e. $86,600, 11.64

Streets and Roads (Continued)

mi. Cobbs Bridge-Paint Rock Rd., Madison Co., to W. T. Taylor, Wilsonville, $128,049, e. e. $128,500; bituminous surfacing 17.8 mi. Talladega-Oxford Rd., Talladega Co., to Columbia Asphalt Constr. Co., Columbia, $39,245, e. e. $39,500. Grand total $555,368. Noted Apr. 9.

Miss., Aberdeen — R. C. Maynard, city clk., grading, curbing, 2 in. Warrenite on concrete paving, etc., 40,000 sq.yd. Commerce, Franklin, Meridian and Maple Sts., to Southern Roads Co., Amer. Trade Bldg., Birmingham, Ala., $1.42 per sq.yd. Noted May 7.

Miss., Winona — Improving 4 mi. City Alley, Union, Church, Carrolton, College, Jones, Webster and Magnolia Sts., to G. W. Turner & Co., 280 Ayers St., Memphis, Tenn., concrete paving at $1.60 per sq.yd., curbing and guttering at $0.26 per ft. and excavation at $0.50 per yd. Noted Apr. 30.

Kentucky—State Hy. Dept., Frankfort, surfacing 2.689 mi. Federal Aid Project 51-B, Henderson Co., to Corum Bros., Madisonville, $18,185; grading, etc. 2.121 mi. Federal Aid Project 120-A, to Hunt-Forbes Constr. Co., Ashland $42,514, and 3.816 mi. Federal Aid Project 120-B, Morgan Co., to Smith & Combs Constr. Co., Levi, $70,672. Grand total $131,371. Noted May 7.

O., Akron—W. F. Peters, dir. Pub. Serv., (**e. e. means engrs. est.**) bridge repairs, constructing retaining wall and concrete paving 670 cu.yd. Stuber St., to A. F. Wible, 789 Chalker St., $15,525, e. e. $20,000; grading, laying walks and cindering, etc. 300 cu.yd. 6th Ave., to Shullo Constr. Co., 990 Chalker St., $5,260, e. e. $6,300; grading, curbing, laying sidewalks and vitr. brick paving 2,160 sq.yd. Clearview Ave., to McAlonan Bros., 506 Woodland Ave., $17,343, e. e. $18,000, 4,000 sq.yd. Moon St., to Hollinger & Davidson, 435 South Bway., $29,123, e. e. $32,000. Grand total $67,251. Noted Apr. 30.

O., Canton—Stark Co., May 15, (**e. e. means engrs. est.**) concrete paving Elton-Navarre Rd., and North Canton-Canal Fulton Rd., to E. Vogt Paving Co., Genl. Del., Massillon, $89,498 and $77,129 respectively, e. e. $95,000 and $75,000 respectively. Swamp Rd., Urban Bros., Massillon, $58,756, e. e. $60,000; monolithic brick paving Hills and Dales Rd., and Canton-Canal Fulton Rd., to General Asphalt Paving Co., Witters Bldg., Canton, $130,372, and $87,444 respectively, e. e. $140,000 and $85,000 respectively. Grand total $443,199. Noted Apr. 30.

O., Cleveland Heights (Warrensville P. O.)—Asphaltic concrete paving Antisdale, Revere and Superior Rds., to Spence Bros., Woodhill Rd., Cleveland, $57,949; curbing, guttering and asphaltic concrete paving Clarence, Glenwood, Medford, Noble Shire and Randolph Rds., to Baldwin Bros., 4500 Euclid Ave., Cleveland, $72,591, and Ardmore Dist., Allston, Ardoon, Monte Vista, Quilliams and Vineshire Rd., to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $188,189. Grand total $318,729. Noted May 28.

O., Columbus — Franklin Co., to B. F. Patterson, 1214 Neil Ave., sheet asphalt paving, etc. 680 ft. Polo Place Rd. $8,619, 2,358 ft. Elbern Ave. Rd. $3,119, 594 ft. Medway Ave. Rd. $7,850, and 892 ft. Broadmoor Ave. $11,582, all 26 ft. Grand total $31,170. Noted May 14.

O., Marion — Marion Co., concrete and macadam paving 6.75 mi. Marion-Cardington Rd., to L. D. Brady, Marion, $40,775. Engrs. est. $53,552.

O., Youngstown—Mahoning Co., improving Turner School-Ohltown Rd., to R. O'Rouck, Youngstown, $29,999, Crum Rd. and Shields-Titusville Rd., to Gray Bros., 817 Salt Springs Rd., $28,463 and $33,182 respectively; Lake Rd., to Dennison-Sturgis, Youngstown, $27,186; East Rover Rd., to Reedy Bros., Warren, $50,233; Center St., to J. McCaron & Son, Youngstown, $25,704. Grand total $194,567.

Mich., Jackson—Jackson Co., graveling 4.8 mi. Nowell-Wampus Lake Rd., to Hudson & Coons, East Lansing, $29,000.

Ill., Atwood—Grading, curbing and concrete paving various streets, to B. F. Walters, Peoria, $39,330.

Ill., Salem—Grading, curbing and hard surfacing, etc., various streets, to J. W. Jones, Benton, $98,267. Noted Feb. 5.

Wisconsin—C. R. Weymouth, div. engr., Stephenson Bldg., Milwaukee, to J. O. Legreid, Stoughton, improving 3.8 mi. Kilbourn Rd., Federal Aid Project 361-B, Racine Co., 23,313 cu.yd. earth excav. at $0.59 per cu.yd., 100 cu.yd. loose rock excav. $1.50, 100 cu.yd. solid rock excav. $3, 46,186 sq.yd. concrete paving, etc. $1.11, total $75,324, improving 2.2 mi. Fond du Lac Ripon Rd., Federal Aid Project 365-B, Fond du Lac Co., 11,395 cu.yd. earth excav. $0.60 per cu.yd., 100 cu.yd. loose rock excav. $1.50, and 100 cu.yd. solid rock excav. $3, 27,881 sq.yd. concrete paving $1.14, total $42,895. Noted May 14.

Wisconsin—C. R. Weymouth, div. engr. at Office 444 Milwaukee St., Milwaukee, to F. Doherty Co., 37th and Fond du Lac Aves., Milwaukee, improving 5.01 mi. Richfield-Ackerville Rd., Federal Aid Project 389-A, Washington Co., 46,905 cu.yd. earth excav. at $0.55 per cu.yd., 250 cu.yd. loose rock excav. $2, 100 cu.yd. solid rock excav. $4, 58,718 sq.yd. concrete surfacing $0.95, etc., total $102,175. Noted May 21.

Wis., Milwaukee—W. J. Cary, clk. Milwaukee Co., to Tex Constr. Co., 446 8th Ave., paving with (**a**) concrete (**b**) vibrolithic concrete, Lovers Lane Rd. (**a**) $26,774 (**b**) $28,319, 77th Ave. (**a**) $20,934 (**b**) $22,784; to Monad Constr. Co., 203 North Main St., Wauwatosa Ave. 2 (**a**) $68,128, Wauwatosa Ave. 4 (**a**) $50,369; to Milwaukee General Constr. Co., 427 Mitchell St., 8th Ave. 4, $50,264. Noted May 21.

Wis., Green Bay—H. J. Cormier, highway comr. Brown Co., grading and concrete paving, etc., 18,512 sq.yd. West Holland Rd., to H. O. Schaefer & Son, 1149 East Mason St., $30,929; and gravel or stone surfacing 5,000 lin.ft. Oneida-Freedom Rd., to H. McAbee, R. F. D. 1, Depere, $3,919. Noted May 7.

Wis., Green Bay—W. L. Kerr, city clk., City Hall, asphalt paving, etc., approximately 40,300 sq.yd. various streets, to F. P. Coughlin Co., 130 North Wells St., Chicago, Ill., at $2.50 per sq.yd. Noted May 21.

Wis., Rhinelander — City, for asphalt paving various streets, to Bridge Paving & Constr. Co., Wabash, Ind., $70,899. Noted

Wis., Wausau—J. L. Brown, city clk., vibrolithic concrete paving, etc., 12,820 sq. yd. 6th and Division Sts., to C. Lotz, 1016 Grand Ave., $2.04 per sq.yd. Noted May 28.

Ia., Ackley—City clerk, concrete paving about 38,000 sq.yd. various streets, to J. S. McLaughlin & Sons, Red Oak, $101,166. Noted Apr. 30.

Ia., Algona—Kossuth Co., grading 144,000 cu.yd. various roads, to McGuire Bros., Algona, $43,000, and 41,000 cu.yd. various streets, to R. C. Hort, Spencer, $13,000.

Ia., Des Moines—City Clerk, to Union Constr. Co., 200 New York Ave., concrete surfacing 3,308 sq.yd. Arthur St., at $2.14 per sq.yd., to S. A. Bakalyer, 3610 5th Ave., 720 sq.yd. alleys between East Grand and Des Moines Sts. and East 5th St. and Chicago & Northwestern Railway tracks, at $2.33, curbing 2,607 ft. 4th St., $0.474, 2,607 ft. 3rd St. at $0.474, 10,659 ft. East University St., $0.457, 1,412 ft. 59th St. $0.59; to Potts Bros., 1602 York St., curbing 2,607 ft. 5th St. $0.455; to Wright Constr. Co., 211 Flynn Bldg., brick surfacing 1,430 sq.yd. Center St. at $3.16 per sq. yd., vibrolithic concrete surfacing 1,589 sq. yd. Pleasant St. $2.20, concrete surfacing 248 sq.yd. 11th St. $2.35, 7,216 sq.yd. Bell Ave. $2.13. Noted Apr. 30.

Ia., Essex—F. C. Peterson, city clk., concrete paving approximately 22,000 sq.yd. various streets, to P. Nelson & Son, Council Bluffs, $53,765. Noted May 7.

Ia., Jefferson—Greene Co., gravel surfacing 3.5 mi. road south of Ripley, 3 mi. west of Paton, and 2 mi. township roads, to Dolson & Anderson, Geneva, 7,750 cu.yd. at $0.34 and 7,750 cu.yd. at $0.79 per cu. yd.; 83,959 cu.yd. grading, to Phelan-Shirley Co., 306 South 24th St., Omaha, Neb., $0.227 per cu.yd. Noted Apr. 30.

Ia., Montezuma—Poweshiek Co., gravel surfacing 13.2847 mi. Road 59-A, No. 416, to Tama Sand & Gravel Co., Tama, $28,191, gravel surfacing same road Sect. B, to Northwestern Gravel Co., 400 R. U. L., Des Moines, $10,295, hauling, to Heldt & Boyles, Everly, $4,129.

Ia., Sioux City—For 6 in. concrete paving 125,500 sq.yd. South Cornelia and Fairmount Sts., to Western Asphalt Paving Corp., 1st and Nebraska Sts., at $1.86 per sq.yd. Noted Apr. 2.

Ia., State Center—Grading, curbing and concrete surfacing 8,800 sq.yd. various streets, to Anderson & Emple, Marshalltown. Noted Feb. 19.

Ia., Webster City—Hamilton Co., gravel surfacing, etc., 30 mi. Maintenance Project 12, Primary Projects 217 and 218, etc., to W. H. McDaniel, Ft. Dodge, $19,019, Kayser Gravel Co., Pocahontas, $10,361, and C. L. Carlson, Stratford, $960. Grand total $30,340.

Neb., Pender—M. Smith, city clk., City Hall, grading, curbing, guttering and Willite paving 21,000 sq.yd. Dist. 1, to A. A. Dobson, 1st Natl. Bank Bldg., Lincoln, $65,987. Engrs. est. $66,000. Noted May 14.

Neb., Wilbur — W. W. Sopec, city clk., brick and sheet asphalt paving 30,000 sq. yd. streets in Dist. 1, to Abel Constr. Co., 318 Terminal Bldg., Lincoln, $2.80 per sq. yd. Engrs. est. $150,000.

Minn., Hastings — R. W. Downs, aud. Dakota Co., curbing, concrete paving, etc. 22,161 sq.yd. State Aid Rd. 7, Job 2507, to O. W. Swanson & Co., Plymouth Bldg., Minneapolis, $55,643. Noted May 14.

Minn., St. Cloud — Bitulithic concrete paving about 56,391 sq.yd. various streets, to Lawrence & McCann, Eveleth, $162,970. This corrects report in May 28 issue.

Minn., Wheaton — G. I. Kristenson, village recdr., concrete curbing, guttering and asphaltic concrete paving, etc., 17,500 sq. yd. Main St., to Welsh Paving Corp., 703 1st Natl.-Soo Line Bldg., Minneapolis, $55,551. Noted May 14.

North Dakota—State Hy. Dept. and Bd. Comrs. Logan and McIntosh Counties, at Court House, Ashley, grading, etc., 27.446 mi. road between Wishek-Fredonia, Federal Aid Project 254, 210,613 cu.yd. earth and 6,315 cu.yd. rock excav., 9,667 cu.yd. overhaul, etc., to H. Webster & Son, Turtle Lake, $78,767. Noted Apr. 23.

North Dakota—State Hy. Comn. and Bd. Comrs. Cass Co., Fargo, improving (**1**) 12.33 mi. Federal Aid Project 253, 72,678 cu.yd. earth excav., etc., (**2**) Federal Aid Project 268A, 127,258 cu.yd. earth and 900 cu.yd. rock excav., to W. H. Noel, Jamestown, grading (**1**) $29,983 (**2**) $44,056, graveling (**2**) $50,280; to J. A. Jardine, 1325 Front St., Fargo, N. D., concrete work on (**1**) $7,920 (**2**) $18,809. Grand total $151,048. Noted Apr. 23.

North Dakota — State Hy. Comn., and Wells Co., Court House, Fessenden, grading, etc. 28.883 mi. Federal Aid Project 264, 139,862 cu.yd. earth and 725 cu.yd. rock excav., etc., to Padgett & Wallace, Leeds, $65,000. Noted Apr. 23.

North Dakota—State Hy. Comn. and Bd. Comrs. Dunn Co., Court House, Manning, grading 4.294 mi. Federal Aid Project 266A, to Moyer & Kennedy, Bismarck, $14,333; concrete bridges on same, to W. W. Moyer, Bismarck, $10,787. Noted Apr. 23.

Missouri—State Hy. Dept., Jefferson City, to C. T. Fogle Constr. Co., Jefferson City, 26 ft. grading 2.466 mi. road from Forsyth north, Taney Co., $34,305; to Griffin & Harlan, Gainesville, 30 ft. grading 3.618 mi. road from Mt. View, east and west, Howell Co., $21,587, 3.954 mi. road from Ava west, Douglas Co. $27,119, to R. P. Harper Constr. Co., Leona, Kan., 0.317 mi. Weambleau-Wheatland Rd., Hickory Co. $3,148, 0.53 mi. road from Nevada north $15,695, 4.665 mi. Horton-Nevada Rd., both in Vernon Co. $30,150, to Beard & Crews, Warrenton, 0.238 mi. Versailles-Gravois Mills Rd., Morgan Co. $2,250, to J. G. Nevels & Mosoner, Willow Springs, 4.923 mi. Mt. View-Birch Tree Rd., Shannon Co. $30,944, to J. P. Harlin, West Plains, 4.28 mi. road from West Plains west, Howell Co., $29,576; to Quinlan & Kerns Constr. Co., Kansas City, grading and 18 ft. concrete paving 4.358 mi. Clinton-Deepwater Rd., Henry Co., $55,006; to F. Kersting Co., Jefferson City, 12 ft. gravel surfacing 2.765 mi. Versailles-Gravois Mills Rd., Morgan Co., $22,640; to Humphreys & Stebbens, Fredericktown, 3.939 mi. road from Fredericktown west, Madison Co. $48,045, to Wilson Constr. Co., Warrensburg, 4.41 mi. Annapolis-Des Arc Rd., Iron Co., $55,606; to J. C. Cox, Springfield, 16 ft. gravel surfacing 2.311 mi. road from Monett west, Barry Co., $17,258 and $19,717 respectively, and 2.765 mi., to J. S. Chaney, Branson, 8.068 mi. Licking-Houston Rd., Texas Co., $68,953; to Summerfield Jones Co., Billings, 20 ft. gravel surfacing 8.53 mi. road from Willow Springs north, Howell Co., $22,808; to C. I. Williams, Monett, 18 ft. chat surfacing 2.379 mi. Nevada-Deerfield Rd., Vernon Co., $24,486, to Nevada Constr. Co., Nevada, 2.94 mi. Nevada-Ft. Scott Rd., Vernon Co., $34,199. Grand total $591,081. Noted May 7.

Mo., Sedalia—City Clerk, grading, curbing and 1, 2, 3 mix concrete paving 8,000 sq.yd. Grand Ave., to F. T. Leaming, Springfield. Noted May 14.

Ark., North Little Rock—City, removing present wood block surfacing and 1½ in. Warrenite on 1, 3 and 5 in. concrete surfacing 8 blocks various streets in North Little Rock and Galloway Dists., to M. D. L. Cook, 6th floor Home Life Bldg., Little Rock, $32,682.

Tex., Breckenridge—Grading and paving various streets, to General Constr. Co., 402 Cotton Exch. Bldg., Ft. Worth, approximately $100,000. Noted May 7.

Tex., Denton — Denton Co., improving Texas and Bell Aves., to W. M. Jagoe Constr. Co., Denton, 10,000 sq.yd. asphaltic concrete paving at $2.20 per sq.yd., curbing and guttering at $0.70, and headers at $0.60, total $26,103. Engrs. est. $27,500.

Tex., San Antonio—Paving East Quincy St. from San Pedro to Erie Aves., to Uvalde Rock Asphalt Co., City Natl. Bank Bldg., approximately $26,000.

Tex., Somerset — Improving various streets, rock asphalt surfacing 67,500 sq. yd., to Wilmore Constr. Co., Wilmore, $172,794; one course concrete surfacing 7,500 sq.yd. and two course concrete sidewalks,

Streets and Roads (Continued)

etc., 47,000 sq.ft., to R. L. Peters, Holston Bank Bldg., Knoxville, Tenn., $21,833 and $36,120 respectively. Grand total $230,747.

Oklahoma — State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, S. A. P. State Aid Project and e. e. engineer's estimate)**, grading and concrete surfacing 3.726 mi. Oilton Rd., 18 ft., F. A. P. 109-F, Creek Co., to Ward-Brooks Co., Tonkawa, $111,925, e. e. $125,000; concrete surfacing 2 mi. Ardmore Rd., F. A. P. 89-B, 18 ft., Carter Co., to Gibson-Mitchell Co., Pauls Valley, $43,718, e. e. $50,000; vertical fibre brick surfacing 4.94 mi. F. A. P. 130-B, 18 ft., Oklahoma Co., to Green-Beekman Co., 519 West Main St., Oklahoma City, $185,186 e. e. $200,000; grading, etc. 9.85 mi. Lenapah-Kansas State Line Rd., 30 ft., F. A. P. 193-A and B, Nowata Co., to M. E. Gillioz, Monett, Mo., $27,554 e. e. $35,000, 2 mi. S. A. P. 32-A, 30 ft., Payne Co., to T. Collins, Cushing, $29,163 e. e. $30,000, 9.29 mi. S. A. P. 50-A and B, Pittsburg Co., to B. F. Flynn, Newkirk, $33,210 e. e. $42,000, 6.71 mi. S. A. P. 49-A, 30 ft., Mayes Co., to A. A. Davis & Co., Grain Exch. Bldg., Oklahoma City, $32,120, e. e. $40,000. Grand total $462,876. Noted May 7.

Okla., Ardmore — Grading, curbing and vertical fibre brick surfacing 5,110 sq.yd. South Washington St., to Cook & Cove, Ottawa, Kan., $25,520. Engrs. est. $28,250.

Okla., Cordell — Grading and concrete paving 20 blocks various streets, to Connelly Bros., Cordell, $90,000.

Okla., Cordell—Grading, curbing and concrete surfacing 35,360 sq.yd. Court Square, Grant, College and Valentine Sts., to R. H. Baldwin, 109 East Grand Ave., Ponca City, $107,556. Engrs. est. $120,000.

Okla., Tulsa—City **(e. e. means engineer's estimate)**, to H. L. Cannady & Co., 1104 South Lewis St., grading and sheet asphalt surfacing 4,774 sq.yd. in Dists. 625 and 626, $23,641 e. e. $25,800, 8,454 sq.yd. Dist. 632, $37,726 e. e. $39,000, 11,679 sq.yd. Dist. 637, $41,890 e. e. $43,000; to Standard Paving Co., 1740 East 6th St., 4,744 sq.yd. Dists. 627 and 630, $25,616 e. e. $26,000, 6,548 sq.yd. Dists. 635 and 639, $28,600 e. e. $30,000, 6,762 sq.yd. Dists. 640 and 641, $32,482 e. e. $34,600; to C. M. Brown, Nebraska Bldg., concrete surfacing 11,529 sq. yd. Dist. 638, $51,529 e. e. $53,900. Grand total $241,484.

Colorado — State Hy. Comn., Denver, **(e. e. means engrs. est.)** paving 1.02 mi. Federal Aid 290-A, Bent Co., to Salle Constr. Co., Pueblo, $34,561; grading, paving and bridging Federal Aid Project 288-B, Logan Co., to Engineers Constr. Co., Greeley, $70,413, e. e. $90,746; graveling 3.181 mi. Federal Aid 266-B, La Plata Co., to E. L. and J. L. Morrison, Colorado Springs, $17,272, e. e. $25,000; grading, etc. 18.725 mi. road between Bush and point south of Beta, Logan, Washington and Morgan Counties, to Scott & Curlee, Sterling, $102,627, e. e. $104,400. Grand total $224,873. Noted May 7.

Colo., Denver—City, **(e. e. means engrs. est.)**, to Western Paving Constr. Co., 5230 Washington St., asphalt paving 12 blocks East Denver Paving Dist. 16, $47,184 e. e. $54,110, 12 blocks Dist. 18, $39,422 e. e. $45,034, 12 blocks Dist. 10, $45,627; to New Mexico Constr. Co., 4015 Galapoga St., 12 blocks Dist. 17, $41,279 e. e. $47,796. Grand total $173,512.

Colo., Denver—Dept. Impvts. & Parks, **(e. e. means engrs. est.)**, to Allied Contractors, Inc., Majestic Bldg., asphalt paving 12 blocks West Denver Paving Dist. 8, $34,852 e. e. $40,042, 12 blocks Dist. 7, $32,041 e. e. $36,866, and 12 blocks Dist. 6, $39,943 e. e. $45,941. Grand total $106,836.

Colo., Denver—Dept. Impts. & Parks, **(e. e. means engrs. est.)** Asphalt paving 12 blocks South Denver Paving Dist. 5, and 12 blocks Washington Park Paving Dist. 4, to Levy Constr. Co., Symes Bldg., $33,925 and $39,450 respectively, e. e. $37,646 and $43,071 respectively; 12 blocks Park Hill Paving Dist. 1, to Western Paving & Constr. Co., 5230 Washington St., $38,484, e. e. $43,585; 12 blocks North Denver Paving Dist. 7, to New Mexico Constr. Co., 4015 Galapago St., $30,322, e. e. $37,866. Grand total $142,181.

Idaho—State Comn. Pub. Wks., at Court House, Paris, to Gleim & Shafer, pocatello, improving 5.54 mi. Old Oregon Trail and 1.88 mi. Bear Lake Highway, Bear Lake Co., 46,414 cu.yd. excav. at $0.26 per cu.yd., 2,200 cu.yd. stripping pits $0.20, 14,337 cu.yd. gravel surfacing $1.48, 784 cu.yd. surfacing binder $0.70, total $43,431. Noted Apr. 30.

Idaho, Wallace — Comrs. Shoshone Co., grading, bituminous concrete paving, etc., 10.375 mi. Coeur d'Alene Yellowstone Trail, Federal Aid Project 73-A and 64-B, to C. H. Helmer, Twin Falls, $195,750. Noted May 7.

Washington—State Hy. Dept., Olympia, to Holmberg & Norman, Port Orchard, constructing 10 mi. State Rd. 9, Olympic Highway, Grays Harbor Co., 2.81 acres clearing at $500 per acre, 60.31 acres grubbing $600, 132,960 cu.yd. earth excav. $0.60, 29,740 cu.yd. loose rock excav. $0.75, 3,300 cu.yd. solid rock excav. $1.50, 12,990 cu. yd. gravel surfacing $3, total $232,623. Noted Apr. 30.

Washington—State Hy. Dept., Olympia, grading State Rd. 10, Douglas Co., to Cole & Strong, Chelan, $17,818; grading and surfacing 0.43 mi. State Rd. 12, Pacific Co., to James & Brown, Rochester, $6,410; one course crushed gravel surfacing 4,500 cu. yd. State Rds. 2 and 3, Kittitas Co., to F. R. Hewett, 225 East 24th Ave., Spokane, $8,055 and $7,335 respectively; concrete T-beam bridge, 32,500 lbs. reinforcing bars, etc., over Waki Tiki Creek, on State Rd. 9, Mason Co., to A. R. Eichler, 2533 Alki Ave., Seattle, $10,061. Grand total $49,679.

Wash., Longview—City Clerk, curbing and concrete paving, etc., 124,861 sq.yd. L. I. D. 1, Residential Sect., to Olympic Constr. Co., 1326 Northlake Ave., Seattle, $364,468, engrs. est. $375,000; and 70,832 sq.yd. L. I. D. 2, Longview St., to J. C. Compton, McMinnville, Ore., $221,387, engrs. est. $235,000. Noted May 14.

Wash., Seattle—Bd. Pub. Wks., grading, curbing, concrete paving, etc., 13,780 sq.yd. Meridian Ave. et al., to Moceri Bros., Thompson Bldg., $36,361. Engrs. est. $41,750. Noted May 8.

Wash., Yakima—City Comn. one course concrete paving Bell St., South 14th, and 15th Aves., to Hardy & Richings, Yakima, $25,988. Engrs. est. $31,781. Noted May 21.

California — State Hy. Comn., Sacramento, grading and crushed stone or gravel surfacing 5.8 mi. highway between Camino and point 2 mi. east of Sportsman's Hall, El Dorado Co., to Irey & Holden, Lodi, $42,672, engrs. est. $53,219; widening and asphaltic concrete surfacing 8.2 mi. highway between Beardsley Canal and Lerdo, Kern Co., to Federal Paving Co., Standard Oil Bldg., San Francisco, $137,699, engrs. est. $157,696.

California—June 22, by State Hy Comn., Forum Bldg., Sacramento, grading and crushed gravel or stone with decomposed concrete surfacing 8.6 mi. highway between El Centro and Holtville, Imperila Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Bakersfield—Improving Chester Lane, 154,948 sq.ft. 1½ in. Warrenite bitulithic on 3½ in. asphaltic concrete surfacing, 154,948 sq.ft. subgrading, etc., to Union Paving Co., Call Bldg., San Francisco, $40,919.

Calif., Lakeport—City Trustees, 6 in. vibrolithic concrete paving, etc., Main St., to Proctor & Cleghorn, Rosenberg Bldg., Santa Rosa, $116,230. Noted Apr. 9.

Calif., Los Angeles—Bd. Pub. Wks., grading and concrete paving alleys in block south of 17th St. and West of Grand Ave.; also grading, curbing, guttering, sidewalks and concrete paving Hidalgo Ave. between Electric and Earl Sts., etc., to C. W. Shafer, 3301 South Hill St., $3,149 and $79,641 respectively; curbing, sidewalks, concrete paving 428,570 sq.ft. Sycamore Ave., to Ingalls & Marks, 39th St. and Western Ave., Los Angeles, $105,709.

Calif., Los Angeles—Los Angeles Co., concrete paving, etc., 23,941 sq.yds. San Pedro St. between Manchester and 9th Sts., to Sorensen & McNeal, 1231 South Walbridge St., $55,968; 9,890 sq.yds. Ford St. between Eugene and Chicago Aves., to L. J. Turner, 205 East 1st St., $26,758.

Calif., San Diego — Common Council, improving Dwight and 32nd Sts., to Hazard Constr. Co., 302 5th St., $23,707.

Calif., San Diego—Curbing, guttering, sidewalks, asphaltic concrete paving, etc., 220,817 sq.ft. 20th St., to Griffith Co., 25 14th St., $34,802.

Calif., San Francisco — Grading, sewers, and retaining wall, etc. on Roosevelt Way between 14th and Clayton Sts., to Schultz Constr. Co., 46 Kearny St., San Francisco, $57,963. Noted Apr. 16.

Calif., San Rafael—Marin Co., grading and vibrolithic concrete paving various streets in Fairfax, Dist. 9, to Pacific States Constr. Co., Call Bldg., San Francisco, $42,860.

Calif., Santa Rosa—Sonoma Co., macadam paving road from Monte Rio to highway between Sebastopol and Freestone, to Associated Constr. Co., 564 Market St., San Francisco. $145,200.

Ont., Agincourt—Scarboro Twp., asphalt and concrete paving 18,000 sq.yd. Main St., to Standard Constr. Co., Mimico, $57,000. Engrs. est. $60,000.

Ont., London—E. S. Little, chn. London Suburban Rds. Comn., County Bldg., concrete paving Hyde Park Highway, to Cadwell Sand & Gravel Co., Windsor, $50,000. Noted May 14.

Ont., New Toronto—W. H. C. Millard, town clk., asphalt paving, etc., 4,500 sq. yd. 5th St., to Standard Constr. Co., Mimico. Engrs. est. $30,000. Noted Apr. 30.

Ont., Niagara Falls — Will pave with asphalt 10,000 sq.yd. Robinson St., by day labor. $34,000. T. S. Scott, city engr.

Ont., Oshawa—W. C. Smith, city engr., curbing, guttering and asphalt paving 8,000 sq.yd. various streets, to Standard Paving Co., Central Chambers, Ottawa. Engrs. est. $30,000. Noted May 7.

Ont., Riverside — Asphalt and concrete paving 18,000 sq.yd. Ottawa St. and Luzon Rd., to Merlo, Merlo & Ray, Ford City, $37,485 and $15,418 respectively. Noted May 7.

Ont., Sutton—Concrete curbing, guttering and bitulithic paving 9,000 sq.yd. Main St., to Warren Bituminous Paving Co., 54 University Ave., Toronto. Engrs. est. $36,000.

Ont., Tecumseh—Sandwich East Twp., concrete paving 1½ mi. Rorman, Riberdy, Turner and Remington Rds., to Laleute & Canuel, Tecumseh. Engrs. est. $58,000.

Buildings—Industrial

PROPOSED WORK

Mass., Everett (Boston P. O.)—FACTORY—New England Tank & Tower Co. having plans prepared 1 story, 50 x 215 ft., rein.-con. factory. To exceed $40,000. Private plans.

Mass., New Bedford—MILL—Gilt Edge Silk Mills, Kempton St., having plans prepared by Leary & Walker, 307 Times Bldg., 2 story, 55 x 150 ft., brick addition, Kempton St. $65,000.

Mass., Willimansett — MANUFACTURING—B. F. Perkins & Son, Inc., Holyoke, having plans prepared by Lockwood, Greene & Co., 24 Federal St., Boston, 1 story, 80 x 260 ft. machine shop with 40 ft. craneway, and 2 story, 80 x 150 ft. building.

N. Y., Brooklyn — FACTORY — E. A. Wildermouth, 1061 Atlantic Ave., having plans prepared by A. Goldberg, archt. and engr., 164 Montague St., 4 story, 65 x 100 ft., rein.-con., brick and steel, plain foundation, Atlantic Ave. $125,000.

N. Y., Flushing—PLANT—Knickerbocker Ice Co., 45 East 42nd St., New York City, plans 1 story, 120 x 150 ft., rein.-con., brick and steel addition, plain foundation, Collins Pl. $150,000. Private plans.

N. J., Trenton—PLANT—Panelyte Board Co., Enterprise Ave., plans new 1 and 2 story plant. $75,000-$100,000. Engineer and architect not selected.

Pa., Emans — MILL — Tremont Silk Co., c/o Jacoby & Everett, archts., Commonwealth Bldg., Allentown, having plans prepared, 1 story, 120 x 140 ft. mill with 40 x 50 boiler house, brick and timber, plain foundation, here.

Pa., Jeannette—SHOP—G. M. Johnson Mfg. Co., having preliminary plans prepared 2 story, 40 x 100 ft., brick and tile shop. $40,000. Private plans.

Pa., Lewistown—SHOP—Ballinger Co., archts., 12th and Chestnut Sts., Phila., soon lets contract 1 story, 111 x 148 ft., brick and steel machine and carpenter shop, plain foundation on Juniata River, here, for Viscose Co., Marcus Hook.

Pa., Pittsburgh — REPAIR SHOP and GARAGE — Manchester Auto & Machine Co., 1216 Liverpool St., having preliminary plans prepared 2 story, 154 x 180 ft., rein.-con., brick and steel repair shop and garage. $200,000. Private plans.

Md., Baltimore—PLANT—Pioneer Hardwood Flooring Co., Ashland Ave. and 8th St., plans rebuilding 1 and 2 story plant, recently destroyed by fire. $100,000. Engineer and architect not selected.

Tenn., Chattanooga—PLANT—Davenport Hosiery Mills, 906 Georgia Ave., having plans prepared 2 story (ultimately 4 story) 93 x 228 ft., rein.-con. plant, incl. 22 x 28 ft. boiler house, 11th St. Lockwood, Greene & Co., Healy Bldg., Atlanta, Ga., and 24 Federal St., Boston, Mass., engrs.

Ind., Anderson—FACTORY—Ames Shovel & Tool Co., North Anderson St., plans new building, North Anderson St. $60,000.

Ill., Centralia—FACTORY—T. P. Barnett Co., archts., 1559 Arcade, St. Louis, Mo., and City Natl. Bank, Centralia, take bids about June 10, 3 story, 45 x 200 ft. and 45 x 45 ft. shoe factory, rein.-con. and brick, for Chamber of Commerce, $85,000. Pennington-Gilbert Shoe Co., St. Louis, Mo., lessee. Noted Feb. 5.

Wis., Green Bay—PLANT—Wisconsin Pub. Serv. Corp., 559 Marshall St., Milwaukee, plans 2 story, steam power plant, brick and concrete, plain foundation. Engineer not selected.

Wis., Milwaukee—REPAIR SHOP—Dept. Pub. Wks. had plans prepared by C. E.

Buildings—Industrial (Continued)

Malig, City Hall, and soon takes bids Central Repair Plant, 1 story, 120 x 460 ft., brick and steel, plain foundation, 16th St. $150,000.

Wis., Stoughton — PLANT — Martin Luthers Orphan Home, N. A. Stubkjaer, supt., plans rein.-con., brick and steel heating plant. $40,000. Engineer and architect not selected.

Ia., Newton — FACTORY — Maytag Co., having preliminary plans prepared by H. Reeder, 20 West Jackson St., Chicago, Ill., 6 story and basement, 84 x 213 ft., rein.-con. and brick factory addition.
S & R

Minn., St. Paul — FACTORY — Motor Power Equipment Co., 2512 University Ave., having plans prepared by C. H. Johnston, 715 Capital Bank Bldg., 1 story, 40,000 sq.ft. floor space, rein.-con. factory, near Ford plant. $100,000. Work will probably be done by day labor.

Minn., St. Paul—FACTORY—Schurmeier—Whitney Co., 419 North 5th St., Minneapolis, having plans prepared by Toltz, King & Day, Builders Exch. Bldg., 1 story, 100 x 130 ft., rein.-con. and brick, opposite Ford plant. $60,000.

Minn., Moorhead—PLANT—See "Waterworks."

Kan., Larned—POWER HOUSE—State Building Comn., Topeka, having plans prepared by C. D. Cuthbert, State House, Topeka, 1 story and basement, 55 x 108 ft. power house, here. $60,000.

Mo., Kansas City — BAKERY — Manor Baking Co., c/o R. A. Walker, 3628 Harrison St., having plans prepared by McKecknie & Trask, Bd. Trade Bldg., 3 story and basement, 71 x 222 ft., rein.-con., brick and terra cotta, plain foundation, High and Pennsylvania Sts. $175,000.

Ark., Pine Bluff — POWER PLANT — Arkansas Light & Power Co. having preliminary plans prepared 100,000 hp. hydro-electric power plant, incl. dam, etc., at Colbert Shoals. Ford, Bacon & Davis, 115 Bway., New York City, engrs.

Tex., Cuero—MILL—Belton Yarn Mills, P. M. Keller, genl. mgr., Belton, plans cotton mill rein.-con. and brick, here. $200,000.

Tex., Ft. Worth—BAKERY—Campbell Baking Co., c/o S. F. McDonald, pres., 30th St. and Troost Ave., Kansas City, Mo., plans rein.-con. and brick bakery. $200,000. Engineer and architect not selected.

Tex., Galveston—MILL—Galvez Mill Co., c/o A. A. Horne, W. Reed, and C. Stone, all of Galveston, plans cotton mill. $60,000. Engineer and architect not selected.

Tex., Galveston—WAREHOUSE—Compress & Warehouse Co., c/o J. D. Knox, genl. mgr., plans warehouse, 36th and 37th Sts., Avenues B and H. $250,000. Engineer and architect not selected.

Tex., Port Arthur — SHOPS — Kansas City Southern R.R. Co., Southern Bldg., Kansas City, Mo., having plans prepared new car and locomotive shops, power house, enlarging yards, dock improvements, etc., here. $1,250,000. A. N. Reece, ch. engr.

Tex., Temple — ICE PLANT — Local Investors, c/o Chamber of Commerce, plans ice plant, brick and concrete, 100 ton daily output. $150,000.

Okla., Frederick — POWER PLANT — City plans plant addition, and new equipment to electric light and power plant. $160,000.

Okla., Oklahoma City — PLANT — New State Ice Co., 2 West 3rd St., having preliminary plans prepared new 30 ton raw water ice plant. $60,000. C. Glitch, 1104 East 7th St., engr.

Calif., Hayward — CREAMERY — Eden Creamery, Atherton and C Sts., plans brick, concrete or hollow tile creamery. $45,000. Engineer and architect not selected.

Calif., San Diego — FACTORY — Amer. Can Products Co. had plans prepared by Moran Co., Kerckhoff Bldg., Los Angeles, 1 story, 80 x 100 ft., timber canning factory, San Diego St. $75,000.

Calif., San Francisco—FACTORY—John Lucas Paint Co., 368 12th St., Oakland, plans group fireproof buildings, here. $250,000. Engineer and architect not selected.

Calif., Van Nuys—FACTORY—Robert-Morton Organ Co., H. P. Platt, mgr., soon lets contract 1 story, 100 x 100 ft., brick and steel, Van Nuys St. $200,000. W. A. Schiller, Berkeley, archt.

BIDS DESIRED

N. Y., New York—GARAGE, etc.—June 8, by J. Miller, pres. Manhattan Boro, Municipal Bldg., garage addition at asphalt plant, also addition to stone dust storage building, 90th St. and East River.

Pa., Phila.—SERVICE STATION—June 5, by E. K. Taylor archt., 1416 Chestnut St., 1 and 2 story and basement, 50 x 88 ft. truck tire service station, brick, plain foundation, 3450 Ludlow St., for H. K. Schoff, c/o architect.

O., Cleveland — BOILER HOUSE and LAUNDRY—See "Buildings—Commercial."

Ind., Ft. Wayne — PLANT — News Sentinal Publishing Co., taking bids 3 story, brick, steel and concrete plant. $200,000. Meade & Hamilton, Bulkley Bldg., Cleveland, O., archts.

Ia., Sioux City — ROUNDHOUSE, SHOPS, etc.—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., taking bids superstructures 1 and 2 story, concrete, brick and steel roundhouse, machine shop, locker, pump, oil storage, sand drying houses, etc., here; general contract for foundations of above, to Coomer & Small, 311 United Bank Bldg. Noted Feb. 19, under "Buildings—Commercial."

CONTRACTS AWARDED

Mass., Brighton (Boston P. O.)—PLANT—Electric Storage Battery Co., 720 Beacon St., Boston, 1 and 2 story, 135 x 274 ft., brick and stone plain foundation, Ashford St., to G. B. H. MacOmber Co., 44 Bromfield St., Boston. Archts. est. $100,000. Noted Apr. 2.

Mass., Norwood—SHOP—Bird & Sons, Inc., East Walpole, 1 story painting shop, brick and timber, to Central Eng. Co., 218 Main St., Pawtucket, R. I. Archts. est. $40,000.

Mass., Springfield — SUB-STATION — United Electric Light Co., 73 State St., 1 story and basement, 60 x 160 ft., rein.-con. and brick, Wilbraham Ave., to Morrissey-Stowell Co., 145 State St. Archts. est. $150,000. Noted May 14.

R. I., Providence — FACTORY — Morris Clothes Shop, 10 Richmond St., 1 and 2 story and basement factory, to H. Soren, Wird Ave. Archts. est. $50,000.

Conn., New Britain—FACTORY—Hart & Cooley Co., Inc., Corbin Ave., 1 story, brick and steel, Corbin Ave., to W. H. Allen Co., Inc., 16 Hungerford Court. Archts. est. $40,000. Private plans.

N. Y., Long Island City — FACTORY — G. A. Shacht Motor Truck Co., 8th and Evans Sts., Cincinnati, O., 2 story, 180 x 180 ft., rein.-con., brick and steel, plain foundation, here, to W. F. Kenny Co., 44 East 23rd St., New York City.

N. Y., Long Island City — PLANT — Standard Oil Co., 26 Bway., New York City, 2 story, 155 x 196 ft., rein.-con. and brick, plain foundation, here, to H. D. Best, 175 5th Ave., New York City. Archts. est. $50,000.

N. J., Camden—PLANT—MacAndrews & Forbes Co., 3rd and Jefferson Sts., 1 story, 50 x 100 ft., rein.-con. and brick, 3rd and Jefferson Sts., to Barclay-White Co., 1713 Sansom St., Phila., Pa.

Pa., Braddock—STATION—United Electric Light Co., Wilmerding, retained Day & Zimmerman, Inc., engrs., 1600 Walnut St., Phila., to design and construct new central station, on Monongahela River, here.

Pa., Newell—ROUND HOUSE—Pittsburgh & Lake Erie R.R. Co., South Smithfield St., Pittsburgh, 1 and 2 story round house addition, here, to J. H. De Carpentier & Sons, Youngstown, O. Archts. est. $150,000. Noted Apr. 30.

Pa., Phila. — DYE HOUSE — Franklin Process Co., Clearfield and Hope Sts., 3 story and basement, 85 x 110 ft., brick, plain foundation, to J. N. Gill Co., City Center Bldg. Archts. est. $50,000. Private plans.

Pa., Phila.—LAUNDRY—Holland Laundry Co., 17th and Cayuga Sts., 2 story and basement, 82 x 128 ft., rein.-con. and brick, plain foundation, to Farrell-Roth Co., 1624 Spruce St. Archts. est. $65,000.

Pa., St. Marys—PLANT—St. Marys Clay Products, general contract 1 story, brick and tile plant, to Hughes Foulkrod Co., Stevens Fostio Bldg., Pittsburgh. Noted Apr. 30.

Va., Richmond—FACTORY and WAREHOUSE—Albemarle Paper Mfg. Co., Tredegar Bldg., 4 story and basement, 100 x 140 ft., rein.-con., James River, to Claiborne & Taylor, Addison and Monument Aves. Archts. est. $100,000.

W. Va., Huntington — STORAGE and REFINERY—J. M. McCoach & Son, 1301 7th Ave., 6 story and basement, 115 x 136 ft. cold storage and refinery, to C. W. Hancock & Son, Krise Bldg., Lynchburg, Va. Archts. est. $175,000.

La., New Orleans—PLANT—Cumberland Telephone & Telegraph Co., South Rendon and Gravier Sts., 2 story, 80 x 80 ft., concrete, brick and frame loading plant and warehouse addition, to C. N. Bott, Maison Blanche Bldg., $43,047.

O., Lakewood (Cleveland P. O.)—PLANT—Cleveland Trinidad Paving Co., M. F. Bramley, press 886 The Arcade, will build 1 story, steel and concrete, Halstead St., by day labor. $40,000. Private plans.

Mich., Detroit—FREIGHT TERMINAL—Detroit Ry. & Harbor Terminal Co., Buhl Bldg., (1st unit), 200 x 600 ft., rein.-con. warehouse, to Parklap Constr. Co., 84 Pine St., New York City. Noted May 21.

Ill., East St. Louis—MILL—Eagle Picher Lead Co., 305 St. Clair Ave., 1 story, corroding mill, concrete and timber, to Wimmer Contg. Co., Victoria Bldg., St. Louis, Mo. Archts. est. $50,000.

Wis., Brokaw—PLANT—Wausau Paper Mills Co., W. F. Edmunds, mgr., will build 3 story, 80 x 96 ft., rein.-con., brick and steel, plain foundation, by day labor $125,000. L. A. DeGuere, Wisconsin Rapids, engr.

Wis., Watertown—PLANT—Watertown Milk Products Assn., Route 2, 2 story, 60 x 82 ft. factory, 32 x 40 ft. boiler room, and 20 x 40 ft. receiving room, all rein.-con. and brick, plain foundation, to Watertown Constr. Co., 712 West Main St. Noted Apr. 30.

Wis., Sheboygan—FACTORY—Heinecke Co., 805 Indiana Ave., 2 story, 40 x 50 ft., rein.-con., brick and steel factory, plain foundation, to Verhulst Co., Inc., 2221 Calumet Ave. Archts. est. $40,000.

Wis., Waukesha — PLANT — H. C. Haeuser, archt., 445 Milwaukee St., Milwaukee, 1 story and basement, 62 x 116 ft., hollow tile and timber addition to bottling plant, plain foundation, here, to L. F. Schroeder Constr. Co., 13 East 1st St., Fond du Lac, for Waukesha Silurian Water Co. Archts. est. $40,000. Noted May 14.

Calif., Beverly Hills—Beverly-Globe Ice Co., 1030 Santa Monica Blvd., 2 story, 100 x 300 ft., ice cream plant, rein.-con., to Kimmerle-Hess Co., 230 West Jefferson St., Los Angeles, approximately $100,000.

Calif., Merced — FACTORY — Merced Tomato Products Co., 2 story, 80 x 100 ft. canning plant, to W. C. Steinmetz, Merced. $75,000.

Ont., Toronto—FACTORY and OFFICE—Ormsby & Rowan Ltd., 9 Richmond St. E., general contract 3 story and basement, rein.-con., York and Adelaide Sts., to Carswell Constr. Co., 58 Wellington St., E. Archts. est. $200,000.

Buildings—Commercial

PROPOSED WORK

Mass., Brookline (Boston P. O.) — APARTMENT—E. Silverstein, 16 Dix St., Revere, having preliminary sketches made by S. S. Eisenberg, 46 Cornhill St., Boston, 3 story and basement, brick apartment, here. $150,000 or more.

Mass., Cambridge (Boston P. O.) — APARTMENT HOTEL—E. N. Wyner, 18 Tremont St., Boston, will not construct Hotel Roosevelt, 10 story and basement, brick and limestone, Harvard Sq. $1,000,000. Project held in abeyance for the present. Noted May 21.

Mass., East Boston (br. of Boston) — COURT HOUSE — Dept. Pub. Buildings, Boston, plans brick and stone court house, here. $250,000. Engineer and architect not selected.

Conn., Danbury — DORMITORY — St. James Episcopal Church, A. C. Coburn, pastor, having sketches made by J. M. Howells, 367 Lexington Ave., New York City, brick and steel dormitory. $200,000.

N. Y., Brooklyn—APARTMENT HOTEL—Leverich Towers, c/o Starrett & Van Vleck, archts. and engrs., 393 7th Ave., having preliminary plans prepared 15 story, brick, steel and stone, plain foundation, Willow St. $3,000,000.

N. Y., Brooklyn — BANK — First Natl. Bank, Bway. and Boerum Sts., soon takes bids 3 story, brick, steel and stone, plain foundation, 176 Montague St. $150,000. L. C. Otto, 15 Park Row, New York City, archt. and engr.

N. Y., Brooklyn—GARAGE, etc.—Detroit Cadillac Motor Co., 1881 Bway., New York City, having plans prepared by C. E. Berge, archt. and engr., 103 Park Ave., New York City, 5 story, 115 x 175 ft., rein.-con., brick and steel, plain foundation, 737 Atlantic Ave., here. $400,000.

N. Y., Brooklyn—HOSPITAL—Lutheran Hospital Assn., East New York Ave., soon takes bids brick, steel and stone, plain foundation East New York Ave. $200,000. R. Resler, 41 East 42nd St., New York City, archt. and engr.

N. Y., New York — APARTMENT — D. Picuilo, c/o M. W. Del Gaudio, archt. and engr., 158 West 45th St., having plans prepared 6 story, brick, steel and stone, plain foundation, University Ave. $200,000.

N. Y., New York—APARTMENT—H. A. Murray, 988 5th Ave., having plans prepared by J. E. R. Carpenter, 598 Madison Ave., 14 story, brick, steel and stone, plain foundation, 80th St. and 5th Ave. $1,500,000.

Buildings—Commercial (Continued)

N. Y., New York—APARTMENT—S. W. Ehrich, 100 East 42nd St., plans 9 story, brick, steel and stone, plain foundation, 232 East 71st St. $600,000. Engineer and architect not selected.

N. Y., New York — APARTMENT — Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., preparing plans 6 story, brick, steel and stone, plain foundation, East 93rd St. $175,000. Owner's name withheld.

N. Y., New York — APARTMENT — S. Hoffman, 1476 Bway., plans 15 story, brick, steel and stone, plain foundation, 6th Ave. and 58th St. $1,200,000. Engineer and architect not selected.

N. Y., New York — APARTMENT — M. Maran & S. Stein, 277 Bway., plans 15 story, brick, steel and stone, plain foundation, 850 West End Ave. Engineer and architect not selected.

N. Y., New York — APARTMENT — K. Murchison, archt. and engr., 101 Park Ave., preparing plans 14 story, brick, steel and stone, plain foundation, Madison Ave. and 79th St. $1,300,000. Owner's name withheld.

N. Y., New York—APARTMENT—Vogel & Schultz, 7 East 42nd St., plans 15 story, brick, steel and stone, plain foundation, Bway. and 110th St. $2,000,000. Engineer and architect not selected.

N. Y., New York — ASSOCIATION — Bowling Green Neighborhood Assn., 45 West St., having plans prepared by J. F. Jackson, archt. and engr., 137 East 45th St., 4 story, brick, steel and stone, plain foundation, 105 Washington St. $200,000.

N. Y., New York — COURT HOUSE — City of New York, Bronx Boro Hall, Tremont Ave., having plans prepared 3 story, brick, steel and stone, plain foundation, Williamsbridge Rd. $350,000. Private plans.

N. Y., New York—GARAGE—Estate of G. Friedland, c/o L. Sheinart, archt. and engr., 194 Bowery, soon takes bids 4 story, rein.-con., brick and steel, 113 Chrystie St. $150,000.

N. Y., New York—HOSPITAL—City of New York Bellevue & Hospitals, 26th St. and 1st Ave., J. J. McGrath, pres., plans brick, steel and stone, plain foundation, Jackson Ave. between 145th and 147th Sts. $1,200,000. Private plans.

N. Y., New York—HOTEL—Rosenzweig Bros., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., having plans prepared 16 story, 90 x 100 ft. brick, steel and stone, plain foundation, 137 West 49th St. $2,000,000.

N. Y., New York—LOFT—D. Perlman, c/o A. P. Hess, archt. and engr., 345 Madison Ave., soon takes bids brick, steel and stone, plain foundation, West 35th St. $500,000.

N. Y., New York—OFFICE—Mandelbaum & Lewine, 160 Bway., and M. N. Natanson, 522 5th Ave., having plans prepared by H. C. Severance, 36 West 44th St., 30 story, brick, steel and stone, plain foundation, 5th Ave. and 44th St. $6,000,000.

N. Y., New York — OFFICE — Partos Realty Corp., c/o Rouse & Goldstone, archts. and engrs., 512 5th Ave., had plans prepared 15 story, brick, steel and stone, plain foundation, 110 West 42nd St. $1,500,000.

N. Y., New York — OFFICE — Royal Insurance Co., Ltd., 84 William St., having plans prepared by Starrett & Van Vleck, archts. and engrs., 393 7th Ave., 18 story, 250,000 sq.ft. floor space, brick and steel, plain foundation, William and Fulton Sts. $4,000,000.

N. Y., New York—OFFICE—Mandel-Ehrlich Corp., 1 Pershing Sq., having preliminary plans prepared by V. C. Farrar, archt. and engr., 1 Pershing Sq., 35 story, 200 x 200 ft., brick, steel and stone, plain foundation, Park Ave. between 32nd and 33rd Sts. $7,000,000.

Pa., East Pittsburgh (Pittsburgh P. O.) —OFFICE—B. H. Prack, archt., Martin Bldg., Pittsburgh takes bids about June 2, 11 story and basement, 52 x 360 ft., brick, steel and hollow tile office, here for Westinghouse Electric & Mfg. Co., East Pittsburgh.

Pa., Lehighton — HOME — Jacoby & Everett, archts., Commonwealth Bldg., Allentown, preparing plans 3 story and basement, 65 x 130 ft., brick, plain foundation, here. $150,000. Owner's name withheld.

Pa., McKeesport—HOTEL—McKeesport Community Hotel, c/o R. F. Dulaney, McKeesport, having plans prepared by B. Jannsen, Century Bldg., Pittsburgh, 4 story and basement, 120 x 140 ft., brick and tile, Blackberry St. and 5th Ave. $350,000.

Pa., Nazareth — DORMITORY — Poor Directors Northampton Co., Easton, having plans prepared by E. H. Wenzelberger, Easton, 3 story and basement, 27 x 97 ft. with two 32 x 116 ft. wings, brick, plain foundation. $150,000.

Md., Baltimore — APARTMENT — J. I. Goldstein, Greenway Apartments, having plans prepared by F. A. Fletcher, 407 North Charles St., 6 story, brick and steel, plain foundation, Park Heights Ave. near Shelburne Ave. $350,000.

Ga., Atlanta—OFFICE—Atlanta Chamber of Commerce, had tentative plans prepared by Pringle & Smith, Atlanta Trust Co. Bldg., 12 story, rein.-con., limestone, pressed brick, terra cotta and marble, on 87 x 88 ft. site, Pryor St. and Auburn Ave. $600,000.

Fla., Clearwater—HOTEL and OFFICE —G. H. Bowles, Gray Moss Inn, plans 7 story addition, Cleveland Ave. $200,000.

Fla., Lake Worth—OFFICE—Lauriston Securities Corp., 730 5th Ave., New York City, and Lake Worth, having plans prepared by M. L. Hampton & E. H. Ehmann, Miami, 2 story office building, Dixie Ave. $250,000.

Fla., Miami—HOTEL—East Coast Enterprise, Inc., T. W. Palmer, pres., plans 17 story hotel, North Bay Shore Dr. $2,000,000.

Fla., Tampa — APARTMENT — Bailey-Erler Corp., having plans prepared by F. J. Kennard & Son, Krauss Bldg., 6 story, 130x135 ft., rein.-con. apartment. $250,000.

Fla., Tampa — COURT HOUSE — Hillsborough Co. election June 2, $1,500,000 bonds for court house. W. A. D. Kenson, clk.

La., Alexandria — TEMPLE — Masonic Benevolent Assn., c/o C. N. Adams, pres., having preliminary plans prepared brick, stone and concrete, 4th and Johnson Sts. $200,000.

La., New Orleans — HOSPITAL — Bd. Trustees John Dibert Tubercular Hospital, plans hospital on 42 x 116 x 285 ft. site, Tulane Ave. and Claiborne St., adjoining Charity Hospital. $400,000.

Tenn., Kingsport — APARTMENTS — Bordén Mills, Fall River, Mass., plans 350 small buildings, brick and stucco, here. $200,000.

Tenn., Nashville—APARTMENT—Hart, Nevens, Freeland & Roberts, Independent Life Bldg., archts. and engrs., preparing plans 4 story, modern apartment building, Elliston Pl. $800,000. Owner's name withheld.

O., Cleveland—APARTMENT—Clairdoan Building & Constr. Co., c/o L. Arnoff, 420 Leader News Bldg., had plans prepared by G. Rudolph, 32 Trumbull Ave., 4 story, 122 x 350 ft., brick, steel and concrete, 14012 Lake Shore Blvd. $400,000.

O., Cleveland — APARTMENTS — East 86th St. Development Co., c/o S. H. White, archt., Schofield Bldg., having plans prepared three 4 story and basements, 60 x 97 ft., brick, East 86th St. near Euclid Ave. $300,000.

O., Cleveland — APARTMENT — Garden Court Realty Co., 517 Sloan Bldg., had plans prepared by G. A. Grieble, Sloan Bldg., 4 story, 42 x 120 ft., brick and rein.-con., 7346 Euclid St. $200,000.

O., Cleveland—APARTMENT HOTEL—Syndicate, c/o N. Weltman, 3320 Ormond Rd., Cleveland Heights, having sketches made by H. B. Beidler, Ulmer Bldg., 6 or 8 story, brick and rein.-con. apartment hotel, here. $400,000.

O., Cleveland — COMMERCIAL and APARTMENT — Gordon & Mason, 11414 Temblett Ave., having plans prepared by L. Skolnik, 6th St. Clair Bldg., 3 story and basement, 128 x 134 ft., brick and timber, East 195th St. and Temblett Ave. $150,000.

O., Cleveland — HOSPITAL — City, D. Blosson, dir. Pub. Welfare, plans chronic and convalescent hospital, brick, steel and concrete, Scranton Rd. $1,000,000. H. Kregelius, City Hall, engr.

O., Cleveland—LABORATORY—City, D. Blossom, dir. Welfare, City Hall, plans 3 story, brick, steel and concrete, Scranton Rd. $300,000.

Mich., Detroit — HOSPITAL — Detroit Presbytery, M. E. Anderson, chn., 259 West Grand Blvd., plans (1st unit) 3 story, concrete, brick and steel hospital. $200,000. Engineer and architect not selected.

Wis., Milwaukee — APARTMENT and BUSINESS—R. J. Kern, 930 38th St., having preliminary plans prepared by W. J. Kozick, 644 26th St., 3 story and basement, brick, tile and rein.-con., plain foundation, Vliet St. $150,000.

Wis., Milwaukee—APARTMENT—I. H. Benesch Co., 513 Van Buren St., having plans prepared by A. Kenney, c/o owner, 3 story, 90 x 192 ft., brick and tile, plain foundation, Prospect Ave. $200,000.

Wis., Milwaukee — THEATRE and BUSINESS—J. B. Cullen, 719 Marshall St., plans 3 story and basement, brick and concrete, plain foundation, Ogden Ave. $150,000. Engineer and architect not selected.

Wis., Racine — CLUB HOUSE — Ra[illegible] Aerie of Eagles, W. Armstrong, 1818 C[illegible] Ave., pres., plans 3 or 4 story, brick [illegible] concrete clubhouse, plain foundation. $[illegible] 000. Engineer and architect not selec[illegible]

Minn., St. Paul—HOSPITAL—Ra[illegible] Co. Bd. Control having revised plans [illegible] pared by Buechner & Orth, 500 Sh[illegible] Bldg., 4 story and basement, 150 x [illegible] ft., rein.-con., brick and stone addition, Jefferson and Colburn Sts. $400,000. Form[illegible] bids rejected. Noted May 28.

Kan., Kansas City—WAREHOUSE—[illegible] derson Furniture Co., 739 Minnesota [illegible] having preliminary sketches made by C. A. Smith, 336 Brotherhood Blk., 5 story and basement, 50 x 128 ft., rein.-con., brick and terra cotta. To exceed $150,000.

Kan., Leavenworth—HOSPITAL—Cus[illegible] ing Hospital Assn., postponed construction concrete and brick hospital until 192[illegible] $200,000. Keene & Simpson, 1005 Land Bank Bldg., Kansas City, Mo., archts. Noted Apr. 16.

Kan., Pittsburg—HOTEL—Chamber of Commerce, having plans prepared by Reyborn Eng. & Constr. Co., 609 Waldheim Bldg., Kansas City, Mo., 7 story and basement, 90 x 170 ft., rein.-con. and brick hotel. $300,000.

Mo., Kansas City — THEATRE — Boller Bros., archts., 114 West 10th St., take bids after June 15, 1 story, balcony and basement, 60 x 235 ft., rein.-con., brick and terra cotta, plain foundation, 3827 Main St., for E. E. Werner, 3360 Gillham Rd. $150,000. Noted May 14.

Mo., St. Louis—OFFICE——Syndicate of Doctors, c/o O. J. McCawley Realty Co., 613 Chestnut St., having preliminary plans prepared by Study & Farrar, 1363 Arcade Bldg., 8 story and basement, rein.-con., brick and steel, Washington St. $550,000.

Tex., Cameron — HOTEL — Syndicate, having preliminary plans prepared 4 or more story and basement, rein.-con., brick and stone hotel, plain foundation. $150,000. Project financed under auspices Chamber of Commerce.

Tex., Dallas — OFFICE — Dallas Cotton Exchange, R. L. Dixon, chn. Bldg. Com., 1501½ Commerce St., plans 16 story and basement, rein.-con., brick and steel, Harwood and San Jacienta Sts. $1,500,000. Engineer and architect not selected.

Tex., Georgetown—DORMITORY—Southwestern University, J. S. Barcus, pres., soon lets contract 3 story, U shape, 87 x 234 ft. women's dormitory, rein.-con., brick and stone, on campus, $225,000. M. L. Diver, 512 Calcasieu Bldg., San Antonio, engr. C. B. Schoeppel & Co., 319 Humble Bldg., Houston, archts.

Tex., Gonzales — HOTEL — Syndicate having plans prepared by M. L. Waller, archt. and engr., Standard Trust Bldg., San Antonio, 4 story, roof garden and part basement, rein.-con., brick and stone, plain foundation. $150,000. Noted Mar. 5.

Tex., Houston — WAREHOUSE — G. B. Post & Son, archts., 1003 Pioneer Bldg., Kansas City, Mo., take bids about Sept. 1, 6 or 7 story, rein.-con. and steel, plain foundation, North Main St. and Missouri, Kansas & Texas Railroad tracks, here, for Missouri, Kansas & Texas R.R. Co. of Texas, c/o A. Scharff receiver, Missouri, Kansas & Texas Bldg., Dallas. $3,000,000. Noted Apr. 30.

Tex., San Antonio—APARTMENT—L. J. Hart, Gunter Bldg., E. J. Altgelt, Frost Natl. Bank Bldg., A. Seeligson, 115 East Ashby St., et al., having plans prepared by Kelwood Co., archts. and engrs., Travis Bldg., 8 story and basement, rein.-con., brick and stone, plain foundation, Lexington and Oakland Sts. $1,000,000. Noted Apr. 16.

Tex., San Antonio — THEATRE and OFFICE—Boller Bros., archts., 114 West 10th St., Kansas City, Mo., take bids after June 15, 5 story and basement, 93 x 276 ft., rein.-con. and steel, plain and caisson foundation, Houston, Travis and Riverside Sts., for W. J. Lytle, 12 Princess Theatre Bldg. $1,000,000. Noted Apr. 2.

Colo., Denver—DORMITORY—Catholic Seminary having plans prepared by J. B. Benedict, 1669 Bway., (1st unit), 4 story, rein.-con. and brick, Louisiana and Cook Sts. $300,000.

Colo., Denver—TEMPLE—Hoyt & Hoyt, archts., Colorado Natl. Bank Bldg., soon takes bids superstructure 3 story and basement, 85 x 140 ft., rein.-con. and steel, between West 35th and 36th Sts., Federal and Elliott Aves., for Highlands Masonic Temple Assn., 3220 Federal Blvd., $225,000; foundation for above, to F. H. Corell, Central Savings Bank Bldg., $10,000.

Calif., Hollywood — HOSPITAL — Hollywood Hospital, North Vermont Ave., having plans prepared by Meyer & Holler, Wright-Callendar Bldg., Los Angeles, 5 story and basement, 36 x 200 ft., Class A hospital annex. $300,000.

Buildings—Commercial (Continued)

Calif., Los Angeles—APARTMENT—H. J. Barrett, archt., 245½ South Western Ave., preparing plans 12 story and basement, rein.-con., Wilshire Blvd. and Highland Ave. $200,000. Owner's name withheld.

Calif., Los Angeles—CLUB, etc.—Leach Cross, c/o J. J. Frauenfelder, archt., Story Bldg., Los Angeles, having plans prepared approximately 4 story (front section), 80 x 190 ft., rein.-con. clubhouse, incl. three tile lined swimming pools, Western Ave. $150,000 or more.

BIDS DESIRED

Massachusetts — TELEPHONE — New England Telegraph & Telephone Co., Milk St., Boston, taking bids two 2 story, 35 x 55 ft., brick telephone buildings, one in Needham, and other in Wakefield. $150,000. P. A. Hopkins, 177 State St., Boston, archt.

Mass., Arlington (br. of Boston) — THEATRE, STORE and APARTMENT — J. E. Locatelli Co., 151 Highland Ave., will build 1 and 2 story and basement, 160 x 200 ft., brick and stone, plain foundation, Lake St. and Massachusetts Ave. To exceed $150,000. Work will be done by separate contracts. W. W. Drummey, 80 Boylston St., Boston, archt. Noted May 28.

Mass., Quincy (Boston P. O.) — THEATRE—W. J. Bradford, c/o W. J. Freethy, archt., 110 State St., Boston, will build 1 story and basement, 100 x 160 ft., rein.-con., brick and steel, plain foundation. $150,000. Work will be done by separate contracts.

R. I., Newport — HOTEL—June 6, by Chamber of Commerce, W. C. Campbell, secy., 5 story, 70 x 152 ft., brick, stone and steel, plain foundation, Touro St. $350,000. Day & Zimmerman, 1600 Walnut St., Phila., Pa., engr. Thomas, Martin and Kirkpatrick, 112 South 16th St., Phila., Pa., archts. Noted Dec. 11.

Conn., Hartford — SOCIAL — F. Walz, archt., 407 Trumbull St., taking bids and opens same about June 15, 3 story, 44 x 188 ft., brick and limestone, concrete foundation, Main St., for I. O. O. F. Society. $255,000.

Conn., Manchester — TOWN HALL — June 17, by Town Selectmen, Hall Records, 2 story, rein.-con., brick and timber, concrete foundation. F. C. Farley, 333 4th Ave., New York City, archt. $200,000. Noted Oct. 23.

N. Y., Brooklyn—THEATRE and STORE —Perri Contg. Co., Inc., c/o J. M. Berlinger, archt. and engr., 469 7th Ave., New York City, will build brick, steel and stone, plain foundation, Flatbush Ave., here. Work will be done by separate contracts. $600,000.

N. Y., Creedmoor (Jamaica P. O.) — HOSPITAL—June 24, by State Hospital Comn., Albany, additions and alterations to kitchen and dining rooms at Brooklyn State Hospital, here. S. W. Jones, state archt.; adv. E. N.-R. June 4.

N. Y., New York—APARTMENT—L. E. Kleban, Inc., 1714 Crotona Park E., will build 15 story, brick, steel and stone, plain foundation, 207 West 106th St. $1,500,000. Work will be done by separate contracts.

N. Y., New York—OFFICES—June 15, by Sloan & Robertson, archts. and engrs., 1 Pershing Sq., 21 story, brick, steel and stone, plain foundation, Cedar and Williams Sts., $2,500,000; also altering 15 story office building, at 57 William St., $200,000, both for Cedar William St., Corp., c/o architects. Noted Apr. 9.

Pa., Altoona—CITY HALL—June 9, by City and Hersh and Shollar, archts., Commerce Bldg., 3 story and basement, 76 x 107 ft., brick, stone and steel city hall. $300,000. G. J. Baum, city engr. Noted May 14.

Pa., Chester—STORE and APARTMENT —June 5, by J. T. Hoekstra, archt., 1713 Sansom St., Phila., 3 story and basement, 45 x 119 ft., brick, plain foundation, 26 East 7th St., here, for A. P. Musselman, 712 Fulton St.

Pa., Washington — HOSPITAL — Washington Hospital Assn., D. Owens, Supt., and Schmidt, Garden & Martin, archts., 104 South Michigan Ave., Chicago, Ill., taking bids 4 story and basement, brick, steel and tile addition, Nelson Ave.

O., Cleveland — APARTMENTS — H. B. Beidler, archt., Ulmer Bldg., taking bids two 4 story and basement, 60 x 68 ft., brick, 1906-20 East 85th St., for Dependable Constr. Co. $250,000.

O., Cleveland — COMMERCIAL and OFFICE—June 15, by W. S. Ferguson Co., archts. and engrs., 1900 Euclid Ave., 10 story, 135 x 320 ft., brick, steel and concrete, Euclid Ave. and East 24th St., for Motors Realty Co., c/o G. G. G. Peckham, pres., c/o Ohio Buick Co., 1903 East 19th St. $1,000,000. Noted May 8.

O., Cleveland—NURSES' HOME, etc.—June 15, by Mount Sinai Hospital, F. E. Chapman, dir., 1800 East 105th St., 2 story and basement, brick, steel and concrete nurses' home, patients' building and laboratory, also alternating boiler house, main and laundry buildings. Private plans. Noted Nov. 13.

O., Dayton — TEMPLE — June 20, by Dayton Masonic Lodge, and Herman & Brown, archts., 1129 Reibold Bldg., 3 story and basement, 150 x 260 ft., rein.-con., brick and steel, plain foundation. Stoddard St. $1,500,000.

O., Rocky River (Cleveland P. O.)—STORE, OFFICE and THEATRE — M. Rubin, Ulmer Bldg., Cleveland, taking bids 2 story, brick, steel and concrete, Madison and Hillard Rds. $300,000. Braverman & Havermaet, 208 Ulmer Bldg., Cleveland, archts.

Mich., Detroit — HOSPITAL — June 9 (extended date), by H. H. Prenzlauer, secy. Pub. Welfare Comn., Clinton St., 9 story and basement, rein.-con., brick and steel, plain foundation, Clinton St. $1,000,000. Carey & Esselstyn, 602 Hoffman Bldg., archts. and engrs. Noted May 14.

Ill., Joliet—ORPHANAGE—June 10, by E. Brielmaier & Sons, archts., 432 Bway., Milwaukee, Wis., 3 story and basement, 90 x 197 ft., concrete and brick orphanage, incl. boiler house and laundry, plain foundation, here, for Guardian Angel Orphanage. $400,000.

Wis., Milwaukee—BUSINESS—Leiser & Holst, archts., 105 Wells St., taking bids 4 story and basement, 44 x 120 ft., rein.-con., brick and steel, plain and wood pile foundation, 3rd St., also 1 story, 40 x 120 ft. addition on adjoining building, for J. B. Olinger, 194 3rd St. $150,000. Noted May 21.

Kan., Kansas City—COURT HOUSE—Wyandotte Co. taking bids 5 story and basement, 134 x 222 ft. court house. $1,000,000. White & White, 1st Natl. Bank Bldg., Kansas City, Mo., archts. Gillham, Cook & White, Interstate Bldg., Kansas City, Mo., engrs. Noted Mar. 13.

Tex., Brady—WAREHOUSE—E. A. Burrow, engr. McCulloch Co., taking bids 200 x 200 ft. steel warehouse.

Wash., Olympia—LEGISLATIVE HALL —June 30, by State Capitol Comn., erecting and completing excavation, concrete work, brick, cut stone, waterproofing, structural steel, ornamental work and sub-contracts, etc., for 179 x 341 ft. hall. $3,750,000. Wilder & White, 16 East 41st St., New York City, N. Y., archts. Bebb & Gould, 710 Hoge Bldg., Seattle, associated archts.

Ore., Portland—OFFICE and STORE—June 15, by A. E. Doyle, archt., Worcester Bldg., 10 story, 75 x 200 ft., rein.-con., solid rock foundation, 5th, 6th and Yamhill Sts., for Corbett Estate, H. L. Corbett, Corbett Bldg., mgr. $1,000,000.

BIDS RECEIVED

Mass., Brighton (Boston P. O.)—COURT HOUSE—City of Boston Dept. Pub. Bldgs., 1 story and basement, 80 x 200 ft., granite and limestone, Chestnut Hill Ave. and Academy Hill Rd., here, from T. O'Connor Co., 218 Main St., Cambridge. $355,000. Noted May 22, 1924.

N. Y., Long Island City — FIRE STATION — T. J. Drennan, fire comr. Municipal Bldg., May 26, central station for Bureau Fire Alarm & Telegraph, Myrtle Ave., Forest Park, here, from Dooley Stapleton Corp., 257 Delphi Pl., Brooklyn, $135,224. Noted May 21.

Pa., Erie—Y. W. C. A., 1045 West 9th St., 2 story and basement, 71 x 160 ft., rein.-con., brick and steel, incl. swimming pool, from Upton & Lang, Commerce Bldg., $133,387. Noted Mar. 5.

CONTRACTS AWARDED

Mass., Boston—WAREHOUSE—Morgan Memorial Corp., 89 Shawmut Ave., F. S. Moore, treas., 6 story and basement, 80 x 100 ft., rein.-con. and brick, plain foundation, 36-44 Kirkland St., to W. H. Bailey Co., 88 Broad St. Archts. est. $150,000-$175,000.

Mass., Brighton (Boston P. O.)—WAREHOUSE and OFFICE — International Harvester Co. of America, 42 Somerville Ave., Somerville, 4 story and basement, 100 x 150 ft., rein.-con. and brick, 63 North Beacon St., to Aberthaw Constr. Co., 27 School St., Boston. Archts. est. $200,000. Noted May 21.

Mass., Marlboro — BANK — First Natl. Bank of Marlboro, 1 story and basement, 75 x 140 ft., brick and stone, plain foundation, Main St., to Holt-Fairchild Co., 7 Water St., Boston. Archts. est. $150,000. Noted May 28.

Mass., Norton—DORMITORY—Wheaton College, Dormitory 4, addition to Emerson Hall, 2 story and basement, brick and limestone, to J. T. Wilson & Son, Nahant. Archts. est. $200,000.

Mass., Somerville (Boston P. O.) — STORE, OFFICE and GARAGE—Kolligian & Sons, 9 Union Sq., 2 story and basement, 8,000 sq.ft. floor space, rein.-con. and brick, Union Sq., to J. E. Locatelli, 151 Highland Ave. Archts. est. $150,000. Noted Apr. 16.

Mass., West Roxbury (Boston P. O.)—STORE—G. Rednick, c/o S. E. Moffee, archt., Cornhill, Boston, will build 1 story and basement 90 x 240 ft., brick and stone, Center St., by day labor. $150,000.

R. I., Woonsocket—STORE—S. S. Kresge Co., Kresge Bldg., Detroit, Mich., 2 story and basement, brick, plain foundation, 116 Main St., to Eastern Constr. Co., Woonsocket. Archts. est. $150,000.

Conn., Hartford—OFFICE and STORE—Ferrigno & Perrone (contractors), 20 Darien St., will build 6 story, brick and steel, Asylum St. $500,000. Owner's name withheld.

N. Y., Brooklyn — BANK — Prudential Savings Bank, Stuyvesant Ave., brick, steel and stone addition, plain foundation, Stuyvesant Ave., to J. Auers Bros., 648 Lexington Ave. Archts. est. $150,000.

N. Y., Brooklyn—WAREHOUSE—New York Telephone Co., 15 Dey St., New York City, rein.-con. and steel, plain foundation, Fulton St., here, to White Constr. Co., Inc., 95 Madison Ave., New York City. Archts. est. $600,000.

N. Y., New York—BANK and OFFICE —Corn Exch. Bank, 13 William St., 1 story, brick, steel and stone, plain foundation, Kingsbridge Rd., to W. V. Kiehnle Co., 3606 Park Ave. Archts. est. $200,000.

N. Y., New York—CLUB and HOTEL—Levell Club, Inc., 922 St. Nicholas Ave., 14 story, brick, steel and stone, plain foundation, 251 West 73rd St., to J. Stewart & Co., Inc., 17 East 42nd St. Archts. est. $1,000,000. Noted Jan. 29.

N. Y., New York — OFFICE — G. C. Smith, c/o H. O. Chapman, archt. and engr., 171 Madison Ave., 8 story, brick, steel and stone, plain foundation, 41 West 57th St., to Fountain & Choate, 110 East 23rd St. Archts. est. $175,000.

N. Y., Rochester—BANK—Lincoln Alliance Bank, brick, steel and stone, plain foundation, North Goodman St., to G. A. Fuller, 175 5th Ave., New York City. Archts. est. about $750,000. Noted Apr. 26, 1923.

N. J., Blackwood — HOSPITAL — Freeholders Burlington Co., Camden, (1) alterations and additions to insane hospital (2) infirmary and isolation building, etc., to J. S. Rogers, Drexel Bldg., Phila., Pa., (1) $473,260 (2) $250,490; plumbing, to W. Newall, 1707 Sansom St., Phila., Pa., (1) $33,914, to N. Connolly, 2404 North 18th St., Phila., Pa., (2) $20,992; heating, to J. H. Hutchison, 1020 Callowhill St., Phila., Pa., (1) $30,955 (2) $13,997. Noted May 28.

Pa., Hanover — HOSPITAL — Hanover Genl. Hospital, 3 story and basement, 54 x 137 ft., Highland and Charles Sts., to J. B. Ferguson, Hagerstown, Md. Archts. est. $200,000. Noted Apr. 30.

Pa., Charleroi — BANK — Hopkins & Dentz, archts., 415 Lexington Ave., New York City, 1 story, basement and mezzanine, 64 x 120 ft., brick and steel, plain foundation, here, to Gibbs Constr. Co., Commercial Exch. Bldg., Phila., for Bank of Charleroi & Trust Co. Noted May 21.

Pa., Meadville—ORPHANAGE—W. H. Crosby, archt., Oil City, 2 story and basement, 85 x 157 ft., brick, steel and concrete, Allegheny St., to A. Wishart & Sons Co., 172 Silver St., Sharon, for Meadville Lodge I. O. O. F. $203,000. Noted May 7.

Pa., McKeesport—OFFICE—Bell Telephone Co. of Pennsylvania, 416 7th Ave., Pittsburgh, general contract 3 story and basement central office building, 6th Ave., to W. F. Trimble & Sons, 1719 Pennsylvania Ave., Pittsburgh, $146,000.

Pa., Verona—BANK—First Natl. Bank, Verona, general contract 1 story, basement and mezzanine, 50 x 129 ft., Front St., to Conley & De Mey, 127 North Hiland Ave. Archts. est. $150,000. Noted Apr. 16.

Pa., York — BANK — W. L. Stoddart, archt., 50 East 41st St., New York City, 1 story, basement and mezzanine, 50 x 115 ft., rein.-con. and brick, plain foundation, Market and Newberry Sts., here, to Consolidated Eng. Co., Calvert Bldg., Baltimore, Md., for Western Natl. Bank. Noted Apr. 30.

O., Canton—HOTEL—Stark Hotel Co., Canton, 12 story and basement, 67 x 200 ft., Cleveland and 3rd Sts. N. W., to Caldwell & Evans, 3rd and Cleveland Aves., N. W. Archts. est. $1,500,000. Noted Jan. 1.

O., Dayton—OFFICE—Schenck & Williams, archts., Mutual Home Bldg., 12 story, 60 x 100 ft., rein.-con., brick and stone, Main St., to Shook & Billiter, Schwind Bldg., for Third Natl. Bank, 21 East 3rd St., about $900,000.

Ill., Aurora — WAREHOUSE — Chicago, Burlington & Quincy R.R. Co., 547 West Jackson Blvd., Chicago, 3 story and base-

Buildings—Commercial (Continued)

ment, 100 x 500 ft., rein.-con., plain foundation, here, to Wells Bros. Constr. Co., 53 West Jackson Blvd., Chicago. Archts. est. $400,000.

Ill., Niles Center—STORE and OFFICE—M. J. Faherty Co., 77 West Washington St., Chicago, general contract 2 story and basement, 75 x 120 ft., rein.-con. and brick, Dempster St. and the Bronx, to Friberg & Co., 3840 Southport St., Chicago. Archts. est. $200,000.

Wis., Milwaukee—HOTEL—M. Tullgren & Sons, archts., 425 East Water St., 8 story and basement, 120 x 124 ft.; brick and concrete addition plain foundation, Juneau Ave., to S. M. Siesel Co., 160 Ogden Ave., for Hotel Astor Co., Juneau Ave. and Marshall St. $700,000. Archts. est. $750,000. Noted Apr. 23.

Minn., Minneapolis — OFFICE — M. T. Baker, 517 Marquette Ave., general contract 12 story and basement, 100 x 165 ft., rein.-con., brick and terra cotta, 7th St. and 2nd Aves., to J. Leck Co., 211 South 11th St. Archts. total est. about $1,000,000.

Mo., Kansas City — BUSINESS — Levy Bros. Meat & Provision Co., 22 City Market, general contract, 3 story and basement, 62 x 130 ft., rein.-con., brick and terra cotta business building, to E. E. Williams, 3542 Main St. Archts. est. $150,000.

Mo., Kansas City — GARAGE — J. H. White, 619 Lee Bldg., 2 story and basement, 116 x 149 ft., rein.-con., brick and steel garage, to M. S. Shinnick, Jenkins Bldg. Archts. est. $150,000.

Mo., Kansas City — HOTEL — C. E. Phillips Building Co., 609 Victor Bldg., will build 5 story and basement, 75 x 122 ft., rein.-con. and brick hotel, by day labor. To exceed $150,000. N. E. Peters, 1006 Orear-Leslie Bldg., archt. Noted Mar. 19.

Mo., Kansas City—WAREHOUSE—Patterson Corp., 3110 Gillham Rd., 3 story and basement, 172 x 227 ft., rein.-con., brick and steel warehouse, to H. Stiver, 402 Shukert Bldg. Archts. est. $150,000.

Tex., Dallas—CLUB—Owners, c/o H. H. Mitchell, pres., Interurban Bldg., 2 story, brick and tile, Santa Fe Bldg., to Watson Co., 1927 South Akard St., approximately $150,000. Noted Apr. 30.

Wash., Seattle—APARTMENT—J. L. Holmes, archt., Pantages Bldg., 5 story and basement, 60 x 120 ft. apartment, Union and Boren Sts., to A. S. Hainsworth, Natl. Bank of Commerce Bldg., for Sovereign Investment Co., Pantages Bldg. Archts. est. $250,000. Noted Apr. 2.

Calif., Fresno—THEATRE—West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles, Class A theatre, Fulton St., to Trewhitt-Shields Co., Rowell Bldg., Fresno. $300,000.

Calif., Hollywood — CLUB — J. Morgan, archt., Merchants Exch. Bldg., San Francisco, 3 story and basement, rein.-con. clubhouse, to J. C. Bannister, 6331 Hollywood Blvd., Los Angeles, for Hollywood Studio Club. $155,000. May 21.

Calif., Long Beach—APARTMENT—S. C. Robertson, 4 story and basement, rein.-con., brick and hollow tile, 6th St., to Stradley-Newton, & Wilkie, Markwell Bldg., Long Beach, approximately $160,000.

Calif., Long Beach—STORE—Cash Store Co., general contract 4 story and basement, 75 x 150 ft., brick and steel, East Bway., to Long Beach Brick Co., 243 East 7th St., Long Beach, $149,950.

Calif., Los Angeles—HOTEL and STORE—L. Offer, 408 Commercial Exchange Bldg., 4 story and basement, 50 x 150 ft., brick and concrete, 11th and Burlingame Sts., to A. Bard & Co., 421 Union Oil Bldg., Los Angeles, $152,000.

Calif., Merced — HOTEL and STORE — E. N. Baker, 7 story and basement, 100 x 150 ft., rein.-con. hotel and store building, to Davis-Heller-Pearce, Inc., Delta Bldg., Stockton, $300,000.

Calif., San Francisco—APARTMENTS—J. Cummings, 275 Russ Bldg., two 6 story and basement, concrete apartments, Larkin St. near Eddy St., to Kincanon & Walker, 275 Russ Bldg., $80,000 each.

Calif., San Francisco—APARTMENT—J. G. Kincanon, 275 Russ Bldg., 6 story and basement, rein.-con., Eddy and Larkin Sts., to Kincanon & Walker, 275 Russ Bldg., $175,000.

Calif., San Francisco — HOTEL — C. S. Blair, et al, 10 story and basement, brick and rein.-con., Jones and Turk Sts., to Monson Bros., 251 Kearny St., approximately $250,000.

Ont., Toronto—NURSES' HOME—E. J. Lennox & Son, archts., 364 Bay St., general contract 5 story and basement, 80 x 150 ft., rein.-con., brick and steel, plain foundation, Dunn Ave., to Page & Co., Ltd., 353 Weston Rd. S., for Hospital for Incurables, Dunn Ave. Archts. est. $200,000. Noted May 14.

Ont., Toronto — OFFICE — Dept. Pub. Wks., Parliament Bldg., structural steel for office building, Queens Park, to Dominion Bridge Co. Ltd., Reford Bldg.; reinforcing steel, to B. McDonald, 83 Coulter Ave., Weston; brick and tile, to Don Valley Brick Wks., Federal Bldg. Noted Apr. 16.

Buildings—Educational, Religious

PROPOSED WORK

N. H., Concord—HIGH SCHOOL—Building Com., H. J. Lake, chn., 97 North Main St., plans 2 story and basement, brick high school. $150,000. Engineer and architect not selected.

Mass., Brighton (Boston P. O.) — SCHOOL—School House Dept., F. P. Glynn, chn., Boston, plans Kindergarten-Primary School, 2 story, brick, Washington Allston Dist., here. $150,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.)—LAW SCHOOL — Harvard University, A. L. Lowell, pres., plans law school. To exceed $150,000. Engineer and architect not selected.

Mass., Fall River—CONVENT—Owner, c/o L. G. Destremps, archt., 11 Pleasant St., having preliminary sketches made 2 story convent of Jesus Mary. $150,000.

Mass., Lincoln—SCHOOL—School Com. plans 2 story and basement, brick school. $150,000. Engineer and architect not selected.

Mass., Raynham — SCHOOL — School Comm. having sketches made by F. I. Cooper Corp., 172 Tremont St., Boston, 2 story, brick school. $150,000.

R. I., Providence — COLLEGE — State plans new college $600,000. Engineer and architect not selected.

R. I., Providence—HALL—Bd. Trustees Woman's College, Brown University, had plans prepared by Andrew, Jones, Biscoe & Whitmore, 50 Congress St., Boston, 2 story and basement, rein.-con., brick and stone, plain foundation, Cushing and Meeting Sts. $400,000 funds being raised.

R. I., Providence—SCHOOL—Com. Educ. plans school for crippled children. $150,000 or more. Engineer and architect not selected.

R. I., West Warwick—HIGH SCHOOL—School building Com., J. A. Swanson in charge, plans Junior High School. $150,000 or more. Engineer and architect not selected.

Conn., Deep River — CHURCH — Deep River Baptist Church, c/o W. H. McLean, archt., 88 Tremont St., Boston, having sketches made 1 story and basement, brick and stone church. $150,000.

N. Y., New York—CHURCH and HOTEL—Calvary Baptist Church, J. R. Straton, pastor, 123 West 57th St., having preliminary plans prepared by McKim, Mead & White, 101 Park Ave., 12 story, 100 x 100 ft., brick, steel and stone, plain foundation, 123 West 57th St. $2,000,000.

Pa., Indiana—CHURCH and SUNDAY SCHOOL—United Presbyterian Congregation, J. C. Pinkerton, 645 School St., pastor, having plans prepared by G. E. Savage, Witherspoon Bldg., Phila., 1 and 3 story and basement, stone, Church St. $150,000.

Pa., Phila.—COLLEGE—P. Getz, archt., Victory Bldg., preparing plans 2 story and basement private college, stone. $150,000. Owner's name withheld.

Pa., Waynesburg — GYMNASIUM — Waynesburg College, P. R. Stewart, pres., having preliminary plans prepared by W. Ullon, c/o Ullon & Reilly, 3 story, 90 x 190 ft. gymnasium. $200,000.

La., Shreveport—CHURCH—Kings Highway Christian Congregation, soon takes bids 2 story, rein.-con., brick and stone church. $250,000. Jones, Roessle, Olschner & Weiner, Maison Blanche Bldg., New Orleans, archts. Noted Apr. 9.

Tennessee—HIGH SCHOOLS—Jefferson Co. Bd. Educ., Dandridge, having plans prepared by Barber & McMurray, 425 West Clinch Ave., Knoxville, 4 new high school buildings, at Jefferson City, White Pines, New Market and Dandridge. $165,000.

O., East Liverpool—HIGH SCHOOL—City plans 2 story Junior High School, East End. $250,000.

O., Oxford — CHURCH and SUNDAY SCHOOL—First Presbyterian Church, having plans prepared by Howell & Thomas, 4500 Euclid Ave., Cleveland, 2 story and basement, concrete and stone, Main and Church Sts. $150,000.

Ill., Champaign—STUDENT CENTER—McKinley Foundation Corp., c/o J. W. Malone, pastor, 412 East Daniel St., having preliminary plans prepared 2 story and basement, rein.-con., brick and stone, on campus. $200,000.

Wis., Racine—HIGH SCHOOL—Election July 28, $900,000 bonds North and South-side High Schools, for Bd. Educ., A. H. Schafer, secy. Engineer and architect not selected.

S. D., Groton—SCHOOL—Defeated $113,450 bonds, for 2 story and basement, rein.-con. and brick school. E. A. McKiver, clk. Bd. Educ. Noted May 7.

Calif., Berkeley — UNIVERSITY — State plans election $3,000,000 bonds, for additional buildings at University of California, here.

BIDS DESIRED

Vt., Burlington—HIGH SCHOOL—June 10, by W. Fenton, School Com., Junior High School, 3 story, 80 x 120 ft. and 60 x 120 ft., brick and stone. $250,000. F. L. Austin, 240 College St., archt. Noted May 28.

Mass., Billerica—SCHOOL—School Comm. taking bids 2 story and basement, brick and stone, Talbot St. $150,000. J. H. Bickford Co., 6 Beacon St., Boston, archts. Noted Mar. 5.

Mass., Bridgewater—SCHOOL—June 5, by Dept. Educ., State House, Boston, State Normal School, 2 story and basement, brick, plain foundation, $500,000 and Training School, 2 story basement, brick, plain foundation, $150,000. G. Lowell, 12 West St., Boston, archt. Noted Jan. 8.

Mass., Lynn — CHURCH — Church of Incarnation, Broad St., taking bids 1 story and basement, brick and stone, plain foundation. $150,000. J. G. Trudinger, 35 Baltimore St., archt.

Conn., Bridgeport—SCHOOL—State Bd. Educ., State House, Hartford, taking bids 2 story and basement, 80 x 370 ft., brick and steel, Kossuth St. $200,000. E. B. Caldwell, Jr., 886 Main St., archt. Noted Jan. 15.

N. Y., Eltingville (Sta. Staten Island)—SCHOOL — June 18, by W. H. Gompert, supt. Bd. Educ., Flatbush Ave. extension and Concord St., Brooklyn, constructing P. S. 42, Richmond Ave., here, for Bd. Educ., 500 Park Ave., New York City.

Pa., Elwood City — HIGH SCHOOL — June 30, by W. G. Eckles Co., archt., New Castle, 3 story and basement, brick, tile and steel high school, here, for Bd. Educ. $200,000.

Pa., Pittsburgh—CHURCH—East End Christian Church, Alder St., and V. A. Rigamount, archt., State Theatre Bldg., soon lets contract 2 story and basement, brick and steel, Adler St. $400,000. Noted Apr. 2.

Md., Baltimore—SCHOOL—June 9, by L. R. White, archt., Hearst Tower, 2 story and basement, 67 x 100 ft. with 54 x 68 ft. wing, brick, plain foundation, Franklin Ave., for St. Anthonys School, Franklin Ave. west of Belair Rd.

La., Baton Rouge — DORMITORIES — June 12, by L. H. Himes, secy. building com. Louisiana State University, 4 story, brick dormitories. $100,000 each.

O., Piketown—HIGH SCHOOL—June 9, by Bd. Educ., J. A. Downing, clk., 2 story and basement, 100 x 120 ft., rein.-con. and brick high school. $150,000. F. J. Porter, Columbus, archt.

O., Steubenville—HIGH SCHOOL—Bd. Educ., W. S. McCausler, clk., taking bids Grant Junior High School, brick, steel and concrete. Peterson & Clark, Steubenville, archts.

Mo., Kirksville—SCHOOLS—June 9, by C. F. Link, secy. Bd. Educ., two 2 story and basement, rein.-con., brick and stone grade schools. Thomas, McLennan & Thomas, 527 West 17th St., Des Moines, Ia., archts. Noted May 7.

Colo., Denver—SCHOOL—June 17, by Bd. Educ., School Administration Bldg., 4 story and basement, 68 x 123 ft., brick, rein.-con. and steel, 13th and Welton Sts. $150,000. F. Redding, Tabor Opera House Bldg., archt.

Colo., Longmont—HIGH SCHOOL—June 22, by W. N. Bowman, archt., Wyoming Bldg., Denver, 3 story, brick and rein.-con. high school with 65 x 240 ft., and 60 x 100 ft. wings, here, for School Dist. $220,000.

BIDS RECEIVED

Mass., Milton (br. of Boston) — HIGH SCHOOL — Town Building Com., 2 story

Buildings—Educational, Religious (Cont.)

and basement, 90 x 145 ft., brick and stone addition, Brooks Rd., from C. A. Batson Co., 26 Arlington St., Brockton.

Mass., South Attleboro—SCHOOL—City, R. R. Briggs, chn. com., general contract 2 story and basement, brick and stone, Washington St., from Brennan Henry Co., 32 Devonshire St., Boston, $148,300. Noted May 21.

Mass., Worcester—SCHOOL—City, J. B. Moss, chn. com., 5 story and basement, 52 x 180 ft., brick, limestone and steel addition to boys trade school, from E. P. Pitfield Co., 405 Main St., $90,807. Noted Mar. 19.

Conn., Southington (Hartford P. O.)—SCHOOL—School Com., Town Hall, general contract 2 story and basement, brick and steel, from C. F. Wooding & Co., 43 Wallace Ave., Wallingford, $123,644; plumbing and heating, from J. T. Kay Co., Meriden, 127,970. Noted May 28.

Pa., Reading — HIGH SCHOOL — Bd. Educ., and Superintendent Buildings, 3 story and basement, 152 x 360 ft., brick and steel, plain foundation, Oley and Palm Sts., from Melody & Son, 1322 Race St., $1,026,000; electrical work from C. McCaul Co., 1713 Sansom St., Phila., $45,900; plumbing, from Herre Bros., 7th and Emerald Sts., Harrisburg, $61,409; heating and ventilating, from N. Connolly, 1404 North 18th St., Phila., $146,446. Noted May 21.

O., Cleveland Heights (Warrensville P. O.)—SCHOOL—Bd. Educ., W. G. Nesbit, dir., 1781 Lee Rd., Cleveland, 2 story and basement, 33 x 179 ft., brick, steel and concrete addition, Noble Rd., here, from A. A. Lane Constr. Co., 1869 East 55th St., Cleveland, $123,086. Noted Mar. 5.

O., South Charleston—HIGH SCHOOL—Bd. Educ., May 15, 2 story and basement, about 57 x 128 ft., brick and concrete high school, from Chappelear & Gardner, Portsmouth, $111,249. Noted Apr. 23.

Tex., Houston — HIGH SCHOOL — Bd. Educ., c/o H. L. Mills, bus. mgr., 1600 Washington Ave., general contract Junior High School, 3 story, rein.-con., brick, steel and stone, Woodhead St. and Westheimer Rd., from J. T. Taylor, B. Burnett Bldg., Ft. Worth, $381,550; plumbing and heating, etc., from Warren Co., 1214 McKinney Ave., $28,687. Noted May 14.

Calif., Sacramento — COLLEGE — Sacramento Junior College Dist., general contract group of junior college buildings, from W. Keating, Forum Bldg., Sacramento, $299,900; plumbing, from Hateley & Hateley, Mitau Bldg., Sacramento, $25,854.

CONTRACTS AWARDED

N. H., Goffstown — HIGH SCHOOL — School Com., 2 story and basement, 40 x 110 ft., brick, Independent School Dist., to Davison & Swanberg, 57 Amherst St. Archts. est. $150,000.

Mass., Acton—SCHOOL—Town, E. Hall, chn. com., 2 story and basement, 80 x 122 ft., rein.-con. and brick, Massachusetts Ave., to Duncan Constr. Co., 31 Exchange St., Lynn. Archts. est. $150,000. Noted May 14.

Mass., Danvers — REFECTORY — St. Johns Preparatory School, 2 story and basement, 80 x 182 ft., brick and steel, plain foundation, to J. F. Griffin Co., 15 Exchange St., Boston. Archts. est. $150,900. Noted Apr. 30.

Mass., Milton—HIGH SCHOOL—Town of Milton, J. F. Mitchell, chn. Bd. Selectmen, 2 story and basement, 10,000 sq.ft. floor space, brick and stone, addition, plain foundation, Brook Rd., to C. A. Batson, 26 Arlington St., Brockton. Archts. est. $150,000. Noted May 7.

N. Y., Brooklyn — MONASTERY — Our Lady of Mt. Carmel, c/o N. Serracino, archt. and engr., 565 5th Ave., New York City, brick, steel and stone, plain foundation, St. Johns Pl. between Bedford and Rogers Aves., to J. Kennedy & Co., 1133 Bway., New York City, $238,400.

N. Y., Brooklyn—SYNAGOGUE—Union Temple, Bedford and Lafayette Aves., brick, steel and stone, plain foundation, Eastern Parkway and Plaza St., to J. H. Taylor Constr. Co., 31 Union Sq., New York City. Archts. est. $500,000.

N. Y., East Islip—SCHOOL—Bd. Educ., 3 story, 124 x 143 ft., brick, steel and stone, plain foundation, to Pearce Bros., 220 West 42nd St., New York City. Archts. est. $260,000.

N. J., Jersey City—CHURCH—Simpson and Grace Methodist Episcopal Church, 150 Magnolia Ave., 2 story, brick, steel and stone, plain foundation, Boulevard and Tonnelle Ave., to E. M. Johnson, 198 Lexington Ave. Archts. est. $300,000. Noted Apr. 23.

Pa., Greensburg—SCHOOL—Bd. Educ., 3 story and basement, 145 x 290 ft., brick and steel school, to Natl. Concrete Fireproofing Co., Union-Mortgage Bldg., Cleveland, O., $436,000; swimming pool, to Hasbrouch Co., 299 Madison Ave., New York City, $18,235.

Pa., Homestead—CHURCH and SCHOOL—St. Michaels Roman Catholic Congregation, general contract 2 story and basement, 90 x 103 ft., limestone and brick, 9th and Library Sts., to E. Wehr, 625 Hiland Bldg., Pittsburgh. Archts. est. $150,000. Noted May 28.

Pa., Milton—CHURCH—Zion Lutheran Congregation, general contract 2 story and basement, 30 x 140 ft., brick, tile and stone, to Berwick Lumber & Supply Co., Berwick, $115,000. Noted Jan. 8.

Pa., Pittsburgh — SCHOOL — Bd. Educ., Fulton Bldg., general contract 3 story and basement addition to Gladstone School, to Pittsburgh Eng. & Constr. Co., Homewood Ave., $345,943; plumbing, to G. H. Soffel Co., 127 4th Ave., $37,560; heating and ventilating, to Steel City Heating & Plumbing Co., 627 Dusquesne Way, $54,832.

Pa., Point Marion—SCHOOL—Bd. Educ., general contract 2 story and basement, brick, steel and concrete school, to Coombs & Baker Constr. Co., Morgantown, W. Va. Archts. est. $175,000. Noted May 7.

O., New Lexington—HIGH SCHOOL—O. N. Stung, clk. Bd. Educ., May 12, 3 story and basement, 200 x 200 ft., rein.-con. and brick high school, to Chappelear & Gardner, Portsmouth, $156,110.

Mo., Kansas City — CHURCH — Sixth Church of Christ Sciences, 2 story and basement, 106 x 111 ft., native and cut stone church, to Lishear-Owens Constr. Co., 447 East 55th St. Archts. est. $225,000. Noted Mar. 19.

Mo., Kansas City — HIGH SCHOOL — C. A. Smith, archt., 800 Finance Bldg., R. A. Long High School, 4 story and basement, 66 x 219 ft., brick and stone, to Collins Bros., 1600 Grand Ave., for Bd. Educ. $291,475.

Calif., Compton—ADMINISTRATION—Compton Union High School Dist., general contract 2 story, 188 x 220 ft., brick, administration building, to Davison & Thompson, 361 Walnut Ave., Long Beach, $252,847. Noted May 77.

Ont., Toronto — CHURCH — St. Peters Roman Catholic Church, Bathurst St., general contract 1 story and basement, 85 x 160 ft., rein.-con., brick and steel, plain foundation, to H. N. Dancy & Son, 22 College St. Archts. est. $175,000. Noted Apr. 23.

Federal Government Work

BIDS DESIRED

Mass., Lowell—Post Office—July 3, by Treas. Dept. at office Supervising Archt., Wash., D. C., extending post office, here.

Mass., Lynn—Remodeling—July 2, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling post office, here.

Mass., Nantucket—Jetty—June 26, by U. S. Engineer Office, Providence, R. I., repairing east jetty at Nantucket Harbor, here.; adv. E. N.-R. June 4.

R. I., Providence—Remodeling—July 9, by Treas. Dept. at office Supervision Archt., Wash., D. C., remodeling and enlarging post office, court house, and custom house, here; adv. E. N.-R. June 4.

Conn., Bridgeport—Dredging—July 3, by U. S. Engineer Office, Providence, R. I., dredging in Bridgeport Harbor, here; adv. E. N.-R. June 4.

N. Y., Brooklyn—Paving—Spec. 5115—June 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving, etc., at Naval Hospital, here; adv. E. N.-R. June 4.

N. Y., New York—Remodeling—July 1, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling barge office, here.

Pa., Phila.—Remodeling—Spec. 5123—June 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling building, here.

Pa., Phila.—Paving—Spec. 5109—June 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving at Naval Home, here.

D. C., Wash.—Water System—Spec. 5104—June 17, by Bureau Yards & Docks, Navy Dept., addition to water system, here. Noted May 28.

Va., Quantico—Dredging—Spec. 5125—June 22, by Bureau Yards & Docks, Navy Dept. Wash., D. C., dredging at Marine Barracks, here.

S. C., Parris Island—Boilers—Spec. 5118—June 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing boilers, etc. at Marine Barracks, here; adv. E. N.-R. June 4.

S. C., Parris Island—Power Plant Equipment—June 22, by Bureau Yards & Docks, Navy Dept., Wash., D. C., power plant equipment, at Marine Barracks, here; adv. E. N.-R. June 4.

Fla., Jacksonville—Pipe Line Dredge—June 19, by U. S. Engineer Office, Room 2805, Munitions Bldg., Wash., D. C., steam driven 20 in. pipe line dredge; adv. E. N.-R. June 4.

Montana—Road—June 11, by Bureau Pub. Rds., 607 Smead Simond Bldg., Missoula, improving 6.25 mi. Fortine-Olney Sect. Natl. Forest Rd., Flathead Co.; and 3.4 mi. Yellowstone Trail, Crystal Springs Sect. Natl. Forest Rd., Mineral Co.

Montana — Road — June 12, by Bureau Pub. Rds., 605 Smead-Simons Bldg., Missoula, improving 8.8 mi. Y. G. B. line highway, Kibby Canyon, Riceville, Cascade Co.; also 6.6 mi. West Gallatin Park Boundary Sect., Natl. Forest Rd., Gallatin Co.

Ark., Hot Springs—Addition—June 11, at office Constructing Quartermaster, Army and Navy General Hospital, additions to mess hall, library, and new cold storage and laboratory.

Idaho—Road—June 12, by Bureau Pub. Rds., 316 Post Office Bldg., Portland, Ore., grading, etc., 2.9 mi. Elk City Highway, Cougar Creek Sect., Idaho Co., here.

Washington—Roads—June 11, by C. H. Purcell, dist. engr. Bureau Pub. Rds., 316 Post Office Bldg., Portland, Ore., grading and crushed gravel surfacing 4,200 cu.yd. Olympic Highway, May Creek Sect., Jefferson and Clallam Counties, here. C. H. Purcell, dist. engr.

Oregon—Roads—June 11, by C. H. Purcell, dist. engr. Bureau Pub. Rds., 316 Post Office Bldg., Portland, grading and crushed gravel surfacing 13.9 mi. Scottsburg-Reedsport Natl. Forest Rd., Douglas Co. C. H. Purcell, dist. engr.

Oregon—Road—June 11, by Bureau Pub. Rds., 316 Post Office Bldg., Portland, surfacing Prairie City-Unity Sect., Grant and Baker Counties.

Oregon—Road—June 12, by Bureau Pub. Rds., 316 Post Office Bldg., Portland, improving Dalles-California Natl. Forest Rd., Klamath Co.

Oregon—Roads—June 12, by C. H. Purcell, dist. engr. Bureau Pub. Rds., 316 Post Office Bldg., Portland, crushed gravel or crushed rock surfacing 5.4 mi. Waldo-State line Natl. Forest Rd., Josephine Co.; and grading and crushed rock surfacing 11.35 mi. Alsea River-Scott Creek Natl. Forest Rd., Lincoln Co. C. H. Purcell, dist. engr.

BIDS RECEIVED

S. C., Parris Island—Monument—Spec. 5114—Bureau Yards & Docks, Navy Dept., Wash., D. C. monument at Fort Charles, here, from McNeel Marble Co., Marietta, Ga., $5,350. Noted May 14.

Fla., Lake City—Hospital—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., mess hall, kitchen and garage, at State Hospital 63, here, from B. L. Lucas Co., Raeford, N. C., $103,495. Noted Apr. 30.

Fla., Pensacola — Waterworks — Spec. 5054—Bureau Yards & Docks, Navy Dept., Wash., D. C., waterworks system, here, from J. B. McCrary Co., 1408 Citizens Bank Bldg., Atlanta, Ga., (1) $138,678, (1a) $145,392 (1b) $125,560 (2) $83,421 (3) $28,400 (4) $26,857 (4a) $33,571 (4b) $13,739 (5a) $31.50 (5b) $12. (5c) here, $6.80 (6a) $39.30 (6b) $15.10 (6c) $8.50 (7) $15.25 (8) deduct $4,800 (9) deduct $2,900 (10) $1,015. Noted May 14.

Mich., Detroit — Boring — U. S. Lake Survey Office, Old Customhouse, borings in St. Lawrence River, from Clarke Bros., Maysville, Ky., $33,185. Noted Apr. 2.

CONTRACTS AWARDED

N. Y., Brooklyn — Water Tank — Spec. 5090—Bureau Yards & Docks, Navy Dept., Wash., D. C., sprinkler system, here, to Austin Eng. Co., 121 West 42nd St. New York City, $9,619 (120 days). Noted May 28.

N. Y., Brooklyn—Wharf Repairs—Spec. 5080—Bureau Yards & Docks, Navy Dept., Wash., D. C., wharf repairs, here, to General Contg. & Eng. Co., 40 Rector St., New York City, $11,011, (75 days). Noted May 28.

Tenn., Memphis—Rip Rap—Mississippi River Dist., Comm., 1006 McCall Bldg., 12,000 cu.yd. rip rap, to A. Stone Co., Nellys, Mo., $17,400

Federal Government Work (Continued)

Ky., Louisville—Metal Work—U. S. Engineer Office, P. O. Box 72, metal work for Beartrap Weirs, for Dam 45, Ohio River, Lots A, C and D, to J. and J. B. Milholland Co., 714 5th Ave., Pittsburgh, Pa., $5,029, Lot B, to Amer. Car & Fdry. Co., Jeffersonville, Ind., $14,589. Noted May 21.

Ky., Louisville — Steel, etc. — U. S. Engineer Office, P. O. Box 72, structural steel, etc. for Dam 53, to C. Hegewald Co., New Albany, Ind., Lots A and B $12,789; to Amer. Car & Fdry. Co., Jeffersonville, Ind., Lots C and E $8,355; to J. and J. B. Milholland Co., 714 5th Ave., Pittsburgh, Pa., Lots D and F $2,445. Noted Apr. 30.

Ill., Rock Island—Towboat—U. S. Engineer Office, one steel hull for towboat Ellen, to Dravo Contg. Co., 302 Pennsylvania Ave., Pittsburgh, Pa., $29,675. Noted Apr. 23.

Unclassified

PROPOSED WORK

Playground—Somerville (Boston P. O.)—**Mass.**—Plans playground, Oliver and Glen Sts. $25,000. Engineer not selected.

Park—Newport, R. I.—Plans constructing Miantonomi Park and Tower as War Memorial. $60,000 funds to be raised by public subscription. Engineer not selected.

High Tension Line—Sharon, Pa.—Pennsylvania Ohio Power & Light Co., Sharon, plans high tension electric line, 10,000 kw. capacity.

Transmission Line — Georgia — Ware County Light & Power Co., Waycross, plans power line from Waycross to Blackshear. $35,000. F. C. Landers, Waycross, mgr.

Automobile Speedway—Tampa, Fla.—Tampa Speedway & Amusement Co., plans wood and steel tracks and grandstands for 1.25 mi. automobile speedway. $650,000. Address R. E. Hall, Court House, Miami.

Amusement Park—Detroit, Mich.—Michigan State Fair Assn., G. W. Dickinson, Secy., 815 Farwell Bldg., having tentative plans prepared by L. W. Fry, Ann Arbor, constructing amusement park, incl. swimming pool, etc. $400,000.

Generating Unit—Racine, Wis.—Bd. Pub. Wks., H. Nelson, comr., making plans additional generating unit to supply energy for street lighting. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., engrs.

Playgrounds—Boonville, Mo.—Election soon $25,000 bonds, playgrounds, etc.

Aviation Field—North Kansas City, Mo.—Aviation Com. of Chamber of Commerce, Kansas City, P. G. Hillgardner, chn., making plans grading and shaping portions 300 acre tract for aviation field, constructing as many metal hangars as are deemed necessary, 10th St. and Missouri River, here. Holden, Ferris & Barnes, 1016 Baltimore Ave., Kansas City, engrs.

Land Development—Wichita Falls, Tex.—W. B. Hamilton & N. H. Martin, Wichita Falls, plan developing residential district along Wichita Valley R.R. tracks south of here. $40,000. Hare & Hare, Huntzinger Bldg., Kansas City, Mo., engrs.

Gas Line — Oklahoma — J. Pfolzgraf, Potean, plans 75,000 ft. 4 in. gas line from Potean to Heavener, and a distribution system at Heavener. $35,000.

Transmission Line—Oklahoma—City of Hastings voted $250,000 bonds, 17 mi. 13,200 volt transmission line from Walters to Hastings, and distribution system at Hastings. Engineer not selected.

Transmission Line Material—Vici, Okla.—Town of Vici election June 9, $100,000 bonds, for high line from Leedey. Gantt Baker Co., 1116 West Main St., Oklahoma City, engrs.

Swimming Pools—Los Angeles, Calif.—See "Buildings—Commercial."

Tunnel—Los Angeles, Calif.—See "Streets and Roads."

Gas Main—Vallejo, Calif.—Pacific Gas & Electric Co., Pacific Gas & Electric Bldg., San Francisco, appropriated $30,000 funds high pressure gas main from here to Mare Island Navy Yard. Private plans.

Power Distribution — Grimsby, Ont. — Plans hydro-electric lighting power distribution system. $50,000.

BIDS DESIRED

Heating and Ventilating — Bridgewater, Mass.—June 5, by Dept. Educ., State House, Boston, separate bids heating and ventilating, plumbing and electrical work in training school building, here, $25,000; heating and ventilating system in State Normal School, here, $45,000. G. Lowell, 12 West St., Boston, archt.

Subway—New York, N. Y.—June 12, by Bd. Transportation, 49 Lafayette St., constructing Route 78, Sect. 2, in Central Park West from 89th to 100th Sts.

Transmission Line—Bryson City, N. C.—June 8, by Bd. Aldermen, H. Kephart, chn., constructing 5.34 mi. transmission line, incl. 32 acres clearing, 120 poles 35 ft. long, 40 poles 40 ft. long, 5.34 mi. wire 3 phase, 23,000 volt etc.

Retaining Wall—Sanford, Fla.—June 15, by City Comn. 4,065 lin.ft. concrete sheet pile retaining wall, for East Side Bulkhead Dist., 2,000 cu.yd. concrete, 377,000 lbs. reinforcing bars, 325,000 cu.yd. sand fill. $100,000. W. B. Williams, city mgr.

Turbine, Generator, etc.—Janesville, Wis.—Mead & Seastone, engrs., Journal Bldg., Madison, taking bids 1 new vertical unit, 240 hp. turbine direct connected to one 200 kva. generator, governor, etc., for plant, here, for Wisconsin Power & Light Co., Gay Bldg., Madison.

Bulkhead—Port Washington, Wis.—See "Sewers."

Foundations — Sioux City, Ia. — See "Buildings—Industrial."

Grain Elevator—Houston, Tex.—June 18, by H. L. Washburn, aud. Harris Co., 1,200,000 bu. grain elevator, main building, 62 x 142 ft., 94 ft. high, incl. 56 rein.-con. bins, 99 ft. high, 17 ft. diam., rein.-con. and steel, for Turning Basin & Navigation Dists. $1,000,000. J. S. Metcalf, 108 South La Salle Bldg., Chicago, Ill., and J. A. Schiller, Court House, Houston, engrs.

Breakwater—Long Beach, Calif.—June 26, at office C. H. Windham, city mgr., 6,984 lin.ft. rubble mound breakwater, 4,242 lin.ft. rubble mound moles and 2,028 lin. ft. rubble mound bulkhead. E. N. Johnson, consult. engr.

Lighthouse—Leamington, Ont.—June 14 by Dept. Marine & Fisheries, Ottawa, light house, incl. cribwork pier, 70 x 70 ft. o. pile foundation, rein.-con. superstructure, 30 x 30 ft. combined fog alarm and dwelling. $100,000. L. E. Cote, c/o owner, engr.

BIDS RECEIVED

Station Finish—New York, N. Y.—Bd. Transportation, 49 Lafayette St., May 27, station finish at 5th Ave. Sta., from Werner-Mitchell Co., 1 De Kalb Ave., Brooklyn, $118,500. Noted May 28.

Swimming Pool—Erie, Pa.—See "Buildings—Commercial"

Sea Wall—Gulfport, Miss.—Bd. Supervs. Harrison Co., May 27, 14 mi. sea wall along gulf coast, from McDougall Constr. Co., Atlanta, Ga., $1,956,439; Wood Bros. Constr. Co., Lincoln, Nebr., $1,992,175. Noted May 7.

Stadium—Madison, Wis.—W. R. Winckler, city clk., May 22, rein.-con. and steel stadium at Stevens Athletic Field, from G. Nelson, 1117 West Johnson St., $45,654. Engrs. est. $50,000. Noted May 14.

Bracket Lights—St. Paul, Minn.—H. W. Austin, city purch. agt., 224 400 candle-power bracket lights on standard trolley poles in West 7th St. between Seven Corners and Tuscarora Ave., from Acme Electric Co., 1085 West 7th St., $53,334.

Pipe Line—Texas—United Central Oil Corp., Laredo and Mirando, making plans 90 mi. 6 in. oil line from Mirando oil fields to point on coast. $500,000. Private plans.

Plumbing and Heating—Houston, Tex.—See "Buildings—Educational, Religious."

Street Lighting System—Oakland, Calif.—Ornamental lighting system around Lake Merritt, from Central Electric Co., 179 Minna St., San Francisco, $64,500. Noted May 21.

CONTRACTS AWARDED

Playground — Lowell, Mass. — Bd. Park Comrs., J. W. Kerman, chn., City Hall, constructing and developing Shedd Park as public park and playground, to F. F. Meloy, Wyman's Exch. Bldg., $67,759.

Borings—New York—Bd. Transportation, 49 Lafayette St., borings along Cranberry and Clinton Sts., etc., in Brooklyn Boro, and along Van Alst, Nott and Jackson Aves., in Queens Boro, Agreement "DU," to Osborne Drilling Co., 120 Liberty St., New York City, $30,058. Noted May 28.

Athletic Field and Field House—Brooklyn, N. Y.—Bd. of Educ., 500 Park Ave., New York City, athletic field and field house, Pennsylvania and New Jersey Aves., at Thomas Jefferson High School, here, to Hayson Constr. Co., Arverne, $139,247. Noted Apr. 23.

Bulkhead, etc. — New York, N. Y. — M. Cosgrove, comr. Docks, Pier A, (1) removing existing old structures (2) dredging and disposal of material (3) new bulkhead platform with wall (4) riprap for bulkhead (5) platform for East 139th and 140th Sts. dump, Contr. 1852-A, to A. M. Hazell, Inc., 26 Cortlandt St. (1) $1,275; to H. Steers Inc., 17 Battery Pl., (2) $31,900 (4) $10,800 (5) $90,845; to A. N. Spooner, Pier 11, North River, (3) $40,270. Noted May 21.

Subway — New York, N. Y. — Bd. Transportation, 49 Lafayette St., Washington Heights subway in Central Park West between 78th and 88th Sts., to A. A. Johnson Corp., 3rd St. and West Ave., Long Island City, $3,651,000; installing tracks, etc., for portion of 148th St. and Lenox Ave., Yard, to McElroy & Kerwin, 316 Flatbush Ave., Brooklyn, $73,915. Noted May 21 and 28.

Swimming Pool—Greensburg, Pa.—See "Buildings—Educational, Religious."

Hydro-Electric Development — Saluda, N. C.—Blue Ridge Power Co., Spartanburg, S. C., hydro-electric development, incl. earth concrete dam 172 ft. high, 7,600 ft. and 6,600 ft. tunnels, power house substructure, etc., to Rinehart & Dennis Co., Inc., Natl. Bank Bldg., Charlottesville, Va., est. $2,000,000. Noted Jan. 22.

Swimming Pool—Anderson, Ind.—City, 120 x 240 ft., swimming pool, rein.-con., to T. P. Kelly & Sons, Anderson, $66,000.

Transmission Line—Wisconsin—Wisconsin Power & Light Co., Gay Bldg., Madison, will build transmission line between Dalton and Montello, by day labor. $50,000. Private plans.

Stadium—Des Moines, Ia.—Drake University, 25th and University Sts., general contract 2 story and basement, 150 x 212 ft., rein.-con. stadium, on campus, to C. Weitz Sons, 715 Mulberry St., $203,387. Noted May 28.

Oil Pipe Line—Arkansas—Standard Pipe Line Co., Reymond Bldg., Shreveport, La., will build 90 mi. 10-in. oil pipe line with 6 intermediate stations between Smackover and Grandover, by day labor.

Pipe Line—Texas—Houston Pipe Line Co., c/o C. B. McKinney, genl. mgr., Houston, 96 mi. 16 and 18 in. gas pipe line from Live Oak Co. to Edna, and 54 mi. 12¾ in. branch line from Edna to Gulf, to E. A. MacPherson, Ft. Worth, approximately $3,600,000.

Wharf Improvements—Galveston, Tex.—Galveston Wharf Co., 2324 Ave. B, will build new rein.-con. piers and addition to shed on Wharf 27, by day labor. Approximately $25,000. R. Siers, 2324 Ave. B, engr.

Transmission Line — Oklahoma — Oklahoma Gas & Electric Co., 112 North Bway, Oklahoma City, will build 20 mi., 13,200 v. electric transmission line from Meeker to Harrah, by day labor. $40,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

Arena — San Francisco, Calif. — Mission Athletic Club, c/o Powers & Ahnden, archts., 460 Montgomery St., fight arena, rein.-con., Mission St., to Cahill Bros., 55 New Montgomery St., approximately $250,000.

Materials

PROPOSED WORK

Road Oil—Minneapolis, Minn.—A. P. Erickson, aud. Hennepin Co., soon takes bids 200,000 gal. road oil. Former bids rejected.

BIDS DESIRED

Paving Blocks—New York, N. Y.—June 9, by Bd. Purchase, granite and creosoted wood paving blocks, to Dept. Plants & Structures.

Roofing Materials, etc.—New York, N. Y.—June 12, by J. E. Bowe, comr. Purchase, Municipal Bldg., roofing, highway and building materials to Police Dept., Depts. Correction, Parks, Plants & Structures, Water Supply, Gas & Electricity.

Ties and Timber — New York, N. Y. — June 12, by Bd. Transportation, 49 Lafayette St., ties and timber for Westchester Ave. Yard.

Asphaltic Oil, etc.—Trenton, N. J.—June 15, by State Hy. Dept., Trenton, 137,385 gal. asphaltic oil, and 332,210 gal. lignin binder. A. L. Grover, secy.; adv. E. N.-R. June 4.

Asphalt—Cleveland, O.—June 10, by Bd. Comrs. Cuyahoga Co., 900 tons Kentucky rock asphalt.

CONTRACTS AWARDED

Road Oil—Hartford, Conn.—City, 300,000 gal. 45 per cent and 30,000 gal. 65 per cent asphaltic base road oil in tank cars, f.o.b. Hartford, to Alden, Speares & Sons Co., 156 6th St., Cambridge, Mass., $0.66 and $0.69 per gal. respectively. Noted May 7.

Road Materials, etc.—Newton, N. J.—Bd. Freeholders Sussex Co., 10,000 gal. tarvia, to Dosch King Co., Montclair, $1,467; 5,000 gal. asphaltic oil, to Franklin Contg. Co., 20 Washington Pl., Newark, $885; 532 ft. corrugated pipe, to Good Roads Mchy. Co., 50 Church St., New York City, $479; 75 tons calcium chloride, to Dow Chemical Co., 90 West St., New York City, $2,085.

Road Oil — St. Paul, Minn. — Supervs. Ramsey Co., 300,000 gal. road oil, to W. H. Barber Co., 1501 Franklin Ave. S. E., Minneapolis, $18,630.

CONSTRUCTION NEWS

Engineering News-Record, June 11, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Schools, Kansas City, Mo., plans three buildings and additions to two, $5,000,000.

Apartment, Los Angeles, Calif., A. C. Vaughan had preliminary plans prepared, $2,500,000.

Bridge, Kansas City, Mo., plans bond election for rein-con. bridge, $2,000,000.

Bridge, dredging and improvement on lake front, Cleveland, O., city plans general improvement, $2,000,000.

Sewer, Portland, Ore., plans intercepting sewer, sewage plant and harbor wall, $1,936,620.

County Building, Hartford, Conn., Comnrs. of Hartford Co. plan new county building, $1,500,000.

Cotton exchange, Dallas, Texas, R. L. Dixon plans building, $1,500,000.

Roads and bridges, Jacksonville, Fla., Duval Co. plans bond election, $1,500,000.

Office, Miami, Fla., Shoreland Co. plans office building, $1,000,000.

Hotel, Sarasota, Fla., Clas, Shepherd & Clas, archts., making preliminary plans, $1,000,000.

Bids Wanted On Big Jobs

Grain elevator June 17, Houston, Tex., J. S. Metcalf Co., Chicago, Ill., $1,000,000.

Apartment, San Antonio, Tex., Kelwood Co. soon takes bids, $1,000,000.

High School, June 29, York, Pa., Bd. of Educ. $1,000,000.

Temple, June 24, Philadelphia, Pa., H. W. Custor, archt. for Scottish Rite Consistory, $1,000,000.

Large Contracts Let During Week

Hotel, New York, N. Y., Lapidus Eng. Co., work done by separate contract, $3,000,000.

Home, Maplewood, N. J., Marcus Ward Home to Whitney Co., $2,000,000.

Bridge, Portland, Ore., Comrs. of Multnomah Co. to Booth & Pomeroy, Portland, $1,135,843; approaches and retaining wall to Lindstrom & Feigensen, Portland, $505,500.

Temple, New Orleans, La., total of separate contracts, $1,625,352.

Hospital, Baltimore, Md., Hebrews, Hospital and Asylum Assn. to M. A. Long Co., $1,000,000.

Sea wall, Gulfport, Miss., Bd. of Supvrs. of Harrison Co., 13 mi. of concrete sea wall along gulf coast to Wood Bros. Constr. Co., Lincoln, Nebr., $1,947,175.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
June 15	Tuscaloosa, Ala.	May 21
June 15	Manchester, N. H.	June 4
June 15	Long Island City, N. Y.	June 11
June 15	New York, N. Y.	June 11
June 15	Fenton, Mich.	June 11
June 15	Diagonal, Ia.	June 11
June 17	Willard, N. Y.	May 28
	Adv. May 28 to June 11.	
June 17	Raymond, Wash.	June 11
June 17	Cleveland, O.	June 11
June 17	Brooklyn, N. Y.	June 11
June 17	New York, N. Y.	June 11
June 17	Forest, Ont.	June 11
June 17	Baltimore, Md.	June 11
June 18	Mansfield, O.	June 4
June 18	Minneapolis, Minn.	June 11
June 22	Montgomery, Minn.	June 11
June 22	Detroit, Mich.	June 11
June 22	Crystal Beach, Ont.	June 11
June 24	Greenville, S. C.	May 21
	Adv. May 21 to June 11.	
June 24	Minneapolis, Minn.	June 11
June 25	Marengo, Ill.	June 11
	Adv. June 4 and 11.	
June 25	Medina, O.	June 4
June 29	Ronceverte, W. Va.	June 11
	Adv. June 11.	
June 30	Macon, Ga.	June 4
July 1	Hartford, Conn.	June 11
	Adv. June 11.	
July 1	Fairfield, Ill.	June 11
July 20	Oakland, Calif.	June 4
	SEWERS	
June 15	New Castle, Pa.	May 28
June 15	Manchester, N. H.	June 4
	Adv. June 4 and 11.	
June 15	Centerville, Ia.	June 4
June 15	Boston, Mass.	June 11
June 15	Euclid, O.	June 11
June 15	Watertown, Wis.	June 11
June 15	Highland Park (branch New Brunswick), N. J.	June 11
June 16	Boston, Mass.	June 11
June 16	New York, N. Y.	June 11
June 16	Salisbury, Md.	May 14
	Adv. May 14 to June 11.	
June 16	Clewiston, Fla.	May 21
June 16	Wheaton, Ill.	May 28
June 16	Dickson, Tenn.	June 4
June 16	Centerville, Ia.	June 4
June 16	Knoxville, Tenn.	June 11
June 17	Cleveland, O.	June 11
June 17	Long Island City, N. Y.	June 11
June 18	Brighton (Ind. Sta. Rochester), N. Y.	June 4
	Adv. June 4 and 11.	
June 19	Baltimore, Md.	June 4
June 22	Catonsville (Br. Baltimore), Md.	June 4
	Adv. June 4 and 11.	
June 23	Tampa, Fla.	June 11
June 24	Woodridge, N. J.	June 11
	Adv. June 11.	
June 24	Dedham, Mass.	June 11
June 25	Kansas City, Mo.	June 4
	Adv. June 4 and 11.	
June 25	Medina, O.	June 4
June 26	Tampa, Fla.	June 11
June 30	Louisville, Ky.	June 4
	Adv. June 4 and 11.	
June 30	Wallingford, Conn.	June 11
	Adv. June 11.	
	BRIDGES	
June 12	Boston, Mass.	June 11
June 15	New Jersey	June 4
	Adv. June 4 and 11.	
June 15	Pismo (Pismo Beach P. O.), Calif.	June 4
June 15	Oklahoma	June 11
June 16	Louisiana	May 28
June 16	Minnesota	June 4
June 17	Alabama	May 21
June 22	California	June 4
June 22	New Jersey	June 4
	Adv. June 4 and 11.	
June 23	Lake George, N. Y.	June 11
	Adv. June 11.	
June 23	Washington	June 11
June 23	Illinois	June 11
June 24	Rhode Island	June 11
	Adv. June 11.	
June 24	Aberdeen, Wash.	June 11
June 26	Bainbridge, Ga.	June 11
June 30	Tampa, Fla.	May 28
July 2	North Adams, Mass.	June 11
	Adv. June 11.	
July 8	Alabama	June 4
	DAM	
June 30	Ottawa, Ont.	June 11
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
June 15	Leesburg, Fla.	May 14
June 15	New York, N. Y.	June 11
July 7	Albany, N. Y.	June 11
	Adv. June 11.	
	STREETS AND ROADS	
June 14	Moundsville, W. Va.	May 28
June 15	Anderson, Ind.	May 28
June 15	Crestview, Fla.	May 28
June 15	Minneapolis, Minn.	May 28
June 15	California	June 4
June 15	New Jersey	June 4
	Adv. June 4 and 11.	
June 15	Richmond, Tex.	June 4
June 15	Kirksville, Mo.	June 4
June 15	Akron, O.	June 4
June 15	Oklahoma	June 4
June 15	Drumright, Okla.	June 4
June 15	Yonkers, N. Y.	June 11
	Adv. June 11.	
June 15	Michigan	June 11
June 15	Port Hope, Ont.	June 11
June 15	Alma, Neb.	June 11
June 15	Oklahoma	June 11
June 15	Waynesboro, Miss.	June 11
June 15	Muncie, Ind.	June 11
June 15	Toronto, Ont.	June 11
June 15	Royal Oak, Mich.	June 11
June 16	Northport, N. Y.	June 11
June 16	Hopewell, N. J.	June 11
June 16	Minnesota	June 4
June 16	Hudson, N. Y.	June 4
	Adv. June 4 and 11.	
June 16	Cheswick, Pa.	June 4
June 16	New York, N. Y.	June 11
June 16	Newton, Kan.	June 11
June 17	Phila., Pa.	May 21
June 17	Belvidere, N J.	June 4
	Adv. June 4 and 11.	
June 17	Baltimore, Md.	June 11
June 17	Port Huron, Mich.	June 11
June 17	St. George, N. Y.	June 11
June 17	Brooklyn, N. Y.	June 11
June 18	Mansfield, O.	June 4
June 18	Louisiana	June 4
June 18	Charleston, S. C.	June 11
June 18	Michigan	June 11
June 18	Kewanee, Ill.	June 11
June 19	Clinton, Okla.	June 11
June 19	Farmington, Mo.	May 28
June 19	North Dakota	June 11
June 20	Lakewood (Cleveland P. O.), O.	June 11
June 22	Los Angeles, Calif.	June 11
June 22	New Jersey	June 4
	Adv. June 4 and 11.	
June 22	California	June 4
June 22	Huntington, W. Va.	June 11
June 22	Stella, Neb.	June 11
June 23	Washington	June 11
June 23	Pennsylvania	June 11
	Adv. June 11.	
June 23	Illinois	June 11
June 25	Corinth, Miss.	June 11
	Adv. June 11.	
June 26	New York	June 4
	Adv. June 4 and 11.	
June 26	Georgia	June 11
June 28	Cudahy, Wis.	June 4
June 29	Akron, O.	June 11
June 29	Texas	June 11
June 30	St. Louis, Mo.	June 4
July 1	Deland, Fla.	June 4
	Adv. June 4 and 11.	

Bids Close		See Eng. News-Record
July 1	Delaware ..... Adv. June 11.	June 11
July 6	Fayetteville, W. Va.	June 11
July 8	Alabama	June 4

BUILDINGS—COMMERCIAL

June 13	McKeesport, Pa.	June 11
June 15	New York, N. Y.	June 4
June 15	Cleveland, O.	June 4
June 16	Newkirk, Okla.	May 28
June 16	Glen Gardner, N. J.	June 11
June 17	Marcy, N. Y.	May 28
June 17	Manchester, Conn.	June 4
June 17	Joliet, Ill.	June 11
June 19	New Brunswick, N. J.	June 11
June 20	Dayton, O.	June 4
June 23	Huntsville, Ala.	June 11
June 23	Woodbine, N. J.	June 11
June 24	Creedmoor (Jamaica P. O.), N. Y. ..... Adv. June 4 and 11.	June 4
June 24	Phila., Pa.	June 11
June 25	Dayton, O.	June 4
June 30	Olympia, Wash.	June 4
June 30	Rome, N. Y. ..... Adv. June 11.	June 11
June 30	Sonyea, N. Y. ..... Adv. June 11.	June 11
July 1	Kansas City, Mo.	June 11
July 1	Birmingham, Ala.	June 11
July 14	Phila., Pa.	Feb. 19
July 15	Brooklyn, N. Y.	May 21

BUILDINGS—EDUCATIONAL, RELIGIOUS

June 12	Phila., Pa.	June 11
June 16	Port Huron, Mich.	June 11
June 17	Baltimore, Md.	June 11
June 17	Los Angeles, Calif.	June 11
June 18	Eltingville (Sta. Staten Island), N. Y.	June 4
June 22	Longmont, Colo.	June 4
June 22	Raynham, Mass.	June 11
June 22	Cleveland Heights (Warrensville P. O.), O.	June 11
June 23	Johnston (mail Providence), R. I.	June 11
June 25	Eau Claire, Wis.	June 11
June 29	York, Pa.	June 11
June 30	Ellwood City, Pa.	June 11
June 30	Fergus Falls, Minn.	June 11
July 1	San Francisco, Calif.	May 28

FEDERAL GOVERNMENT WORK

June 15	Barge—Montgomery, Ala. ..... Adv. May 21 to June 11.	May 21
June 15	Road—Colorado	May 21
June 15	Road—Montana	May 28
June 15	Wall—San Juan, P. R.	June 11
June 16	Heating Plant—Mobile, Ala.	May 21
June 16	Electric Light Plant—Brunswick, Ga.	May 21
June 16	Fire Alarm System—Whipple Barracks, Ariz.	May 21
June 16	Cable, etc.—Whipple Barracks, Ariz.	May 21
June 16	Structures—Powell, Wyo.	May 28
June 17	Hospital and Quarters—New Orleans, La.	May 28
June 17	Heating System—New Orleans, La.	May 21
June 17	Paving, etc.—Brooklyn, N. Y. ..... Adv. June 4 and 11.	June 4
June 17	Water System—Wash., D. C.	June 4
June 17	Paving—Phila., Pa.	June 4
June 17	Remodeling—Phila., Pa.	June 4
June 17	Boilers—Parris Island, S. C. ..... Adv. June 4 and 11.	June 4
June 17	Garage—Lakehurst, N. J.	June 11
June 18	Quarters——Oceanport, N. J. ..... Adv. June 11.	June 11
June 18	Incinerator—New Orleans, La.	May 21
June 18	Pier—Rosebank, N. Y.	May 28
June 19	Remodeling—Norwich, Conn.	May 21
June 19	Pipe Line Dredge—Jacksonville, Fla. ..... Adv. June 4 and 11.	June 4
June 19	Road—New Mexico	June 11
June 19	Store—Hot Springs, Ark.	June 11
June 22	Storage Tanks—Pensacola, Fla.	June 11
June 22	Coal Bins—Quantico, Va.	June 11
June 22	Waterworks—Annapolis, Md. ..... Adv. June 11.	June 11
June 22	Post Office—Missoula, Mont.	May 28
June 22	Post Office—Holly Springs, Miss.	May 28
June 22	Power Plant Equipment—Parris Island, S. C. ..... Adv. June 4 and 11.	June 4
June 22	Dredging—Quantico, Va.	June 4
June 22	Trusses—Brooklyn, N. Y.	June 11
June 23	Sewers—Baltimore, Md.	May 28
June 23	Quarters—Memphis, Tenn.	May 28
June 24	Post Office, Paterson, N. J.	May 28
June 24	Post Office—Columbia, S. C. ..... Adv. June 11.	June 11
June 25	Post Office—New London, Conn.	May 28
June 25	Post Office—St. Petersburg, Fla.	May 28
June 26	Jetty—Nantucket, Miss. ..... Adv. May 28 and June 4.	June 4
June 30	Road—Ft. Bayard, N. M.	June 11
July 1	Remodeling—New York, N. Y.	June 4
July 2	Remodeling—Lynn, Mass.	June 4
July 3	Post Office—Lowell, Mass.	June 4
July 3	Dredging—Bridgeport, Conn. ..... Adv. June 4 and 11.	June 4
July 6	Remodeling—Saginaw, Mich.	June 11
July 7	Bridges, Florence, Ala. ..... Adv. May 21 to June 11.	May 28
July 7	Post Office—Clarksburg, W. Va. ..... Adv. June 11.	June 11
July 8	Post Office—Camden, Ark.	June 11
July 9	Remodeling—Providence, R. I.	June 4
July 10	Post Office—Franklin, Pa. ..... Adv. June 4 and 11.	June 11
July 20	Crane—Florence, Ala. ..... Adv. June 11.	June 11
July 29	Hospital—Canacao, P. I.	May 21

UNCLASSIFIED

June 12	Subway—New York, N. Y.	June 4
June 12	Stadium—Phila., Pa.	June 11
June 13	Lighthouse—Leamington, Ont.	June 4
June 15	Retaining Wall, etc.—Sanford, Fla.	June 4
June 16	Electrical and Refrigerating Equipment — New York, N. Y.	May 21
June 16	Pier—Burlington, Ont.	June 11
June 17	Grain Elevator—Houston, Tex.	June 11
June 17	Heating System—Geneva, N. Y.	May 21
June 17	Overhead Crossing—Inverness, Fla.	June 11
June 18	Grain Elevator—Houston, Tex.	June 4
June 19	Causeway—Dallas, Tex.	June 11
June 19	Subway — New York, N. Y.	June 11
June 24	Sanitary Work—Wingdale, N. Y. ..... Adv. June 4 and 11.	June 11
June 26	Breakwater—Long Beach, Calif.	June 4

MATERIALS

June 12	Roofing Materials, etc.—New York, N. Y.	June 4
June 12	Ties and Timber—New York, N. Y.	June 4
June 15	Asphaltic Oil, etc.—Trenton, N. J. ..... Adv. June 4 and 11.	June 4
June 15	Lime and Brick—Providence, R. I.	June 11
June 24	Drain Tile — Detroit, Mich.	June 11

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Fla., New Smyrna—Plans extending and bettering water plant, and 5.5 mi. mains, etc., in various streets. W. C. Chowning, mayor.

Fla., St. Cloud—Voted $185,000 bonds extending water system. J. B. Collins, city clk.

Miss., Jackson — Voted $110,000 bonds for waterworks. P. A. O'Brien, City Hall, city engr. M. L. Culley, Jackson, consult. engr.

La., Augurs—Voted $37,500 bonds, mains and distributing system. C. D. Evans, 309 Levy Bldg., Shreveport, engr. Noted May 7.

O., Euclid—Takes bids in summer, mains in Maydale, Roberts, Kenison and Beckford Aves., East 215th 214th, 223rd, 224th, 225th and 226th Sts. $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Mich., Iron Mountain—Election June 15, $150,000 bonds to complete filtration plant, extending mains, water pipe line Chapin mine to Lake Antoine, etc. F. W. Hartman, city engr.

Wis., Hillsboro — A. Webster, city clk., making plans waterworks. $60,000. H. E. French, Baraboo, engr. Noted May 21.

Wis., Manitowoc — A. H. Zander, city clk., making plans 36 in. intake extending into Lake Michigan, approximately 12 ft. deep. $70,000. F. L. Alter, City Hall, engr.

Minn., Duluth — Duluth Water & Light Dept. plans constructing concrete cover for West Duluth reservoir, $120,000; completing Arlington Ave. reservoir, $15,000; approximately 6 mi. water and gas mains, $168,285. D. A. Reed, mgr.

Neb., Greenwood — Takes bids about July 1, waterworks and distribution system. $24,000 bonds voted. Grant, Fulton & Letton, 525 South 13th St., Lincoln, engrs. Noted May 28.

Mo., De Soto—Election June 16 $28,500 bonds waterworks and distribution system.

Mo., Ironton — Election soon $40,000 bonds, waterworks and distribution system. J. P. Davis, Jefferson City, engr.

Mo., Republic—Making preliminary plans pumping equipment, tank on tower, distribution mains, etc. in various streets. $40,000. W. S. Merkle, 414 North 12th St., St. Louis, engr.

Mo., Senath—Making preliminary plans waterworks and distribution system. $35,000. B. O. Bennett, Caruthersville, engr.

Tex., Abilene—Soon takes bids filtration and purification plant. $150,000. O. K. Hobbs, city engr.

Tex., Brownwood — Plans enlarging old dam and constructing new one, impounding 15,000,000 cu.yd. water, $100,000 or more. Address City Engineer.

Tex., Comanche—Voted $50,000 additional bonds, for waterworks improvements. J. B. Hawley, Cotton Exch. Bldg., Ft. Worth, engr. Noted Apr. 16.

Tex., Naples — Election soon $45,000 bonds, for waterworks. E. L. Dalton, 319 Wilson Bldg., Dallas, engr.

Tex., San Antonio — State making plans new waterworks at Southwestern Insane Asylum, South Loop, incl. mains, well and pumping equipment, here. $30,000. Phelps & De Wees, Gunter Bldg., engrs. Noted Apr. 23.

Tex., Vernon—City, c/o H. Mason, mayor, takes bids about July 25, waterworks improvements, incl. sinking well, to develop supply of not less than 1 m.g. per day, pumps, etc. Former bids rejected. $30,000. Engineer not announced.

Okla., Ada — Making plans waterworks improvements. $75,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Okla., Davenport—Election June 16, $33,000 bonds for new waterworks, incl. deep well, tank, motor driven pump, valves, hydrants, and 19,400 ft. 2- to 6-in. c.i. mains, etc. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Okla., Norman — Voted $100,000 bonds for waterworks extensions. F. Cobb, City Hall, engr. Noted May 14.

Okla., Purcell—Made preliminary plans new well, pump, and 500,000 gal. concrete reservoir. $15,000. G. F. Jones, Purcell, engr.

BIDS DESIRED

Conn., Hartford—July 1, by Bd. Water Comrs., Municipal Bldg., 9 m.g. covered filtered water reservoir and appurtenances. C. M. Saville, Pilgard Bldg., 1026 Main St., mgr. and ch. engr.; adv. E. N.-R. June 11.

N. Y., Brooklyn — June 17, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Glenwood Rd., Ridge Crest Terrace, Delamere, Elmore, Kenmore and Mansfield Places, De-Koven and Wellington Courts, Belmont, Homecrest, New York, Sheridan and 12th Aves., Avenues G, H, O, P, T, U and V, Crystal, Portal, 59th, 61st, 62nd, 63rd, 65th, 74th, 76th, East 7th, 12th, 14th, 16th, 17th, 18th, 19th, 22nd, 56th, 57th, 83rd, 84th and West 6th Sts., here.

N. Y., Long Island City — Jun 15, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Middleburg, 2nd and 15th Aves., here.

N. Y., New York — June 15, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Astor, Bronxwood, Dyre, and East Tremont Aves., etc., Bronx Boro.

N. Y., New York — June 15, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Cummings, West 134th and 187th Sts., etc., Manhattan Boro.

N. Y., New York — June 17, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Grand Concourse, Arlington, Barnes, Jerome, Ludlow, Park, Sheridan, Tryon, and Vielle Aves., Worthern, East 149th, 168th, 174th, 189th, 190th and West 176th Sts.

Md., Baltimore — June 17 (extended date), by Bd. Awards, superstructures of chemical, filter and shelter buildings, pump-

Waterworks (Continued)

ing station and garage, at Montebello Ave. filters, Harford Rd. and 33rd St. V. B. Siems, City Hall, water engr. Noted June 4.

W. Va., Ronceverte—June 29, by City, at office A. S. Woodhouse, city clk., waterworks improvements, incl. 500,000 gal. filter plant, etc. H. K. Bell, 418 Hernando Bldg., Lexington, Ky., engr.; adv. E. N.-R. June 11.

O., Cleveland—June 17, by Comrs. Cuyahoga Co., 3,700 lin.ft. 12 in. c.i. mains in Lee and Harvard Rds., to Miles Ave. To exceed $25,000. F. Williams, Court House, engr.

Mich., Detroit—June 22, by Dept. Purchase & Supplies, 710 Marquette Bldg., five hundred 6 in. Detroit Standard gate valves, and five hundred 6 in. double standard Detroit fire hydrants, for Bd. Water Commissioners.

Mich., Fenton — June 15, by F. A. Hagedorn, village clk., 4,475 ft. 4- to 6-in. watermains and 4,035 ft. 8- to 12-in. sewers in various streets. $25,000.

Ill., Fairfield—July 1, by City, A. Harlan, clk., for waterworks plant, incl. pumping equipment, distribution mains, and line from Little Wabash River to here. $150,000. G. Dunbar, 419 Chemical Bldg., St. Louis, Mo., engr.

Ill., Marengo—June 25, by City additions to waterworks. Randolph-Perkins Co., 1210 1st Natl. Bank Bldg., Chicago, engrs.; adv. E. N.-R. June 11.

Wis., Madison—City, W. Winckler, clk., taking bids 6 m.g. rein.-con., high service, resorvoir, 205 ft. diam. and 26 ft. high inside with concrete cover. $60,000. L. A. Smith, City Hall, engr.

Ia., Diagonal—June 15, by R. O. Bailey, city clk., 16,500 ft. 2- to 6-in. c.i. pipe, 50,000 gal. capacity tank on tower, 50 ft. deep well, pumping equipment, hydrants, valves, etc. $34,000. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, Mo., engrs. Noted Apr. 30.

Minn., Minneapolis—June 18, by F. S. Gram, city purch. agt., 57 tons special castings for new filtration plant (now under construction). N. W. Elsberg, city engr.

Minn., Minneapolis—June 25 (extended date), by F. S. Gram, city purch. agt., 10 operating tables in filter operating gallery; three high and low centrifugal service pumps, also synchronous motors for high and low centrifugal pump drive, etc., at Fridley Pumping Station. Noted June 4.

Minn., Montgomery—June 22, by F. J. Busta, city clk., watermain extensions, incl. twenty 6 in. gate valves, 13,600 lin.ft. 6 in. c.i. mains, etc., in various streets. $15,000. Druar & Millinowski, 500 Globe Bldg., St. Paul, engrs.

Wash., Raymond — June 17, by G. LaVigne, city clk., 1,500 ft. 16 in. c.i. main through tunnel, incl. timbering and mucking, etc.

Ont., Crystal Beach—June 22, by P. F. Ryan, 37,590 ft. 4- to 12-in. c.i. mains in various streets. $40,000. E. H. Darling, 47 Home Bank Bldg., Hamilton, engr.

Ont., Forest—June 17, by W. J. English, town clk., 27,000 lin.ft. 4, 6, and 8 in. c.i. mains, etc. in various streets. $35,000. J. A. Bell & Son, Court House, St. Thomas, engrs.

BIDS RECEIVED

Pa., Phila. — Dept. Pub. Wks., Bureau Water, June 1, from Acme Machine Co., 316 North 17th St., Contr. 739, power, equipment for Queens Lane extension, Div. A $39,252, Div. B $14,427, Div. C $85,265, Div. D $74,105, Div. E $17,246, Div F $112,324, Job Basis $340,904, Contr. 759, parts for low pressure fire hydrants $12,038; from Dravo-Doyle Co., Schaff Bldg., Div. C Contr. 739 $81,450; from J. R. Fox, Jr., 2620 West Fletcher St., Contr. 758, railroad siding $5,500; from Huxley Fdry. Inc., 106 Tasker St., Contr. 760, for copper, tin and zinc ingots $2,150. Noted May 28.

O., Cleveland—For 3,800 ft. 36 in. mains in Sect. 4 of Ridge Rd., pipe from Kassouff & Co., 3182 West 25th St. c.i. pipe $125,215; from D. Lowens, 8210 Woodland Ave., riveted steel $128,700; from Langahan Constr. Co., Marshall Bldg., lockbar. $140,400. Noted May 21.

Ill., Quincy — Waterworks Comn., 314 Main St., May 28, high service reservoir, from Priester Constr. Co., Kahl Bldg., Davenport, Ia., $174,578. Noted Apr. 30.

Wash., Seattle—Bd. Pub. Wks., from Interstate Constr. Co., Thompson Bldg., mains in 36th Ave. S. W., 985 ft. 12 in. c.i. pipe $3 per ft., 2,630 ft. 8 in. Class B c.i. pipe $1.74, and 5,940 ft. 8 in. Class C c.i. pipe $1.80, total $25,902. Engrs. est $29,070.

CONTRACTS AWARDED

Pa., Ashland—Boro, impounding reservoir for domestic water supply, to Pottsville Constr. Co., Pottsville, $262,324. Engrs. est. $268,000. Noted Apr. 16.

Pa., Pittsburgh — Carnegie Steel Co., Carnegie Bldg., We-Fu-Go water purification system, 2,500,000 gal. daily capacity, for Lucy Furnaces, and similar system at Farrell plant, to W. M. Scaife & Sons Co., 1st Natl. Bank Bldg.

Md. Baltimore—Bd. Awards, copper wire to Water Dept., to Chase & Co., Waterbury Conn., $13,900; brass service pipe fittings, to Mueller Co., Decatur, Ill., $43,400. Noted June 4.

La., Churchpoint—Mayor and Bd. Aldermen, 50,000 gal. tank on tower, to Pittsburgh-Des Moines Co., Praetorian Bldg., Dallas, Tex., $4,025, 12,000 gal. oil storage tank, to Chicago Steel Tank & Tower Co., 1301 S. 55th Ct. Cicero, Chicago, Ill., $550; pumps, engines, air compressor, transformer, etc., to A. Baldwin Co., Camp and Common Sts., New Orleans, $18,850; well to Lane Louisiana Co., Lake Charles, $1,000; 125,000 gal. concrete reservoir, to J. H. Porter, Clinton, Ky., $3,200. Noted Apr. 9.

O., Cleveland—Cuyahoga Co., 6,300 ft. 6 and 8 in. c.i. mains in Impvt. 552, Lee Rd. and Lee Harvard Subdivision, to Hanna & Michael, 2457 E. 55th St., $19,702. Noted June 4.

Ia., New Albin—City, concrete reservoir, pump house and pumping equipment, to Pittsburgh-Des Moines Steel Co., Tuttle and 10th Sts., Des Moines, $23,000. Noted Apr. 30.

Wis., Milwaukee—Dept. Pub. Wks., 13,019 ft. 6 in., to F. E. Kaminski, 745 46th Ave., West Allis, $10,338; 7,644 ft. 8 in. and 1,935 ft. 12 in. mains in various streets, to Wenzel & Henoch Co., 498 27th St., $4,443 and $9,034 respectively. Grand total $23,815. Noted May 21.

Wis., Milwaukee—Dept. Pub. Wks., 5,500 lin.ft. 54 in. c.i. mains in Burleigh St. between 35th and 51st Sts., to W. T. Werner, 675 Hi-Mount Blvd., $79,585. Noted May 21.

Tex., Bossier—City, 3 deep wells and approximately 7 mi. water and sewer lines in various streets, to Janes Contg. Co., Southwestern Life Bldg., Dallas, $137,841. Engrs. est. $140,000.

Tex., Lamesa — Waterworks improvements, incl. 4.5 mi. 6 and 8 in. c.i. mains, 50,000 gal. rein.-con. covered reservoir, also 3.5 mi. 6- to 10-in. sewers, in various streets, to T. J. Whalen, Lubbock, $64,174. Engrs. est. $70,000. Noted Apr. 30.

Tex., Littlefield — City, B. L. Coggill, mayor, waterworks, incl. tank and tower, pumps, mains, etc., to Gantt-Baker Co., 1116-18 West Main St., Oklahoma City, approximately $60,000.

Ont., Leamington — R. M. Selkirk, town clk c.i. pipe, to Gartshore, Thompson Pipe & Fdry. Co., Hamilton, $17,775; pumps and motors, to Turbine Equipment Co., 73 King St. W., Toronto, $5,500; chlorinator and steel pipe, to Wallace & Tiernan, 73 Adelaide St. E., Toronto, $6,100; crib and pump house, to S. Carehagan, Leamington, $4,800.

Sewers

PROPOSED WORK

R. I., Providence—Plans sewers in Berkeley, Erastus, Judith, Hampton and Flora Sts. $25,000. J. B. Ballard, chn. Com. on Sewers, Pub. Wks. Dept.

N. J., Ventnor — Plans sewage disposal plant. $150,000. Engineer not selected.

Ga., Dalton — Voted $30,000 bonds, sewers in various streets. Noted May 26.

Fla., Cedar Key—Plans election $50,000 bonds, extending sewers in various streets. K. W. Drummond, city clk.

Fla., St. Cloud — Voted $240,000 bonds, extending sewers in various streets. J. B. Collins, city clk.

Miss., Gulfport—City, G. Odom, street comr., plans drainage improvements. $58,720.

Miss., Jackson—Voted $110,000 bonds for sewers in various streets. P. A. O'Brien, City Hall, engr. M. L. Culley, Jackson, consult. engr.

O., Alliance—City making preliminary surveys East Alliance sanitary sewer to link with new sewer in southwestern Mahoning Co. $100,000 or more. H. E. Anderson, Alliance, engr.

O., Euclid—Takes bids in summer, sewers in Edgecliff and Park Drives, Glenridge, East Park, Roberts and Maydale Aves., East 215th, 214th, 223rd, 224th, 225th and 226th Sts. $50,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ind., Anderson—Plans 3 mi. sewers in various streets in Park Pl. Addition. $40,000. M. H. Donney, City Hall, engr.

Tex., Bay City—See "Streets and Roads."

Tex., Palmer — Election soon $25,000 bonds for sewers. E. L. Dalton, 319 Wilson Bldg., Dallas, engr.

Tex., Wichita Falls—Election soon $50,000 or more bonds, for sewage disposal plant. Montgomery & Ward, Wichita Falls, engrs. J. H. Gregory, Johns Hopkins University, Baltimore, Md., consult. engr. Noted May 7.

Okla., Mt. View — Making preliminary plans disposal plant 30,000 ft. 8- to 15-in. sanitary outfall sewers in all streets. $45,000. Engineer not announced.

O., Massillon — Plans storm sewer in Kendall allotment. $110,000. City appropriates $85,000 toward cost.

O., Youngstown—Plans sanitary sewer in Waverly Sub. Dist. $112,200. G. Turner, city engr.

Mo., West Plains — Defeated $50,000 bonds, sewers in various streets. Noted Aug. 14.

Ark., Little Rock—Making preliminary plans sanitary sewers, etc., in Sewer Dist. 102. $35,000. M. C. Reed, H. F. Bracy and W. L. Hughes, assessors.

Tex., Cuero—Election soon $28,000 bonds for 1 mi. 8 in. mains to replace smaller mains, 15 fire hydrants, pumping machinery, etc. Address Mayor.

Tex., Clarendon—Defeated $121,000 bonds for sewers. Will call new election soon. F. E. Devlin Eng. Co., 614 Bitting Bldg., Wichita, Kan., engrs. Noted Apr. 2.

Okla., Ada—Making plans sewers in various streets. $100,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Okla., Billings—Voted $35,000 bonds, sanitary sewers in various streets Black & Veatch, 700 Mutual Bldg., Kansas City, engrs.

Okla., Davenport—Election June 16, $35,000 bonds for sewage disposal plant, incl. septic tank, and 20,100 ft. 6- to 12-in. vitr. clay sewers, etc., in all streets. Gantt-Baker Co., 116 West Main St., Oklahoma City, engrs.

Okla., Norman — Voted $25,000 bonds, extending sanitary sewers in various parts of city. F. Cobb, Norman, engr. Noted May 7.

Okla., Oklahoma City—Making surveys 7,200 ft. 48 in. segmental block sewer in East 7th St. $35,000. B. M. Hart, City Hall, engr.

Colo., Denver—Plans 50,000 ft. 8- to 15-in. vitr. sewer in North Highlands Sanitary Sewer Dist., $130,628; 22,000 ft. 8, 10 and 12 in. vitr. sewer, etc. in Valverd Special Sanitary Sewer Dist. 1, $53,822. A. K. Vickery, City Hall, engr.

Ore., Forest Grove — City Comn. takes bids about July 13, rebuilding sewerage system. $71,968. H. F. Price, city engr. Cunningham & Barr, Portland, consult. engrs.

Ore., Portland—Making plans and takes bids about Aug. 29, intercepting sewer in 17 blocks various streets on west side of Willamette River, incl. sewage pumping plant and harbor wall, etc. $1,936,620. O. Langaard, City Hall, engr.

Calif., Los Angeles—Bd. Pub. Wks. takes bids about June 28, 8 in. vitr. clay sewer in Lemoyne St., 59th Dr., etc. T. W. Tuttle, City Hall, engr.

Calif., Los Angeles — Los Angeles Co. made plans 41,410 ft. 8- to 15-in. vitr. sewer, 20,000 ft. 6 in. house sewer connections, etc., in Hampton Ave. between Genesee Ave. and Gardner St.; also 2,840 ft. 6 in. vitr. house sewer, 125 ft. 8 in. vitr. laterals, 7,840 ft. 8- to 10-in. vitr. main line and 25 ft. 12 in. vitr. trunk sewer in Moneta Ave. between 93rd and 104th Sts., etc.

BIDS DESIRED

Mass., Boston — June 15, by Dept. Pub. Wks., sewerage works in Washington St.; June 16 in Tremont St. $25,000. J. A. Rourke, comr.

Mass., Dedham — June 24, by Sewer Comrs., Memorial Hall, constructing about 2,142 ft. 8 ft. sewers with appurtenances in Whitman Ave., Fairview and Maverick Sts. H. A. Phitts, chn.

Conn., Wallingford — June 30, by J. P. Bridgett, warden, and Court of Burgesses, at Boro Office, 3,390 lin.ft. 8 in. and 667 lin.ft. 10 in. vitr. tile sewers, etc., in 8 streets. W. A. MacKenzie, boro engr.; adv. E. N.-R. June 11.

N. Y., Long Island City—June 17, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Bway., Lake View Pl., Sutphin Blvd., 150th, 146th and 155th Sts., 20th, North Conduit, 120th and 114th Aves.

N. Y., New York—June 16, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Allerton Ave. and Duncan St.

N. J., Highland Park (br. of New Brunswick)—June 15, by Mayor and Boro Council, Masonic Bldg., Raritan and 4th Aves., pumping station, 18,803 lin.ft. 8, 12, and 15 in. vitr. and 402 lin.ft. 8 and 16 in. c.i. sewers, etc. in various streets. R. P. Wilson, 46 Paterson St., New Brunswick, engr.

N. J., Woodridge — June 24, by Mayor and Council, 10 mi. vitr. and c.i. sanitary sewerage system, sewage treatment works.

Sewers (Continued)

and ejector stations, alternate bids on pumping station and tunnel. T. E. Bowe, 110 William St., New York City, consult. engr.; adv. E. N.-R. June 11.

Fla., Tampa—June 26, by City Comn., sewers in portions of Sect. 16, $50,000; in Sect. 17, $50,000. R. D. Martin, City Hall, engr.

Fla., Tampa — June 23, by City Comn., sewers in Sect. 2, streets and alleys. $25,000. R. D. Martin, City Hall, engr.

Tenn., Knoxville—June 16, by City Clerk, Lonsdale Trunk Sewer. L. Brownlow, city engr. A. Harris, dir. Pub. Wks. Noted $75,000.

O., Cleveland—June 17, at office Commissioner Purchase & Supplies, 226 City Hall, sewers La Verne Ave. S. W., East Blvd., Regalia Ave., East 170th, 172nd, 173rd, West 118th and 140th Sts. also culverts in Clarke Ave. outlet, east of Delavan Rd., and south of Lorain Ave., etc. R. Hoffman, City Hall, engr.

O., Euclid — June 15, by City, sanitary and storm sewer in Cut Rd. from St. Clair Ave. to Chardon Rd., and Chardon Rd. from Cut Rd. to Euclid Ave. $50,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Mich., Fenton—See "Waterworks"

Mich., Flint—City, taking bids for 17,000 lin.ft. steel pipe for sewer projects.

Ill., Kewanee—See "Streets and Roads."

Wis., Watertown—June 15, by F. Weber, city clk., 3,605 lin.ft. 8 and 10 in. vitr. and 556 lin.ft. 10 in. c.i. sanitary also 5,630 ft. 10- to 24-in. vitr. storm sewers, etc. in various streets. To exceed $25,000. A Kraeft, City Hall, engr.

BIDS RECEIVED

Mass., Boston—Dept. Pub. Wks., sewerage works in River St., Hyde Park, from A. Piatelli, 10 Embrose Terrace, Dorchester, $24,051 engrs. est. $25,000; in Eastern Ave., Brighton, from A. Cefalo, 316 Belgrade Ave., Rosindale, $19,015, engrs. est. $25,000. Noted May 28.

N. Y., Buffalo — Commissioner Pub. Wks., Municipal Bldg., constructing covered rein.-con. storm water drain together with siphons, weir chambers, overflow connections, sewer extension, inlet structures, etc., between end of Sect. II west of Bailey Ave. and point south of Genesee St., also rectifying channel of Scajaquada Creek between Inlet and Sprenger Ave., from F. L. Cohen, Inc., 708 East Ferry St., $674,000; alternate bid constructing covered rein.-con. storm water drain together with siphons, weir chambers, overflow and sewer connections, etc., between end of Sect. II west of Bailey Ave. and point 100 ft. south of Genesee St., end of covered drain, from Buffalo Dredging & Constr. Co., Morgan Bldg., $473,000. Noted Apr. 23.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., June 4, from F. Gabrielle, 1129 8th Ave., sewers in Hull Ave. $3,231, Pelham Parkway North $38,837, West 176th St. $12,551, Pelham Parkway South $5,725; from Fiorello & Koch, sewer in Zulette Ave. $2,196. Noted May 28.

N. J., Little Falls — B. S. Briggs, clk. Twp. Com., Municipal Bldg., extending sewerage system from Pizzimenti Bros., Hyattsville, Md., $96,316; pumping station, from Denville Constr. Co., 147 Morris St., Dover, $6,000.

Md., Baltimore — Bd. Awards, storm sewers in Dist. G-11, 46-B, P-8, and P-4, Storm Water Contr. 83, 500 lin.ft. 5 ft. x 2 in. and 2,160 lin.ft. 6 ft. x 3 ft. 6 in. rein.-con. box drain, 5,875 lin.ft. 24- to 42-in. concrete pipe, and 4,858 lin.ft. vitr. drain and inlet connections, from A. J. Boyle, Amer. Bldg., $137,074.

O., Akron—W. F. Peters, dir. Pub. Serv., June 2, rebuilding 1,700 ft. 12- to 15-in. vitr. clay and 4,350 ft. 30- to 63-in. brick sewer preliminary to abolishing grade crossings at Buchtel Ave. and Exchange Sts., Contr. 1, from E. and W. McShaffrey, 574 Rhodes Ave., $118,995. Engrs. est. $150,000. Noted May 21.

Minn., St. Paul — H. W. Austin, city purch. agt., May 26, constructing Belt Line, Phalen and Hazel Park sewers, Contr. K, 273 ft. 9 in. circular sewer, 1,747 ft. 7 ft. and 2,487 ft. 6 ft. concrete pipe, 2,290 ft. 18- to 35-in. vitr. pipe, etc., from O'Neil & Preston, 608 Exch. Bank Bldg., $132,000. Noted May 21.

CONTRACTS AWARDED

N. J., South Amboy — Common Council, 1,500 ft. concrete sewer pipe for sewer in John St., to Lock Joint Pipe Co., 165 Bway., New York City, $12,566.

Tenn., Memphis—City, main sewer line along Wolf River north of central section, to F. D. Harvey, 688 South Bellevue St., $29,428; sanitary sewers in Riverside Blvd. from Trigg Ave. to Parkway, to G. W. Turner & Co., Memphis, engrs. est. $3,020.

O., Cleveland—City, 3,085 ft. 12- to 24-in. vitr. tile sewer in Tuttle Ave., to Hadded, Karial Constr. Co., 415 Eagle Ave., $9,713; 775 ft. 15 in. vitr. tile sewer in Stratford Ave., to W. B. Smith, 706 The Arcade, $2,608; 815 ft. 12 in. vitr. tile sewer in Rudyard Ave., to Ciraci Constr. Co., 3414 East 123rd St., $3,970; 4,930 ft. vitr. tile sewer in Mohawk Ave., to Salem & George Bros., Erie Bldg., $15,350. Grand total $31,641.

Ia., Sioux City—See "Streets and Roads."

Tex., Bossier—See "Waterworks."

Tex., Lamesa—See "Waterworks."

Tex., Sweetwater — See "Streets and Roads."

Okla., Pauls Valley—City, extending 20,000 ft. 8 and 10 in. vitr. clay sewers, etc., in Gertie, Coffee, Montie, Wagner, Pear and Elm Sts., Sewer Dist. 7, to Sherman Iron Wks., 18 East Main St., Oklahoma City, $24,670. Engrs. est. $25,000.

Okla., Seminole—City, incl. 23,200 ft. 6- to 12-in. vertical fibre brick lateral sanitary sewers, etc., in Yuchee, Seminole, Creek and Hughes Sts., Dists. 1, 2 and 3, to D. A. Blackburn, Healdton, $45,000. Engrs. est. $50,000.

Okla., Tulsa—See "Streets and Roads."

Calif., Los Angeles—To Fry Bros., 2905 East 3rd St., Long Beach, improving 83rd St. between Normandie and Western Aves., grading $10,000, 1,680 sq.ft. 6 in. concrete paving $0.188 per sq.ft., 455,401 sq.ft. oil roadway $0.038, etc., total $106,415.

Calif., Los Angeles — Cement sewer in Warwick Ave., to L. Miletich, 610 West 54th St., Los Angeles, $205,000.

Calif., Los Angeles—Cement sewer in Ellenwood Dr., to Haverty Co., Maple and 8th Sts., Los Angeles, $31,750.

Bridges

PROPOSED WORK

R. I., Providence—Briggs Eng. and Constr. Co., plans bridge over Providence River between Market Sq. and Crawford St. To exceed $25,000. Cost to be borne by City and Briggs Co.

N. Y., Buffalo — Making plans 100 ft. steel and concrete bridge on South Park Ave. To exceed $100,000. C. E. P. Babcock, city engr.

Fla., Jacksonville — See "Streets and Roads."

Fla., Sarasota — Sarasota Co. election June 16, $30,000 bonds for bridge at Cronoley and Manasota Sts. O. E. Roesch, co. clk.

Fla., Sarasota—Election June 16, $150,000 bonds Siesta Bridge across Sarasota Bay.

Fla., Sebastian — Brevard Co. (Titusville) and St. Lucie Co. (Fort Pierce) plan creating new special road and bridge district known as Sebastian Bridge Dist., in northern part of St. Lucie and southern part of Brevard Counties, also plan to issue $75,000 bonds for bridge over Indian River, here. N. T. Frascher, clk. Brevard Co.

Fla., Tampa — Hillsborough Co. plans new bridge replacing present one over Six Mile Creek. $40,000. A. B. Pimm, Court House, engr.

Fla., Wabasso—St. Lucia Co., (Fort Pierce) voted $75,000 bonds, new bridge over Indian River, here.

Miss., Meridian—See "Streets and Roads."

O., Cincinnati — Plans 170 ft. concrete arch bridge, on Mitchel Ave. $11,000. F. Krug, City Hall, engr.

O., Cleveland—Cleveland Union Terminal Co., Marshall Bldg., plans rein.-con. bridge, West Side. $100,000. H. D. Jonett, Ulmer Bldg., engr.

O., Dayton — Montgomery Co. plans 3 span, 500 ft. steel truss highway bridge with 24 ft. roadway, 2 piers and 2 abutments over Miami River, on Dixie Highway. $150,000. W. O. Pease, Dayton, co. surv.

Missouri — State Hy. Dept., Jefferson City, making plans three 45 ft. rein.-con. deck girder spans, etc., over Long Branch, Audrain Co.; two 12 ft. rein.-con. slab spans, etc., over Midway Creek, Barton Co.; five 110 ft. rein.-con. arch spans, etc., over Meramec River, three 40 ft. rein.-con. deck girder spans, etc., over Yadkin River, both in Crawford Co.; one 40 ft. rein.-con. deck girder span, etc., over Grindstone Creek, DeKalb Co.; one 55 ft. steel truss span, etc., over Chicago, Rock Island & Pacific R.R. tracks, Franklin Co.; one 30 ft. and two 25 ft. rein.-con. deck girder spans, etc., over Chicago, Burlington & Quincy R.R. tracks, also three 45 ft. rein.-con. deck girder spans, etc., over middle fork of Chariton River, Macon Co.; two 80 ft. steel truss spans, etc., over Elks Fork of Salt River, and two 12 ft. rein.-con. slab spans, etc., over stream, both in Monroe Co.; three 80 ft. rein.-con. arch spandrel filled spans, etc., over Barren Fork, and two 40 ft. rein.-con. deck girder spans, etc., over Hogard Creek, Ozark Co.; three 80 ft. rein.-con. arch spans, etc., over Sinking Creek, Shannon Co.; three 30 ft. steel deck plate girder spans, etc., under Kansas City, Clay County & St. Joseph R.R. tracks, two 12 ft. rein.-con. slab spans, etc., over Wildcat Creek, all in Platte Co. B. H. Piepmeier, highway engr.

Mo., Kansas City—Election soon $2,600,000 bonds ½ mi. rein.-con. and steel bridge in Blue Valley Dist. P. McGeehan, City Hall, engr.

Tex., Albion—State Hy. Depts. of Texas, Austin, and Oklahoma, Oklahoma City, making preliminary plans 6,000 ft. bridge over Red River near here. $350,000. J. M. Page, Oklahoma City, highway engr. of Oklahoma.

Tex., Anson—See "Streets and Roads."

Tex., Austin—See "Streets and Roads."

Tex., Carthage—See "Streets and Roads."

Tex., Henrietta — See "Streets and Roads."

Tex., San Diego — See "Streets and Roads."

Tex., Vernon—See "Streets and Roads."

California—Los Angeles Co. (Los Angeles) soon takes bids rein.-con. girder bridge on Anaheim Rd., near Long Beach, $400,000; also 2 rein.-con. girder bridges, one at Sherman Way, $45,000, and one at Universal City, $40,000. M. Butler, City Hall Annex, Los Angeles, engr.

Calif., Red Bluff—City, Tehama Co. and State Hy. Comn., Sacramento, plan bridge over Reeds Creek, south of here. $50,000. R. M. Morton, Forum Bldg., Sacramento, ch. engr.

Calif., San Jose—City and Santa Clara Co. making plans, bridge on Williams St. W. Popp, city engr. $45,000.

BIDS DESIRED

Mass., Boston—Dept. Pub. Wks., taking bids rebuilding Massachusetts Ave. bridge, concrete and steel, over tracks New York, New Haven & Hartford R.R. $30,000 bonds J. A. Rourke, comr. Noted May 28.

Mass., North Adams—July 2, by E. R. Doble, comr. Pub. Wks., City Hall, reconstructing Holden St. Bridge; adv. E. N.-R. June 11.

Rhode Island — June 24, at office State Bd. Pub. Rds., Room 21, State House, Providence, constructing state bridges in Warwick, North Kingstown, New Shoreham, Burrillville, Cranston and North Smithfield; adv. E. N.-R. June 11.

N. J., Stony Creek—June 23, by B. Glassbrook, clk. Bd. Supervs. Warren Co., Lake George, constructing New Tannery Bridge over Stony Creek, here. C. Fox, chn.; adv. E. N.-R. June 11.

Ga., Bainbridge—June 26, by State Hy. Dept., East Point, double leaf steel rolling span bridge over Flint River, Decatur Co., here. E. J. Smith, Thomasville, engr. W. R. Neel, highway engr.

Illinois—June 23, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 40 ft. and one 50 ft. span rein.-con. girder bridge, Route 1, Sect. 43-B, Saline Co., one 20 ft. rein.-con. slab bridge and one 42½ ft. rein.-con. girder bridge, Route 3, Sect. 2-B, Morgan Co., two 40 ft. and three 50 ft. span rein.-con. girder bridge, Route 7, Sect. S, Bureau Co., three 43 ft. span rein.-con. girder bridge, Route 23, Sect. 26-V, De Kalb Co., seven 40 ft. span rein.-con. girder bridge, Route 32, Sect. 4-B, Moultrie Co., one 24 ft. and one 40 ft. span rein.-con. girder bridge, Route 36, Sect. 2-B, Hancock Co., one 24 ft., four 45 ft. and one 58 ft. span rein.-con. and girder bridges, Route 40, Sect. 10-B, Jo Daviess Co.; sidewalks for three 30 ft. span girder bridge, Route 6, Sect. 2-K, DuPage Co. F. T. Sheets, ch. highway engr.

Oklahoma—June 15, by State Hy. Dept., Oklahoma City, 2 span 86 ft. rein.-con. bridge at Gould, Harmon Co., 7.4 tons reinforcing, 278 cu.yd. concrete, 1,400 ft. wooden piling, etc., $30,000; 2 span 92 ft. rein.-con. bridge at Watts, Adair Co., 8.2 tons reinforcing, 220 cu.yd. concrete, 1,200 ft. wooden piling, etc., $35,000; 2 span 118 ft. rein.-con. bridge at Signet, Payne Co., 3.7 tons reinforcing, 430 cu.yd. concrete, 2,400 ft. wooden piling, etc., $35,000; 2 span 148 ft. steel truss on concrete piers, at Clinton, Custer Co., 4.4 tons reinforcing, 670 cu.yd. concrete, 3,500 ft. wooden piling, etc., $45,000. J. M. Page, highway engr.

Washington—June 23, by State Hy. Dept., Olympia, 579 ft. rein.-con. bridge, incl. 90 ft. arch and T-beam approaches over south fork Chehalis River, on State Rd. 12, Lewis Co. J. W. Hoover, state highway engr. Noted June 4.

Wash., Aberdeen—June 24, by City, constructing bridge. $200,000.

BIDS RECEIVED

Mass., West Springfield (br. of Springfield)—Dept. Pub. Wks., Boston, W. F. Williams, comr., June 2, furnishing, fab-

Bridges (Continued)

ricating and erecting steel bridge, here, from Boston Bridge Wks., Inc., 47 Winter St., Boston, $0.05 per lb. Noted June 4.

New Jersey—State Hy. Comn., Trenton, 3 rein.-con. slab bridges on concrete abutments over Waretown Creek, Oyster Creek, and South Branch Forked River, all on Route 4, Sect. 28 A, Ocean Co., from General Constr. & Contg. Co., 117 Emory Ave., Trenton, $42,905. Noted May 21.

Maryland — State Roads Comn., Baltimore, bridge over Licking Creek on Natl. Pike, Contr. W-36, Washington Co., from Forbes-Murphy Constr. Co., 406 St. Paul St., Baltimore, $16,980. Noted May 28.

Wisconsin—See "Streets and Roads."

Missouri—State Hy. Dept., Jefferson City, from A. A. Davis & Co., Grain Exch. Bldg., Oklahoma City, Okla., two 12 ft. rein.-con. slab spans, etc., over Birdsong Creek $1,916, two 20 ft. rein.-con. slab spans, etc., over Sappington Branch, $2,601; from C. Jobe, Clarksburg, two 12 ft. rein.-con. slab spans, etc., over Dry Fork Branch, $2,515, and two 12 ft. rein.-con. slab spans, etc., over Long Branch, $2,643, also two 12 ft. rein.-con. slab spans, etc., over stream, $2,458, all foregoing in Moniteau Co.; from Public Wks. Constr. Co., Century Bldg., St. Louis, two 80 ft. steel truss spans, etc., over middle fork of South Fabius River, Scotland Co. $23,763, five 80 ft. steel truss spans, etc., over east fork of Black River, Reynolds Co., $34,831; from J. M. Birmingham, Vienna, one 45 ft. rein.-con. deck girder span, etc., over Silver Fork of Grindstone Creek $10,115, two 18 ft. rein.-con. slab spans, etc., over Grindstone Creek, $2,741, both in Boone Co.; from Robertson Carmean Constr. Co., Caruthersville, three 45 ft. rein.-con. deck girder spans, etc., over South River, Marion Co., $7,517; from H. H. Hannenkrat, Kansas City, two 10 ft. rein.-con. slab spans, etc., over Bailey Branch, Moniteau Co., $2,002; from Cook & Waddell, Ottawa, Kan., two 20 ft. rein.-con. slab spans, etc., over stream, Audrain Co., $4,126; from Kelly & Underwood, Granby, two 12 ft. rein.-con. slab spans, etc., over stream, Phelps Co. $4,717; from Springfield Constr. Co., Springfield, three 20 ft. rein.-con. slab spans, etc., over Little Beaver Creek, Phelps Co., $4,663; from M. E. Gillioz, Monett, one 45 ft. rein.-con. deck girder span, etc., over Coon Creek, $9,350; from Kalterman-Thompson, Omaha, Neb., two 12 ft. rein.-con. slab spans, etc., over Norwegian Creek, $3,195, from J. A. Carlson, Macon, one 60 ft. steel truss span, etc., over Little Fabius Creek, $8,870, all in Knox Co.; from Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, one 120 ft. steel truss span, etc., over Saline Creek, Miller Co., $26,669; from F. C. Teach Co., Morroco, Ind., one 80 ft. steel truss span, etc., over Tobin Creek, Scotland Co., $10,-456; from Thomas & Samson, Bonnotesmill, repairing 190 ft. steel bridge over Bourbenese River, Franklin Co., $995. Noted May 14.

Tex., Anderson—See "Streets and Roads."

Tex., Laredo—See "Streets and Roads."

Tex., Linden—See "Streets and Roads."

California—State Highway Comn., Sacramento, May 25, eight 50 ft. span, rein.-con. girder bridge, 30 ft. over San Mateo Creek, San Diego Co., from R. A. Watson, 2304 Hyperion St., Los Angeles, $74,787. Noted May 21.

CONTRACTS AWARDED

Pa., Point Bridge (mail Pittsburgh)—Allegheny Co., piers and approaches for bridge here over Monongahela River, to Dravo Contg. Co., 302 Pennsylvania Ave., $591,195. Engrs. est. $700,000. Noted May 28.

Maryland — State Roads Comn., Baltimore, 57 ft. single span bridge over Evitts Creek, on Natl. Pike, Contr. A-38, and 71 ft. rein.-con. span arch bridge over Town Creek, on Natl. Pike at Gilpin, Contr. A-36, to Thomas, Bennett & Hunter, Westminister, $9,165 and $13,735 respectively; extending existing brick arch with 50 ft. span and 7 ft. rein.-con. arch, over Flintstone Creek, at Flintstone, to Brady Bros. & Co., Frostburg, $4,361. Noted May 28.

North Carolina — State Hy. Comn., Raleigh, rein.-con. bridges and culverts on Project 105-E, Beaufort Co., to Roanoke Iron & Bridge Works, Roanoke, Va., $32,-819. Noted May 21.

South Carolina — J. M. Martin, engr., Florence, 1,911 ft. treated timber bridge and approaches over Lynches River on State Route 3, Federal Aid Project 260-A, Lee and Florence Counties, to Austin Bros. Bridge Co., Mickleberry St., Atlanta, Ga. $48,145; also sand clay surfacing 2.7 mi. roadway, to Newell Constr. Co., Greenville, $52,965. Noted May 14.

La., Simmesport—Bd. Comrs. Rio River, Atchafalaya and Bayou Boeuff Levee Dist., Alexandria, granted Louisiana Ry. & Navigation Co., W. Edonborn, pres., United Fruit Bldg., New Orleans, permission to construct railroad bridge across Atchafalaya River, here.

Ia., Logan—Harrison Co., 180 x 16 ft. pony truss bridge with two 30 x 16 ft. I-beam approaches, one 100 x 20 ft. high truss bridge, one 175 x 20 ft. pin connected high truss bridge with 90 x 20 ft. and one 60 x 20 ft. pony truss approach and one 60 x 20 ft. high truss bridge, Federal Aid Project 228, to G. W. Condon, 510 Farnam Bldg., Omaha, Neb., $68,700; four box culverts, to Standard Bridge Co., City Natl. Bank Bldg., Omaha, Neb., $9,370. Noted May 7.

South Dakota—State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project)**, one 30 ft. viaduct on F. A. P. 42, Brown Co., 13,325 lb. reinforcing and 45,300 lb. structural steel, to H. Pickus Constr. Co., Sioux City, Ia., $6,171; bridge and culvert on F. A. P. 173C, Faulk Co., 35,293 lb. reinforcing, to Schreiber Eng. Co., Watertown, $10,-366; one 34 ft. viaduct on F. A. P. 177B, Pennington Co., to Northwestern Eng. Co., Kadoka, $2,454; one 34 ft. and one 78 ft. viaducts on F. A. P. 188D, McCook Co., 21,-241 lb. reinforcing and 49,969 lb. structural steel, to W. A. Barnhart, Salem, $8,854; one 40 ft. viaduct on F. A. P. 178B, Hutchinson Co., 6,989 lb. reinforcing and 26,119 lb. structural steel, to Federal Bridge Co., 1002 B. T. Bldg., Des Moines, Ia., $3,431. Grand total $31,276. Noted May 21.

Tex., Brenham—See "Streets and Roads."

Tex., Sweetwater — Nolan Co., concrete bridges, and box culverts on State Highway 70, to C. C. O'Neal, 4425 Glenwood St., Dallas, $26,014. Engrs. est. $30,000. Noted May 28.

Oklahoma—See "Streets and Roads."

Washington—State Hy. Comn., Olympia, two 20 ft. rein.-con. slab span bridge over Mission Creek, on State Rd. 2, Chelan Co., to C. F. Bond, 908 West Maxwell St., Spokane, $5,058; one 40 ft. and two 30 ft. rein.-con. T-beam span bridge over Rock Island Creek, on State Rd. 10, Douglas Co., to Delivuk & Stack, 615 Realty Bldg., Spokane, $7,552; one 16 ft. rein.-con. slab span bridge over Kiona Creek, one 30 ft. rein.-con. T-beam span bridge over Oliver Creek, and one special 20 ft. rein.-con. arch culvert over Peters Creek, all on State Rd. 5, Lewis Co., to H. C. Mallott, 6548 17th Ave. N. E., Seattle, $18,067. Grand total $30,677. Noted May 14.

Ore., Portland—Comrs. Multnomah Co., Room 405 Court House, Ross Island Bridge over Willamette River, main river spans, to Booth & Pomeroy, Portland, $1,135,843; approaches and retaining wall, to Lindstrom & Feigensen, Portland, $505,500. Noted Apr. 30.

Calif., Los Angeles — City, 60 ft. span rein.-con. bridge with two 40 ft. approaches, Avenue 60, to B. Crossland, 604 South Marguerita Ave., Alhambra, $83,405. Noted June 4.

Calif., Los Angeles—To Atkinson—Spicer Co., Chapman Bldg., for Macy St. viaduct over Los Angeles River, arch centers $10,-000, 1,450,000 lb. reinforcing $0.045 per lb., etc., total $324,825. Noted June 4.

Calif., Los Angeles — City, beam and girder bridge, 26,356 cu.yd. fill, 1,600 cu.yd. concrete, to B. Crossland, 604 South Marguerita St., Alhambra, $83,405. Engrs. est. $82,000.

Dams

PROPOSED WORK

Wis., Mason—See "Unclassified."

Tex., Brownwood—See "Waterworks."

Tex., San Antonio—Lakewood Co., Brady Bldg., T. Etheridge, Jr., chn. Building Com., plans 8 mi. rein.-con. dam, 80 ft. maximum heighth, between Fredericksburg and Blanco Rds., near here. Engineer not selected.

BIDS DESIRED

Ont., Ottawa—June 30, by J. W. Pugsley, secy. Dept. Rys. and Canals Ottawa, concrete dam at Trent Canal, Lock 23. $150,-000. A. E. Debuc, Ottawa, engr.

Railways

PROPOSED WORK

Tennessee—Nashville Railway & Light Co., Watkins Bldg., Nashville, plans reconstructing tracks on Fatherland St. from 2nd to 11th Sts., in Nashville. $50,000. J. P. W. Brown, gen. supt.

BIDS RECEIVED

California—City and San Francisco Co., from C. B. Eaton, 715 Ocean Ave., San Francisco, extending Sunset Line of municipal railway system (Judah St.), 140 lin.ft. standard double track (paved street) $6.75 per lin.ft.; 2,605 lin.ft. standard double track (unpaved street) $6.75, 240 lin.ft. standard single track (paved street) $3.37, 240 lin.ft. standard single track (unpaved street) $3.37, 14,328 sq.ft. basalt headed block pavement, $0.60, total $28,743.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Conn., Hartford—Plans confining Gully Brook in concrete conduit, Sect. 6. $30,000. R. N. Clark, Municipal Bldg., engr.

O., Cleveland — City, W. R. Hopkins, mgr. plans acquisition of land, dredging new channel, straightening Cuyahoga River and building new bridge; also improving lake front from Edgewater to Gordon Parks by constructing necessary bulkheads, fills, roads, boulevards, approaches and streets, about $2,000,000.

Tex., Brownsville—Cameron Co. making plans levees along Sardinas and Resaca Rivers to connect with levees of Hidalgo flood control project and extending to Willacy Co. line. $800,000. W. O. Washington, Brownsville, engr. W. E. Anderson, San Benito, consult. engr. Noted May 21.

BIDS DESIRED

N. Y., Albany—July 7, by R. K. Fuller, comr. Canals & Waterways, 55 Lancaster St., construction and repair work at Delta Dam, Erie Canal, Sect. 5, Contr. 229; adv. E. N.-R. June 11.

N. Y., New York — June 15, by Dept. Docks, Pier A, North River dredging between Piers 1 and 2, and removing old Pier 1, North River, Contr. 1859.

BIDS RECEIVED

Calif., Los Angeles — Los Angeles Co., 287,000 cu.yds. excav. to construct levees and rectification of lower East San Gabriel Channel, from D. A. Foley & Co., Wright-Callendar Bldg., Los Angeles, at $0.13 per cu.yd., total $37,310.

Calif., Richmond—City, dredging 100,000 cu.yds. in Inner Harbor, from Amer. Dredging Co., 255 California St., San Francisco, $0.30 per yd. Noted May 21.

CONTRACTS AWARDED

Okla., Marlow — Little Beaver D. D. 1, Stephens Co., draining and straightening 7.5 mi. Little Beaver Creek southwest from Grady Co. line, 88,000 cu.yd. excav., etc., to Oklahoma Dredging Co., 327 West 20th St., Oklahoma City, $27,865. Engrs. est. $30,000.

B. C., Vancouver—Hudson Bay Co., Granville and Georgia Sts., excavating and installing footings for foundation for big department store, to Carter-Halls-Aldinger Co., Behius Bldg., $80,000. Noted Jan. 8.

Streets and Roads

PROPOSED WORK

Mass., Beverly—Bd. Aldermen plans election appropriating $100,000 bonds improving and reconstructing various streets.

Mass., Dorchester (Boston P. O.)—Dept. Pub. Wks., Boston, plans constructing Walk Hill St. as highway, here. $25,000. J. F. Sullivan, secy. Street Laying Out Dept.

Pa., Johnstown—Plans brick on concrete or asphalt on rein.-con. paving Glass and 5th Alleys, Buck, Emmel, Coleman and Penna Aves., Sunday, Boyer and Stackhouse Sts. H. L. Wilson, City Hall, engr.

W. Va., Spencer—Roane Co. voted $75,-000 bonds grading Ripley-Spencer Rd., Curtis Dist. S. P. Whitney, Spencer, engr. Noted May 7.

North Carolina — State Hy. Dept., Raleigh, plans clearing, grubbing, grading, etc. 7.5 mi. Project 216, Craven Co., $52,500 and 16 mi. Project 406, Chatham and Wake Counties, $112,000; grading, etc., 4 mi. Project 204 Craven Co., $28,000. C. M. Upham, highway engr.

N. C. Beaufort—Carteret Co. plans paving 5½ mi. road from here to North River Bridge. $135,000. C. T. Chadwick, chn. co. comrs.

N. C., Elizabeth City—Pasquotank Co. plans paving 3.25 mi. road from Old Weeksville westerly to Simonds Creek. $75,000. J. J. Morris, chn. co. highway comn.

Fla., Cedar Key—Plans election $200,000 bonds, paving various streets. L. W. Drummond, clk.

Fla., Jacksonville — Duval Co. election July 7, $1,500,000 bonds, for roads and bridges. C. A. Broune, Orlando, engr.

Fla., Tampa — Hillsborough Co. plans paving portions of Hopewell Rd. $75,000, Magdalena Rd. $44,000, Hillsborough Ave $25,000, and Interbay Rd. between Beach Park and Grandy Bridge $33,000. A. B. Pimm, Court House, engr.

Streets and Roads (Continued)

Miss., Gulfport — Making preliminary plans grading, curbing and hardsurfacing 30 various streets. $464,530. H. D. Shaw, city engr.

Miss., Jackson — Voted $170,000 bonds, improving various streets. P. A. O'Brien, City Hall, engr., M. L. Culley, Jackson, consult. engr.

Miss., Jackson — Voted $400,000 bonds, improving various streets. M. L. Culley, Jackson, engr.

Miss., Meridian — Lauderdale Co. soon takes bids grading, bridging and gravel surfacing 13.3 mi. Federal Aid Project 63. $160,000. H. C. Deitzer, Jackson, engr.

Miss., Natchez — Voted $500,000 bonds, for street improvements. M. L. Culley, Jackson, engr. Noted Feb. 19.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 25 mi. LaFollette-Kentucky State Line Rd., Campbell Co.; grading and surfacing 12 mi. Cleveland-Hiwassee River Rd., Bradley Co., and surfacing, probably gravel 8 mi. Obion-Dyer Co. line Rd., Obion Co. J. G. Creveling, highway comr.

Tennessee—State Dept. Hys. & Pub. Wks. takes bids about June 26, surfacing, probably gravel 14 mi. Obion-Lanes Ferry Rd., Obion Co. J. G. Creveling, highway engr.

Tenn., Memphis — Plans widening and repaving 6 blocks Jefferson Ave. from Main to Lauderdale Sts., $75,000; also 6 blocks 3rd St. from Adams to Union Sts., at $14 per front foot. W. Fowler, city engr.

Ky., Louisville—Takes bids in June asphalt surfacing 25 blocks Ormsby, and Rubel Aves., Roselane, 17th, Cedar, 18th, 11th, Walnut, Market, Maple, and Marshall Sts., Griffiths Ave., from 23rd to 24th Sts. and Griffiths Ave. from 21st to 22nd Sts., concrete surfacing 2 blocks Campbell St. $200,000.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids in spring improving 2,574 ft. Dayton St., 7,550 sq.yd. vitr. brick, 4,900 lin.ft. stone curbing, 7,800 sq.ft. 4 in. concrete sidewalks, 2,800 cu.yd. earth excav., etc., $57,000; 1,344 ft. Damon St., 3,700 sq. yd. vitr. brick, 2,525 lin.ft. stone curbing, 10,900 sq.ft. 4 in. concrete sidewalks, 3,200 cu.yd. earth excav., etc., $30,200. E. A. Kemmler, Delaware Bldg., engr.

O., Canton — Plans improving Frazer Ave. N. W., $35,000, 16th St. N. E. $40,000, 16th St. N. W., $40,000, Maryland Ave. S. W., $60,000, Navarre Rd. S. W. $50,000-$60,000; asphalt paving Lafayette Ave. $45,000, Chery Ave. S. E., $50,000, and Sherrick Rd. $40,000. W. E. Sarver, City Hall, engr.

O., Massillon — Plans improving East Tremont St. $55,000. C. E. Rice, Massillon, engr.

O., Springfield—Clark Co., plans improving 12 mi. South Charleston Pike, 60 ft. $300,000.

Michigan — State Hy. Dept. at office Comrs. Washtenaw Co., Ann Arbor, received no bids May 28, concrete paving 1.189 mi. Trunk Line Rd. 23-13 B, 20 ft. Work will probably be done by day labor.

Mich., Detroit—Plans paving 2,685 sq.yd. Doremus Ave. $12,050, 2,250 sq.yd. Bonaparte Ave. $10,010, 1,070 sq.yd. Bedford Court $4,800, 5,680 sq.yd. Alter Rd. from Mack to Lozier Aves. $25,550, 8,360 sq.yd. Alter Rd. from Kercheval to Waterloo Aves. $37,490, 3,505 sq.yd. Ashland Ave. $15,745, 1,830 sq.yd. LaSalle Ave. $8,210, 6,080 sq. yd. Nevada Ave., Sect. 2 $27,370, 6,925 sq. yd. Riopelle Ave. $31,140, 2,620 sq.yd. Tyler Ave. $11,820, 2,240 sq.yd. Clarion Ave. $8,560, Dallas Ave. $7,790, 1,072 sq.yd. Southfield Ave., 3,243 sq.yd. Stoeple Ave., 8,625 sq.yd. Rosemary Ave., 837 sq.yd. Maderia Ave., 5,694 sq.yd. Klinger Ave., 1,102 sq.yd. Trenton Ave., 8,695 sq.yd. Marx Ave., 6,804 sq.yd. Philip Ave., Sect. 2, 6,615 sq.yd. Wayburn Ave., 11,481 sq.yd. Woodstock Dr., 1,967 sq.yd. Springle Ave., 1,502 sq.yd. Sallan Ave., 9,704 sq.yd. Conant Ave., Sect. 3, 5,615 sq.yd. Otsego Ave., and 2,088 sq.yd. Girardin Ave. G. Jerome, city engr.

Mich., Port Huron—Plans paving Tunnel St. $200,000, Wall St. $49,000, and 9th St. $10,000. E. R. Whitmore, city engr.

Ill., Olive — City having revised plans prepared rein.-con. surfacing Main and other streets. Holbrook, Warren & Van Praag, 416 Millikin Bldg., Decatur, engrs.

Ill., Windsor—Plans rein-con. paving business district and adjoining streets. $50,000. Holbrook, Warren, and Van Praag, 416 Millikin Bldg., Decatur, engrs.

Ia., Cedar Rapids—Plans asphaltic concrete surfacing 9,630 sq.yd. Greenwood, Ridgway and Fairview Drs. $25,000. T. F. McCauley, city engr.

Ia., Des Moines — Making preliminary plans grading, curbing, and sheet asphalt, asphaltic concrete, Willite, asbestophalt, Warrenite, vibrolithic concrete, concrete or brick surfacing East 17th St. from Dean to Walker Sts., $55,174 and West 44th St. from Sheridan to Hickman Sts., $12,024. K. C. Kastberg, City Hall, engr.

Ia., Sioux City—Making plans grading and paving about 2 mi. Riverside Ave., 20 ft. $67,000. L. N. Hintgen, city engr.

Kan., Dodge City — Making preliminary plans grading, curbing and brick on concrete surfacing 8 blocks Avenue B and East Chestnut St. Noted Feb. 14.

Kan., Hiawatha—Making preliminary plans paving various streets. $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Kan., Kansas City — Wyandotte Co. making plans asphaltic concrete surfacing 1.32 mi. Ridgeview Rd., and concrete surfacing 1 mi. Fort to Fort Highway, both 18 ft., to exceed $25,000. O. K. Williams, Court House, co. engr.

Kan., Oskaloosa—Jefferson Co. making preliminary plans grading, etc. 157,000 cu.yd. Federal Aid Project 276-C and D. R. C. Ham, Oskaloosa, engr.

Kan., Paola—Miami Co. making preliminary plans grading, etc. 10.25 mi., Federal Aid Project 293, 28 ft. F. Gardner, Paola, engr.

Kan., Wichita—Sedgwick Co. takes bids about July 1, grading, concrete surfacing, etc., 1.548 mi. Arkansas Ave., 18 ft. M. Roseberry, Court House, engr.

Missouri — State Hy. Dept., Jefferson City, making plans grading 9 mi. Savannah-St. Joseph Rd., Andrew Co., 7.1 mi. Kansas City-Joplin Rd., Barton Co., 9 mi. St. Joseph-Hannibal Rd., De Kalb Co., 3 mi. road from Springfield north and south, Greene Co., 9 mi. Savannah-St. Joseph Rd., Holt Co., 13.2 mi. Kansas City-Jefferson City Rd., Jackson Co.; 30 ft. grading 4.5 mi. road from Paris south, Audrain Co., 4 mi. Jefferson City-Springfield Rd., Camden Co., 4.5 mi. Cuba-Steelville Rd., Crawford Co., 10 mi. Springfield-St. Louis Rd., Laclede Co., 8.7 mi. St. Joseph-Hannibal Rd., Macon Co., 4.7 mi. road from Alton east and west, Oregon Co., 19.2 mi. road from Gainesville north and south, Ozark Co., 4.5 mi. St. Joseph Rd., Platte Co.; 12 ft. gravel surfacing 9.5 mi. road from Warrenton north, Warren Co.; 16 ft. gravel surfacing 4.8 mi. road from Van Buren east and west, Carter Co., 9 mi. Jefferson City-St. Louis Rd., Franklin Co.; 18 ft. gravel surfacing 3 mi. Columbia-Jefferson City Rd., Boone Co., 7.95 mi. road from Springfield east and west, Greene Co., 9 mi. road from Paris south, Monroe Co.; 20 ft. gravel surfacing 10 mi. Jefferson City-St. Louis Rd., Osage Co.; 18 ft. concrete paving 9 mi. Savannah-St. Joseph Rd., Andrew Co., 6.5 mi. Kansas City-Joplin Rd., Barton Co., 9 mi. St. Joseph-Hannibal Rd., De Kalb Co., 3 mi. road from Springfield north and south, Greene Co., 9 mi. Savannah-St. Joseph Rd., Holt Co., 13.2 mi. Kansas City-Jefferson City Rd., Jackson Co. B. H. Piepmeier, highway engr.

Mo., Cape Girardeau — Making preliminary plans grading, curbing, 4 and 6 in. rein.-con. paving 20 blocks North Spring, Bellevue, Park, Louisiana, Mill, North and South Pacific, Bway. and North Spanish Sts.

Mo., St. Louis—Bd. Pub. Serv., making preliminary plans recut granite block on concrete repaving, etc. Cass Ave. from Bway. to Hogan St. $115,000, Franklin St. from High to Jefferson Sts., $128,500; Warrenite, asphalt, Willite, shallow or standard granite block repaving Easton St. from Prairie to Marcus Sts., $125,000-$234,000; widening asphalt, Willite or Warrenite concrete repaving Jefferson St. from Arsenal to Cherokee Sts. $54,000-$64,000, Jefferson St. from Arsenal to Gravois Sts. $57,000-$67,500, Jefferson St. from Cherokee to Winnabago Sts., $49,500-$51,000, widening brick on Willite, Warrenite or asphalt repaving Jefferson St. from Lafayette to Gravois Sts. $92,000-$108,000; Warrenite, asphaltic concrete, asphalt or brick on concrete paving, etc. Arthur Ave. from Watson Rd. to McDermott's Watson Rd. Second addition, $22,000-$26,500; vibrolithic concrete, brick, Warrenite or Willite on concrete paving, etc. Blair Ave. from North Market to Wright Sts., $30,500-$37,500; brick, Warrenite, asphalt or Willite paving, etc. Blair Ave. from Biddle to North Market Sts., $71,500-$87,000; shallow granite block, Warrenite, asphalt or Willite paving, etc. Cardinal St. from Olive St. to Lucas Ave., $23,800-$35,200, asphaltic concrete, brick, concrete, asphalt, Warrenite or Willite paving, etc. Nagel Ave. from Missouri Pacific R.R. tracks to Michigan St., $20,000-$25,000, Willite, Warrenite or asphalt paving, etc. 22nd St. from Washington St. to Cass Ave., $64,500-$66,500. W. W. Horner, 300 City Hall, engr.

Mo., Clinton—Plans vibrolithic concrete paving additional streets. $25,000.

Mo., St. Louis—E. R. Kinsey, pres. Bd. Pub Serv. making preliminary plans grading and extending Skinker Rd. from Delmar Blvd. to Olive St. Rd. $27,000.

Arkansas—State Hy. Dept., Little Rock, making preliminary plans grading, gravel surfacing, etc., 10 mi. Federal Aid Project 203, Little River Co. $26,500. R. C. Limerick, highway engr.

Arkansas—State Hy. Dept., Little Rock, soon takes bids gravel surfacing approximately 25 mi. Warren-Star City Rd., Federal Aid Project 229, $225,000; 25 mi. Wynne-Harrisburg Rd., Federal Aid Project 217-A, $225,000; and 22 mi. Hope-Lewisville Rd., Federal Aid Project 215, $130,000. R. C. Limerick, highway engr.

Ark., Little Rock—Making preliminary plans grading, curbing and hard-surfacing, etc., Paving Dist. 413. $30,000.

Ark., Magnolia—See "Waterworks."

Tex., Anson — Jones Co., O. Thomas, judge, takes bids after June 15, grading and bridging 15.27 mi. State Highway 18, Federal Aid Project 477. $73,000. J. W. Puckett, Stamford, engr. Noted June 4.

Tex., Austin—Travis Co. making plans grading, curbing, bridging and bituminous on crushed stone surfacing 1.515 mi. State Highway 20, Federal Aid Project 478-B, 18 ft., incl. overpass over Missouri, Kansas & Texas R.R. tracks, $87,000; grading and bituminous macadam surfacing 4.1 mi. same road Sect. C, 18 ft., $65,500; grading, bridging and bituminous macadam surfacing 3.43 mi. same road Sect. D, 20 ft. $119,500. O. Leonard, Box 256, Austin, co. engr.

Tex., Bay City—Matagorda Co. making plans grading, bridging and shell surfacing 32.4 mi. State Highways 58 and 59, 18 ft. $375,000. E. N. Gustafson, Bay City, co. engr.

Tex., Beeville—Bee Co. plans bituminous surfacing 11.5 mi. State Highway 12 from Beeville to Berclair. $60,000. R. J. Beasley, co. judge. Engineer not selected.

Tex., Carthage — Panola Co. plans bridging, grading and gravel surfacing 7 mi. highway from Gary to State Highways 8, 16 ft. $52,000. Titus & Dillon, co., engrs.

Tex., Eastland—Eastland Co. plans bituminous macadam paving 12 mi. State Highway 23 from Cisco to Moran. $230,000. E. S. Pritchard, co. judge. Engineer not selected.

Tex., Galveston—Voted $150,000 bonds paving various streets and $125,000 bonds paving Bway. St. C. A. Holt, city engr. Noted May 7.

Tex., Halletsville — Lavaca Co. making plans gravel surfacing 11.07 mi. State Highway 72, State Aid Project 320-2, 16 ft. $81,700. W. H. Koether, Halletsville, co. engr.

Tex., Henrietta—Clay Co. making plans and soon takes bids grading, bridging, etc., 10.24 mi. State Highway 5, Federal Aid Project 449-B, $61,000; and 6.89 mi. State Highway 52, Federal Aid Project 448-B, $30,150, both 26 ft. D. M. Puckett, Henrietta, co. engr.

Tex., Hondo—Medina Co., R. J. Noonan, judge, takes bids after June 15, surfacing 1.56 mi. State Highway 3, Federal Aid Project 270-B, 14,614 yd. 1 in. and 270 yd. 1½ in. rock asphalt. $28,000. Walton & Arneson, Gunter Bldg., San Antonio, engrs. Noted June 11.

Tex., Hondo — Medina Co. soon takes bids 1 in. cold Uvalde rock asphalt paving 11.55 mi. State Highway 3, Federal Aid Project 270-A, 18 ft., $74,400; and 98,620 sq.yd. on same road Sect. C, 16 ft., $60,750. Walton & Arneson, Gunter Bldg., San Antonio, engrs.

Tex., San Antonio—Plans asphalt paving 3 blocks Market St. between Main Plaza to St. Marys St. $25,000. I. Ewig, city engr.

Tex., San Diego—Duval Co. soon takes bids grading, bridging, etc. 15.76 mi. State Highway 12-A, Federal Aid Project 424-E, 26 ft. $84,000. J. E. Hess, San Diego, engr.

Tex., Stamford—Making surveys paving various streets. $25,000. W. J. Powell, 311 Southwestern Life Bldg., Dallas, engr. Noted Jan. 29.

Tex., Vernon — Willbarger Co. making plans grading, bridging and bituminous concrete surfacing 6.97 mi. State Highway 5, Federal Aid. Project 451-B, 18 ft. $213,000. J. B. Nabors, Vernon, co. engr.

Tex., Wichita Falls—Making plans paving approximately 4 mi. roadway through new park from Holliday St. to Lake Wichita Falls Rd. $50,000. F. M. Rugeley, Wichita Falls, engr.

Oklahoma — State Hy. Dept., Oklahoma City, made surveys grading and gravel surfacing 280,000 sq.yd. Federal Aid Project 196, Haskell Co. $450,000. J. M. Page, highway engr.

Okla., Ada — Making plans grading and concrete paving 9,500 sq.yd. South Bway. $30,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs. Noted May 21.

Streets and Roads (Continued)

Okla., Ada — Making plans improving various streets. $75,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Okla., Chickasha—Plans grading, curbing and concrete paving 9,150 sq.yd. Dist. 27. $31,500. P. Bradley, Chickasha, engr.

Okla., Chickasha—Plans grading, curbing and concrete surfacing 8,800 sq.yd. Iowa Ave., Impvt. Dist 32, 30 ft. $28,000. R. G. Bradley, Chickasha, engr.

Okla., Clinton—Plans grading and sheet asphalt paving 5,300 sq.yd. North 10th St. and Choctaw Ave. $37,000. B. M. Hart, City Hall, city engr.

Okla., Guthrie — City, G. L. Anderson, clk., plans grading, curbing, and paving 21,300 sq.yd. Walnut, Vilas, Park, Noble, and Vine Sts. $72,300. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Holdenville — Plans grading and concrete surfacing 9,200 sq.yd. South Echo St., 28 ft. $31,000. C. H. Edge, Holdenville, engr.

Okla., Lexington — Making preliminary plans widening 5 blocks Main St., 76 ft. $30,000. B. Lee, city clk. Engineer not selected.

Okla., Lindsay—City, C. A. Hilyer, clk., making preliminary plans grading, curbing, guttering, and waterbound macadam surfacing 15,000 sq.yd. 2nd, 3rd, 4th, and Garvin Sts. $32,000. V. V. Long, 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Oklahoma City—Plans grading and vitr. brick surfacing 7,110 sq.yd. Ave. F, 30 ft. $35,000. B. Hart, City Hall, engr.

Okla., Noble—Making preliminary plans grading, curbing and concrete widening 8,600 sq.yd. Main St. $30,000. Engineer not selected.

Okla., Pauls Valley—Plans grading, curbing, and concrete paving 9,300 sq.yd. East Grant Ave. $33,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Sulphur—Plans grading and concrete surfacing 9,500 sq.yd. Impvt. Dist. 16. $30,000. E. T. Archer, New England Bldg., Kansas City, Mo., engr.

Okla., Tulsa—Cancelled improvements in Dist. 634, and will readvertise improvement streets in Dist. 639. C. Schultz, City Hall, engr.

Colo., Denver—Plans asphalt paving 12 blocks West Denver Paving Dist. 10. $74,280. A. K. Vickery, City Hall, engr.

Wash., Mt. Vernon — Comrs. Skagit Co. take bids about June 30, paving 2.25 mi. McLean Rd. $55,000. R. E. Knapp, Mt. Vernon, engr.

Calif., Los Angeles—Bd. Pub. Wks. takes bids about June 28, grading, curbing, guttering and asphaltic concrete paving 3,000 ft. Clifford and Curson Aves., 59th, Riveria, and Adobe Sts.; grading, curbing, guttering and asphaltic macadam paving 4,000 ft. Huntington Dr., Folsom St., Gorham Ave., and Los Feliz Blvd., also 3,000 ft. Normandie and Morle Aves., Roseland, Utah, and London Sts. To exceed $75,000. H. Van Norman, City Hall, engr.

Calif., Los Angeles — Plans grading, curbing, guttering, sidewalks and asphaltic macadam paving 5,000 ft. Laural, Canon Rd., Adams St., and Similey Dr. Impvt. Dist. $25,000 or more. H. A. Van Norman, City Hall, engr.

Calif., Los Angeles — Los Angeles Co. made plans improving Holmes Ave. between Slauson and Florence Aves., 2,600 cu. yd. excav., 38,228 sq.yd. shape, 38,228 sq.yd. 1½ in. National paving (top), 37,728 sq.yd. 3½ in. asphaltic concrete (base), 51,881 sq.ft. 6 in. cement gutters, 14,719 sq.ft. 8 in. cement gutters, etc.; also Market St. between Western and Normandie Aves., 2,104 cu.yd. excav., 8,079 sq.yd. shape, 5,366 ft. curbing, 26,050 sq.ft. sidewalks, 16,469 sq.ft. guttering, 11,053 sq.yd. 6 in. concrete paving, 7,026 sq.yd. oil and screenings, to exceed $30,000. C. H. Jones, Hall of Records, co. engr.

Calif., San Diego—Common Council plans improving G and 31st Sts., 5,021 cu.yds. embankment, 6,336 cu.yds. excav., 17,971 sq.ft. concrete sidewalks, 3,658 lin.ft. concrete curbing, 5,483 ft. guttering, etc.; also 30th St., 407,532 sq.ft. 5 in. concrete paving, 22,918 sq.ft. concrete sidewalks, 5,423 lin.ft. concrete curbing 5,834 cu.yds. excav., 1,367 yds. embankment, etc. F. A. Rhodes, city engr.

Calif., San Leandro — Soon takes bids improving East 14th St. between west city limits and San Leandro Creek, 77,450 sq.ft. grading, 77,200 sq.ft. 2 in. Warrenite bitulithic on 6 in. concrete and 3 in. macadam, etc. F. A. Nikirk, city engr.

Calif., Venice — Made plans improving Rialto Ave. between Lincoln and Electric Aves., 128,527 sq.ft. grading, 122,310 sq.ft. concrete paving, etc.; also Venice Blvd. between Electric and Lincoln Aves., 116,293 sq.ft. grading, 114,148 sq.ft. 7 in. concrete paving, etc. H. D. Chapman, city engr.

PAVING—TOPEKA, KAN.

Bids were opened by city, May 5, for paving various streets, (A) Kaw Paving Co., 609 New England Bldg., (awarded contract); (B) Globe Construction Co., Wichita; (C) J. Stanton, Leavenworth. The unit bids are as follows:

	A	B	C
58,597 sq.yd. asphaltic concrete paving, 7 in. concrete base	$2.45	$2.50	$2.55
83 sq.yd. 6 in. concrete alley paving	2.75	2.85	2.75
29,384 cu.yd. grading	.90	.95	.90
17,419 cu.yd. grading overhauled 1,000 ft. (per 500 ft.)	.04	.04	.05
31,253 lin.ft. 7x18 in. combined curb and gutter	.86	.87	.85
11,204 lin.ft. combined variable 7-12x18 in. curb and gutter	.97	1.00	1.00
6,350 sq.ft. new cement walk	.20	.20	.22
6,510 sq.ft. cement walk, relaid	.12	.15	.12
14,796 sq.ft. brick walk, relaid	.08	.10	.08
220 vert. ft. new 4 ft. manholes	7.50	9.50	9.50
29 standard cast iron manhole covers	17.00	16.00	16.00
68 standard 3 ft. catchbasins	34.00	35.00	35.00
13 standard 6 ft. catchbasins	50.00	50.00	50.00
6 lin.ft. manholes raised	3.50	4.00	4.00
8 lin.ft. manholes lowered	3.50	2.00	4.00
52 cu.yd reinforced concrete	22.00	23.00	23.00
58 sq.yd. asphaltic concrete paving removed	.20	1.00	.20
60 sq.yd. brick paving relaid, 7 in. concrete base	2.75	3.00	3.00
1,309 lin.ft. curb and gutter removed	.20	.35	.25
1,660 lin.ft. 10 in. vitrified culvert pipe	1.10	1.12	1.20
5,699 lin.ft. 12 in. vitrified culvert pipe	1.20	1.20	1.30
2,351 lin.ft. 15 in. vitrified culvert pipe	2.10	2.00	2.10
677 lin.ft. 18 in. vitrified culvert pipe	2.90	3.10	3.10
125 lin.ft. 36 in. vitrified culvert pipe	9.00	9.00	9.00
60 lin.ft. 2x3 ft. reinforced-concrete sewer	4.50	5.75	6.00
6 standard 3 ft. catchbasins rebuilt	25.00	30.00	30.00
26 lin.ft. corrugated iron culverts removed	1.00	.50	1.00
16,670 lb. ½ in. reinforcing bars over sewer trench	.05	.05	.06
15 standard 3 ft. catchbasin manholes, complete	60.00	60.00	60.00
2 standard 6 ft. catchbasins manholes, complete	75.00	70.00	70.00
440 lin.ft. 3x5 ft. reinforced concrete box	12.00	11.00	10.50
52 sq.ft. 8 in. brick wall, in place	.50	.60	.50
16 lin.ft. 4 in. I beams in place	1.00	.75	1.00
1 standard 3 ft. catchbasin manhole, less top	35.00	40.00	40.00
Extended totals	$243,750	$249,632	$251,194

Calif., Visalia—Making surveys 9 mi. roadway, from Doyles to Blach Park. L. Moye, Visalia, co. surv.

Calif., Willows—Plans paving 15 blocks various streets. To exceed $25,000. Engineer not selected.

BIDS DESIRED

N. Y., Brooklyn — June 17, by J. A. Guider, boro pres., Boro Hall, restoring and repaving where and when directed in various streets; asphalt repaving Alabama, Greene and Harrison Aves., intersections of Atlantic Ave. with Williams, Alabama, Georgia, Sheffield, New Jersey, Miller and Shepherd Aves., Vermont, Wyona, Bradford, Barbey, Jerome, Cleveland, Elton, Linwood and Essex Sts.; asphalt resurfacing with header method Lewis, Snyder, Tilden and 6th Aves., Rochester Ave. from Pacific to Bergen Sts., and Rochester Ave. from St. Johns Pl. to Eastern Parkway.

N. Y., New York—June 16, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Ave., grading, curbing sidewalks, etc. on West 180th St., Furman, Cruger and Montgomery Ave.; bituminous concrete paving Davidson Ave. and Giles Pl.

N. Y., Northport—June 16, by Bd. Village Trustees, concrete paving 5,100 ft. Scudder Ave., 4,300 lin.ft. Norwood Ave., and 3,600 lin.ft. Railroad Ave. J. W. Wells, Setauket, civil engr.

N. Y., St. George — June 17, by J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete repaving Hylan Blvd. and Court Pl.

N. Y., Yonkers—June 15, by Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, excavating, grading and retaining walls, etc., for driveway through Tibbetts Brook Park, here. J. Downer, ch. engr.; adv. E. N.-R. June 11.

N. J., Hopewell—June 16, by Freeholders Mercer Co. (Trenton), concrete paving 6,800 ft. Broad St., 50 ft., here. $118,000. H. F. Harris, Court House, Trenton, engr.

N. J., Plainfield—June 29, by Common Council, sheet asphalt paving, etc. 30,770 sq.yd. South Ave. A. W. Vars, city engr.; adv. E. N.-R. June 11.

Pennsylvania—June 23, by Dept. Highways, Harrisburg, bituminous on concrete or rein.-con. paving 38 mi. roads in Blair, Delaware, Fayette, Forest, Fulton, Huntingdon, Lebanon, Monroe, Schuylkill, Venango and Warren Counties. P. D. Wright, secy.; adv. E. N.-R. June 11.

Md., Baltimore—June 17, by Bd. Awards, grading, curbing and sheet asphalt paving all streets listed in Contr. 288-O. C. L. G. Turner, 214 East Lexington St., engr.

Delaware — July 1, by State Hy. Dept., Dover, grading and concrete paving, etc., 1.06 mi. 6th St., Contr. 54, and 0.447 mi. Washington St., Contr. CN25, both in New Castle, 0.966 mi. Valley Road-Pennsylvania Line, Contr. CN26, 4.87 mi. Christiana-Newark, Contr. CN27, 1.49 mi. Point Breeze School-Faulk Rd., Contr. CN28, and 7 mi. Willow Grove-Maryland Line, Contr. CK28; adv. E. N.-R. June 11.

W. Va., Fayetteville — July 6, by T. Boone, clk. Fayette Co., concrete or macadam surfacing 7 mi. Kincaid-Deepwater Rd., Project K-51, Kanawha Dist.; adv. E. N.-R. June 11.

S. C., Charleston — June 18, at office of Sanitary and Drainage Comn., Charleston Co., grading and concrete paving, etc. 25,000 various streets in St. Andrews Twp.

Georgia—June 26, by State Hy. Dept., East Point, shell or gravel surfacing 24,200 sq.yd. Bryan County Causeway, Federal Aid Project 177. B. P. McWhonter, Savannah, engr. W. R. Neel, highway engr.

Miss., Corinth—June 25, by J. A. Lowe, mayor and Bd. Aldermen, improving Webster, Cass, Madison, Childs, Franklin, Cruise, Waldron and Foote Sts. R. L. Totten, Inc., Brown-Marx Bldg., Birmingham, Ala., consult. engrs.; adv. E. N.-R. June 11.

Miss., Waynesboro—June 15, by Comrs. Wayne Co. at Chancery Clerk's office, grading, gravel surfacing, etc., 18 mi. Waynesboro-Laurel Rd., 18 ft. J. L. Wheless, Hattiesburg, engr. Noted May 21.

O., Akron — June 29, by Bd. Control, asphalt paving Merriman Rd. $40,000-$55,000, Cranz Pl. $30,000, Albion Ave. $60,000, Damon St. $55,500, 6th St. $70,000; improving Madison Ave., $50,000. H. Alcorn, City Hall, engr.

O., Lakewood (Cleveland P. O.)—June 20, grading, sodding, laying walks, driveway and steps, also retaining wall and water lines at Harding Junior High and Hayes Elementary Schools. To Exceed $25,000. C. W. Hopkinson, Rose Bldg., Cleveland engr.

Ind., Muncie—June 15, by Comrs. Delaware Co., Court House, concrete paving 2 in. Shaw Rd., Washington Twp., $20,000; and 1.5 mi. J. W. Dotson Rd., Perry Twp., $12,000, both 25 ft.

Michigan—June 13, by State Hy. Dept. at office Comrs. Iosco Co., Tawas City, graveling 6.41 mi. County Rd. from Hale to Long Lake Rd., 16 ft. Former bids rejected. G. C. Dillman, Lansing, ch. engr. Noted May 14.

Michigan—June 15, by State Hy. Dept. at office Comrs. Hillsdale Co., Hillsdale, graveling 8.674 mi. Assessment Dist. Rd. 248. G. C. Dillman, Lansing, ch. engr.

Michigan—June 15, by State Hy. Dept. at office Charlevoix and Emmet Counties, at Petoskey, concrete paving 0.584 mi. Trunk Line Rd. 11-46, A and B. G. C. Dillman, Lansing, ch. engr.

Michigan—June 18, by State Hy. Dept. at office Comrs. Alger Co., Munising, graveling 5.528 mi. State Trunk Line Rd. 77-1A. G. C. Dillman, Lansing, ch. engr.

Michigan—June 18, by State Hy. Dept. at office Comrs. Huron Co., Pigeon, graveling 4.45 mi. Assessment Dist. Rd. 2. G. C. Dillman, Lansing, ch. engr.

Mich., Port Huron—June 17, by E. C. Fitzpatrick, city clk., concrete paving 21,450 sq.yd. 13th St. from Water to Francis Sts., and from Varney to Minnie Sts. $75,000. E. R. Whitmore, City Hall, engr.

Mich., Royal Oak — June 15, by P. H. Beauvais, city mgr., vibrolithic concrete paving 25,000 sq.yd. Royal Oak St. $75,000.

Illinois—June 23, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield,

Streets and Roads (Continued)

Portland cement, vitr. brick or bituminous concrete surfacing 0.34 mi. Route 1, Sect. 7-X, Edwards Co., 6.11 mi. Route 3, Sect. 1, Morgan Co., 5.18 mi. Route 3, Sect. 2, Morgan and Cass Counties, 0.2 mi. Route 18, Sect. 15-X, De Kalb Co., 0.23 mi. Route 21, Sect. 6, Lake Co., 5.15 mi. Route 36, Sect. 2, 5.24 mi. Route 36, Sect. 3, and 4.67 mi. Route 36, Sect. 4, all Hancock Co., all foregoing 18 ft. wide; grading 3.39 mi. Route 1, Sect. 43-A, Saline Co., 55,240 cu.yd. excav., 0.76 mi. Route 9, Sect. 30-A, Hancock Co., 16,530 cu.yd. excav., 0.49 mi. Route 13, Sect. 12-D, Jackson Co., 26,230 cu.yd. excav., 8.61 mi. Route 31, Sect. 18-A, Fulton Co., 192,435 cu.yd. excav.; also 15,442 ft. guard fence on Route 1, Sect. 16-G, Lawrence Co. and 18,922 ft. guard fence on Route 12, Sect. 9-G, Clay Co. F. T. Sheets, ch. highway engr.

Ill., Kewanee—June 18, by City Clerk, grading, curbing, sewers, and granite top on rein.-con., rein.-con., brick or Warrenite bitulithic paving 4,020 sq.yd. Beach St., incl. 830 ft. 10 and 12 in. storm sewers, etc.; 2,810 sq.yd. Birch St., incl. 255 ft. 10 and 12 in. storm sewers, etc.; and 4,300 ft. Tremont St., incl. storm sewers, etc. Approximately $40,000. J. G. Palmer, City Hall, engr. Noted Apr. 2.

Kan., Newton—June 16, by A. Martin, city clk., grading, curbing, and brick surfacing 8,217 sq.yd. various streets. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs. Noted May 28.

Neb., Alma—June 15, by E. E. McKee, city clk., curbing, guttering and paving streets in Dist. 1. $75,000. Bruce & Grupe Eng. Co., 710 Bankers Reserve Life Bldg., Omaha, engrs.

Neb., Stella—June 22, by C. Haskin, city clk., curbing, grading, guttering and gravel surfacing streets in Dist. 1. $36,000.

North Dakota—June 19, by State Hy. Comn. and Comrs. Nelson Co. at Court House, Lakota, graveling, etc., Federal Aid Project 169 AB, from Pekin north 17.5 mi.

Texas — June 29, by State Hy. Comn., Austin, surfacing 1001 mi. State Highway 3, Federal Aid Project 35-A and C, 98,538 sq.yd. 1½ in. triple inverted penetration bituminous macadam topping, $62,000, and 5.13 mi. same road Sect. B, 51,180 sq.yd. bituminous macadam and 7,712 sq.yd. gravel, $57,000, both at Sequin, Guadalupe Co. L. Taylor, Sequin, engr. Noted Dec. 4.

Tex., Jourdanton—June 19, by J. V. Curnutte, engr., Jourdanton, rock asphalt surfacing 16,548 yd. State Highway 2, Federal Aid Project 332, for Atascosa Co. $30,000. Noted June 4.

Oklahoma—June 15, by State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project)**, grading, etc., 9 mi. Weleetka-Wetumka Rd., F. A. P. 138, Hughes Co. $90,000, 4 mi. Guthrie Rd., F. A. P. 141, Logan Co. $35,000, 9 mi. Orlando Rd., F. A. P. 139, Logan Co. $90,000, 14 mi. Purcell-Paola Rd., F. A. P. 82, McLean Co. $140,000, 11.5 mi. Keystone-Cleveland Rd., F. A. P. 178, Pawnee Co. $135,000, 4.5 mi. Collinsville Rd., F. A. P. 111, Tulsa Co., $45,000; concrete surfacing 5 mi. Henryetta Rd., F. A. P. 168, Okmulgee Co., $115,000, all above 30 ft. wide. J. M. Page, highway engr.

Okla., Clinton — June 19, by W. A. Shouse, city clk., grading and concrete surfacing, etc., 10,350 sq.yd. North 9th and South 7th Sts., $36,300. B. M. Hart, City Hall, Oklahoma City, engr.

Washington — June 23, by State Hy. Comn., Olympia, clearing, grading and surfacing 6.5 mi. State Rd. 1, King Co.; clearing, grading and crushed rock or gravel surfacing, etc., approximately 3 mi. State Rd. 21, Kitsap Co.; clearing, grading, etc., approximately 3.1 mi. State Rd. 8, at Government Slide, Skamania Co., and approximately 3.1 mi. State Rd. 12, Cowlitz Co.; gravel surfacing 8,650 cu.yd. State Rd. 8, Clark and Skamania Counties; crushed gravel surfacing approximately 5.3 mi. State Rd. 2, Kittitas Co. J. W. Hoover, highway engr.

Calif., Los Angeles—June 22, by Supervs. Los Angeles Co., improving 2,588 ft. Anaheim Telegraph Rd., Contr. 246, 413 lin.ft. curbing, 2,572 sq.ft. guttering, 3,297 sq.ft. sidewalks, 20,227 cu.ft. excav., etc. $33,500. G. Jones, Hall of Records, engr. Noted May 14.

Ont., Port Hope — June 15 (extended date), by M. U. Ferguson, city engr., asphalt, concrete or bituminous concrete paving, etc. various streets. $90,000.

Ont., Toronto—June 15, by F. B. Goedike, engr. York Twp., 40 Jarvis St., concrete sidewalks on St. Johns Rd., Short St., Almeda, Ramsden, Arnadale, Schell, Waller, Lessard and Larkin Aves. $25,000.

BIDS RECEIVED

New Hampshire—State Hy. Comn., State House, Concord, May 29, graveling 0.76 mi. highway in Randolf and 0.83 mi. in Colebrook, from T. Melloy, Gorham, $13,555 and $15,290 respectively, 0.71 mi. highway in Newbury, from Peckman Road Corp., Farmington, $8,387; rein.-con. surfacing 1.63 mi. highway in Concord, from Winslow & Cummings, Nashua, $52,280. Noted June 4.

Massachusetts—Dept. Pub. Wks., bituminous macadam surfacing 2,900 ft. highway in Barre, and 2,900 ft. highway in New Braintree, from J. Lorenzie, Leominster, $16,977 and $13,351 respectively, 8,200 ft. highway in Billerica, from Greenough Constr. Co., South Acton, $59,973, 5,150 ft. highway in Dedham, from Reynolds Bros., Inc., 179 Summer St., Boston, $29,579; bituminous concrete surfacing 16,720 ft. highway in Barnstable, from Lane Constr. Corp., Meriden, Conn., $64,200; widening with borrow 12,196 ft. highway in city of Revere and town of Saugus, from M. McDonough, Swampscott, $38,560. Noted June 4.

Mass., Boston—Dept. Pub. Wks., sheet asphalt or bitulithic paving Riverway Rds., from J. C. Coleman & Sons Co., 1620 Tremont St., Roxbury, $60,610.

Mass., Medford — Surfacing Middlesex Fells Parkway, Wellington Bridge Sect., from Rowe Contr. Co., 1215 Centre St., Jamaica Plain, $210,140, engrs. est. $25,000; same parkway, Westerly Roadway Sect., from J. H. Fannon, 28 Hinckley St., Somerville, $21,850, engrs. est. $25,000.

N. Y., Buffalo—From Standard Paving Ltd., Buffalo, Mexican asphalt paving Fenton St. $19,525; from H. P. Burgard Co., 1968 Filmore Ave., standard asphalt paving East Hertel Ave. $37,756, Montcalm St. $8,424, Rapin Pl. $5,200, Stevenson St. $4,720, West Woodside $10,028, Woodside Ave. $16,384; from Rock Asphalt Constr. Co., Morgan Bldg., standard asphalt paving Brinkman St. $28,466, Germania St. $26,529, Holmes Ave. $10,205, Leroy Ave. $87,763, Montana Ave. $28,141, Nevada Ave. $29,633, Stevenson St. $4,720, and Sunset St. $21,601.

New Jersey—State Hy. Dept., Trenton, concrete paving 8,370 sq.yd. Route 5, Sects. 11 and 8A, Warren Co., from W. A. Connell, 722 Garden St., Hoboken, $27,774; 11,866 sq.yd. Route 20, Sect. 3, Gloucester Co., from Freehold Constr. Co., Freehold, $51,091. Noted May 21.

N. J., Newark — Bd. Freeholders Essex Co., grading and rein.-con. paving Clinton Rd., from J. Dorer, 644 Nye Ave., Irvington, $71,318. Engrs. est. $80,000.

Maryland — State Roads Comn., Baltimore, sheet asphalt paving 0.76 mi. Contr. BC-56, Baltimore Co., from Baltimore Asphalt Block & Tile Co., 1320 North Munroe St., Baltimore, $59,658; concrete paving 1 mi. Contr. S-23, Somerset Co., and 1.04 mi. Contr. WO-43, Worcester Co., from St. Michaels Constr. Co., St. Michaels, $24,018 and $27,623 respectively. Noted May 14.

Md., Baltimore—Bd. Awards, sheet asphalt paving 11,370 sq.yd. Contr. 285-OCNA, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $54,428.

Florida — State Rd. Dept., Tallahassee, clearing, grubbing, grading, etc., 10.82 mi. road from Palatka to Clay Co. line, from J. N. Gillis & Son, St. Augustine, $62,394.

O., Cleveland — Cuyahoga Co., paving Story Rd., from Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, macadam $39,354; from Cleveland Trinidad Paving Co., The Arcade, concrete $41,051. Engrs. est. $49,600.

Mich., Detroit — From Detroit Asphalt Paving Co., 909 Free Press Bldg., sheet asphalt paving 18,300 sq.yd. Lakewood Ave., Sect. 2 $81,179, 14,705 sq.yd. Wyoming Ave., Sect. 5 $59,885, 13,880 sq.yd. Wyoming Ave., Sect. 6 $55,613, 2,020 sq.yd. Georgia Ave., Sect. 3 $9,113, 3,540 sq.yd. Georgia Ave., Sect. 4 $16,399, 2,540 sq.yd. Balmoral Ave. $11,479, 928 sq.yd. Wildemere Ave. $4,508, 938 sq.yd. Lucky Pl. $4,614; from Cleveland Trinidad Paving Co., 402 Hammond Bldg., 2,850 sq.yd. Ford Ave., $12,644; from M. R. Hanna Co., 2700 Six Mile Rd., 5,030 sq.yd. McLean Ave. $22,450, 2,550 sq.yd. Penrose Ave. from Bryson to Bauman Sts. $10,365, 4,875 sq.yd. Penrose Ave. from Carmon to alley east of Derby Ave. $20,636, 9,275 sq.yd. La Salle, Ave. $41,484.

Ill., Blue Island — Grading, curbing and concrete surfacing 16,000 sq.yd. various streets, from Central Constr. Co., Chicago Heights, $57,251. Noted May 21.

Ill., Wyoming—Stark Co., grading, curbing and paving West and East Williams and 7th Sts., from H. A. Reschke & Co., Geneseo, $51,662. Engrs. est. $67,000.

Wisconsin—State Hy. Comn., at office, 1st Natl. Bank Bldg., Superior, clearing, grubbing, bridging and grading 34,000 cu.yd. White River Hill Rd., Federal Aid Project 405-A, Ashland Co., from D. H. Clough & Co., 405 Palladio Bldg., Duluth, Minn., $42,914. Noted May 14.

Wis., Milwaukee—Bd. Pub. Wks., May 27, asphalt resurfacing Chicago, Detroit, Huron, Erie and Buffalo Sts., from H. J. Glover & Son, Schwartz Bldg., Kenosha, $28,709, Wright St. between 45th and 46th Sts., also 44th St. between Clark and Center Sts., from Badger Constr. Co., 97 Wisconsin St., $4,336 and $6,308 respectively; vibrolithic concrete paving 56th St. between Vine St. and Washington Blvd., also concrete paving 1 alley, from A. E. Retzlaff, 868 Island Ave., $6,070 and $2,079 respectively; sheet asphalt paving Graham St. between Russell and Pryor Aves., from White Constr. Co., 68 Wisconsin St., $2,456; grading Lake St. between 23rd and 27th Sts., from E. Radtke, 1405 Louis Ave., $2,432; concrete paving 1 alley each from Bodemann Constr. Co., 691 48th St., $1,280, from Parkinson Constr. Co., 322 27th St., $1,534, from C. H. Slatterly, 584 71st Ave., $3,242, from G. W. Hirth, 1309 7th St., $1,251, from Rybach & Sadowski, 1092 2nd Ave., $3,211, two alleys, from F. W. Blodgett, 521 Newton Ave., $7,887. Noted May 21.

Montana — State Hy. Comn., Helena, May 26, grading and gravel surfacing 6 mi. Flint Creek Rd. between Drummond and Hall, Granite Co., also resurfacing 22.5 mi. Yellowstone Trail, east of Billings, Yellowstone Co., from Fitzgerald & Staunton, Great Falls, $30,383 and $38,400 respectively. Noted May 14.

Missouri—State Hy. Dept., Jefferson City, from C. G. Oglesby, 1856 Union Ave., Memphis, Tenn., grading 1.657 mi. St. Louis-Sikeston Rd., Scott Co. $1,426, 1.629 mi. St. Louis-Sikeston Rd., Cape Girardeau Co., $1,168, from List & Weatherly, 416 Ry. Exch. Bldg., Kansas City, 3.172 mi. St. Joseph-Hannibal Rd., Marion Co. $16,677, 1.932 mi. road from St. Joseph north, Buchanan Co. $18,757, 4.129 mi. Savannah-St. Joseph Rd. $13,764, 4.46 mi. same road $20,027, both in Andrew Co.; from Capitol Constr. Co., 1207 Cherry St., Des Moines, Ia., 18 ft. concrete paving 8.589 mi. Savannah-St. Joseph Rd., Andrew Co. $82,546, 4.163 mi. St. Joseph-Hannibal Rd., Marion Co. $41,759, 1.932 mi. road from St. Joseph north, Buchanan Co. $18,558; from Gaines Bros. Co., Fairland, Okla., 30 ft. grading 8.014 mi. road from Columbia north, Boone Co., $55,289, from Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, 4.88 mi. Jefferson City-Tuscumbia Rd., Miller Co. $34,806, 0.746 mi. Glover-Listerville Rd., Reynolds Co. $7,408, from Service Constr. Co., Poplar Bluff, 9.863 mi. Garwood-Leeper Rd., Reynolds Co. $53,944, from M. E. Gillioz, Monett, 3.766 mi. St. Louis-Springfield Rd. $22,851, 3.649 mi. road from Rolla west, $35,817, both in Phelps Co.; from F. C. Teach, Morroco, Ind., 16 ft. gravel surfacing 8.152 mi. Memphis-Baring Rd., Scotland Co., $82,540, from J. C. Carlson, Macon, 7.936 mi. road from Edina south, Knox Co., $70,145; from Robertson Carmean Constr. Co., Caruthersville, grading 7.313 mi. St. Joseph-Hannibal Rd., $50,455, 18 ft. concrete paving 6.722 mi. St. Joseph-Hannibal Rd., $63,146, both in Marion Co., 1.629 mi. St. Louis-Sikeston Rd., Cape Girardeau Co. $19,345, 1.657 mi. St. Louis-Sikeston Rd., Scott Co., $22,918; from C. Jobe, Clarksburg, 20 ft. gravel surfacing 4.98 mi. Jefferson City-Kansas City Rd., $32,592, 4.95 mi. road from Lipton east and west, $30,979, both in Moniteau Co., from Summerfield Jones Co., Billings, 6.734 mi. road from West Plains east and west, Howell Co., $17,677; from Maney Bros. & Co., Oklahoma City, Okla., and Campbell Bros., Kansas City, 30 ft. grading 1.203 mi. Jefferson City-Tuscumbia Rd., Miller Co., $30,129; from Midwest Eng. Co., Mt. Vernon, Ill., grading and 18 ft. concrete paving 1.411 mi. road from Spikard north, Grundy Co. $16,264, grading and 9 ft. concrete paving 10.576 mi. road from Princeton north and south, Mercer Co., $110,193; from Pittsburg-Des Moines Steel Co., Tuttle and Southwest Sts., Des Moines, Ia., 30 ft. grading Memphis-Baring Rd., Scotland Co., $3,581; from C. P. O'Reilly & Co., Wainwright Bldg., St. Louis, 16 ft. gravel surfacing 4.65 mi. road from Edina south, Knox Co. $34,186, from B. D. McColly & Son, Rensselaer, Ind., 2.306 mi. La Grange-Marion Co. Line Rd., Lewis Co., $27,816; from L. A. Woods Constr. Co., Smithville, 18 ft. gravel surfacing 4.345 mi. road from Mexico east, Audrain Co. $25,962, from Farrell & Doubrouilett, Linn, 4.969 mi. Mexico-Vandalia Rd., Audrain Co., $38,745; from F. Kersting Co., Jefferson City, 20 ft. gravel surfacing 3.706 mi. Jefferson City-Kansas City Rd., Moniteau Co., $30,-

Streets and Roads (Continued)

782; from B. Loyton, Kirksville, grading 2.19 mi. road from Princeton south, Mercer Co., $6,266; from H. Hoffman Constr. Co., Carbondale, Ill., 18 ft. concrete paving 3.651 mi. St. Louis-High Ridge Rd., Jefferson Co. $67,309, from Montague Constr. Co., Fenton, and F. Kersting Co., Jefferson City, 3.891 mi. same road, $103,833; from Pickus Eng. Constr. Co., St. Louis, 3.891 mi. same road, $11,460, from List & Hallett, Kansas City, 3.651 mi. same road, $63,527. Noted May 14.

Ark., Arkadelphia—City, May 25, grading, curbing and surfacing various streets in Paving Dist. 2, from P. H. Connelly Paving Co., Southern Trust Bldg., Little Rock, oil asphalt, $70,692; from G. W. Nichols, Hot Springs, concrete, $71,308; from Kugen & Hansen, Ottawa, Kan., brick, $77,500. Noted May 21.

Tex., Anderson — Grimes Co. grading, bridging, etc., 6.71 mi. State Highway 6, Federal Aid Project 471 B, from Womack Constr. Co., Sherman, $57,068. Engrs. est. $65,000.

Tex., El Paso — El Paso Co., grading, widening and surfacing Federal Aid Project 439-E, 18 ft., from El Paso Bitulithic Co., Peidras R.R. tracks, $283,896. Noted Apr. 30.

Tex., Laredo—Webb Co. grading, curbing, guttering, bridging, concrete paving underpass 10.78 mi. State Highway 12 A, Federal Aid Project 436 A, from H. B. Zachary, Laredo, $80,884. Engrs. est. $89,950.

Tex., Linden—Cass Co. clearing, grubbing, grading, bridging, etc., 6.8 mi. State Highway 48, Federal Aid Project 457-C, 26 ft., 76,964 lb. reinforcing, etc., from G. G. and C. W. Burgess, Iowa Park, $57,789. Engrs. est. $69,275. Noted May 7.

Okla., Ponca City—Grading, curbing and vertical fibre brick surfacing 17,360 sq.yd. South Ave., from R. H. Baldwin, 109 East Grand Ave., $84,188. Engrs. est. $90,000. Noted Apr. 30.

Wash., Seattle — Bd. Pub. Wks., from Loveberry & Watson, 102 West Boston St., improving 12th Ave. et al., 2,200 lin.ft. concrete sidewalks at $1.50 per ft., 60,500 cu. yd. excav. $0.53, etc., total $172,911. Engrs. est. $169,787.

Calif., Alhambra — Curbing, sidewalks and asphaltic concrete paving 300,715 sq.ft. Main St. between Wilton Ave. and Fremont St., from G. H. Oswald, 366 East 58th St., Los Angeles, $82,895; concrete paving, etc. 324,332 sq.ft. Main St. between Wilton Ave. and east city limits, from O. U. Miracle, 227 Avenue D, Redondo Beach, $85,745. Noted May 28.

Calif., Oakland—From Oakland Paving Co., 5000 Bdway., Oakland, East 14th St., etc. 1,049,184 sq.ft. grading at $0.05 per sq.ft. 1,014,959 sq.ft. 2 in. Warrenite bitulithic on concrete paving $0.285, etc. total $449,051.

Calif., Redwood City — For 5 in. vibrolithic concrete paving 197,000 ft. El Camino Real, from W. A. Dontanville, Box 65, Salinas, $54,830.

Calif., San Bernardino—San Bernardino improving road from Santa Ana to Redlands 3 mi. concrete paving, and 2.5 mi. asphaltic concrete surfacing, etc., from Basich Bros., 3783 South Vermont St., Los Angeles, $119,879.

Calif., San Diego—Common Council, from G. R. Daly, 4430 Boundary St., improving Couts, Bandini and Orizaba Sts., 675 cu.yd. $1.10 per cu.yd., 913 cu.yd. embankment $1.10, 97,354 sq.ft. 4 in. asphaltic concrete paving $0.159, 3,821 lin.ft. concrete curbing $0.65; 18,744 sq.ft. concrete sidewalk, $0.22, total $26,242.

Calif., Santa Barbara — Santa Barbara Co., paving 2.4 mi. road from end Lompoc-Harris Rd. to present Harris Sta., from Southwest Paving Co., Washington Bldg., Los Angeles, $37,770.

CONTRACTS AWARDED

Conn., Hartford—Concrete paving 3,630 sq.yd. Ridgefield St., and rein.-con. paving 6,120 sq.yd. Westbourne Parkway, to Immick Co., State St., Meriden, $39,241. Noted June 4.

N. Y., Long Island City —M. E. Connolly, pres. Queens, Queens Subway Bldg., to grading, curbing and sidewalks on Bway. to Gifford Constr. Co., Fulton St., Jamaica, $13,260, Delta Pl. and Folsom Ave., to Highways Impvt. & Repair Co., 50 Church St., New York City, $16,807 and $21,181 respectively, Pulaski St., to C. Kurth, 9519 126th St., Richmond Hill, $7,955; grading sidewalks, etc., on 44th Ave., to Peace Bros., Inc., 20 Main St., Flushing, $1,962; grading, curbing, sidewalks on Beach 90th St., to J. D'Amata, Rockaway Beach, $8,783. Noted June 4.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., sheet asphalt paving 135th St., to Asphalt Constr. Co., 208 Bway., $104,904; granite block repaving Canal St., to J. Meehan & Son, 74 Cortlandt St., $54,976. Noted June 4.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Richmond Rd., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $13,743. Noted June 4.

N. J., Perth Amboy—Asphalt block paving Washington St., to Standard Bitulithic Co., 50 Church St., New York City, $28,403.

Pa., Phila. — Bureau Hys., Dept. Pub. Wks., to T. C. Flannagan, 531 East Girard St., grading Belden, Englewood, Fanshawe, Frantenac, Godfrey, Kerper, Knorr, Large, Loretta, Princeton, Summerdale, Tyson and Unruh Sts. $49,926, Fanshawe, Gilham, Hellerman, Levick, Magee and Tabor Sts. $9,726, Shelmire and Whitaker Sts. $4,593, to T. Conner, 3621 North 5th St., Cambridge, Linden and Torresdale Sts. $14,943, to T. P. Lee, 5629 Cherry St., Malvern and 66th Sts. $2,401, Montgomery St. $8,100, to F. Mark Contg. Co., 2820 North 21st St., Phil-Ellena St. $7,437, to McCarrick Bros., 3138 North 24th St., 20th St. $9,277; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving Boyer, Blakemore and Hortter Sts. $39,441, to Union Paving Co., 30th and Locust Sts., Buist St. $8,416, Montana St. $9,944, 65th St. $15,246, to Eastern Asphalt Co., 1504 Pennsylvania Bldg., Edgemore St. $9,033, Montgomery St. $4,843, to Barber Asphalt Co., 739 North 30th St., Fairhill and Wingohocking Sts. $6,279, Upland Way $21,934, Weatham St. $6,824, 71st St. $3,635; to United Paving Co., Real Estate Trust Bldg., redressed granite block paving York Rd. $12,647, to C. G. Centrone, Jefferson Bldg., 2nd St. $21,302; to Municipal Paving Co., 702 Catherine St., grading, paving and improving Rising Sun St. $127,786; to Fish-Rutherford Co., 2313 Walnut St., country road improving, Fairthorne, Ivins, Lawnton, Mathias, Parker, Penchin and Pembrook Sts., $29,141; to Vare Constr. Co., 1120 Race St., grading Pattison and 7th Sts., $395,810. Grand total $818,684.

Maryland — State Roads Comn., Baltimore, graveling 1.25 mi. Contr. S. M.-34, St. Marys Co., and 2 mi. Contr. P-57, Prince George Co., to St. Marys Constr. Co., Mechanicsville, $8,764 and $17,950 respectively, 1.5 mi. Contr. SM-33, St. Marys Co., to T. B. Lewis & Son, Hyattsville, $11,959; sheet asphalt paving 0.73 mi. Contr. BC-55, Baltimore Co., P. Flanigan & Sons, Harford Rd. and Baltimore and Ohio R.R., $85,996; concrete paving 0.5 mi. Contr. WI-31 Wicomico Co., to St. Michaels Constr. Co., St. Michaels, $11,177; concrete shoulders on 4.15 mi. Contr. CE-11 A, Cecil Co., the Broad Creek Constr. Co., Elkton, $17,270; 2.5 mi. Contr. A-2-A, Allegany Co., to T. D. Claiborne Co., Garrett Bldg., Baltimore, $20,803, 1.2 mi. Constr. M-141-B, Montgomery Co., to Patapsco Eng. & Constr. Co., New Amsterdam Bldg., Baltimore, $14,194, 8 mi. Contr. WI-6-A, Wicomico Co., to Hannemann-Burroughs Co., Salisbury, $37,788, 4.25 mi. Constr. F-5-A, Frederick Co., to Poffenberger & Mause, Meyersville, $41,615, 4.5 mi. Contr. T-2-A, Talbot Co., to J. K. Flick, Sudlersville, $46,035, and 4.75 mi. Contr. M-3-A, Montgomery Co., to Cranfrod Co., 3056 St., Wash., D. C., $44,253. Grand total $357,804.

Md., Baltimore — Bd. Awards, grading and sheet asphalt paving 17,900 sq.yd. Contr. 283-OA, to Amer. Paving & Contg. Co., Montebello Ave., $86,940; granite block paving, etc., Contr. 284-OC, to Arundel Constr. Co., Knickerbocker Bldg., $31,575. Noted May 28.

North Carolina — State Hy. Comn., Raleigh, grading and concrete paving, etc., 11.7 mi. Project 953-B, Jackson Co., to E. T. Belote, Asheville, $322,548, 8.07 mi. Project 967, Macon Co., to Wilson Constr. Co., Rutherfordton, $233,650; grading and asphalt on concrete paving, etc., 9.3 mi. Project 660, Mecklenburg Co., to Noll Constr. Co., Charlotte, $305,509. Grand total $861,707. Noted May 21.

South Carolina—See "Bridges."

Fla., Tampa—Hillsborough Co. rein.-con. paving El Prado Blvd., to Rickets & Haworth, Tampa, $120,000.

Miss., Jackson—Improving Fortification, Monument, Pascagoula, Roach, Amite, North State, Mill Sts., etc., 64,817 ft. 8 in. curbing and guttering, 36,393 sq.yd. paving, 5,950 ft. back gutter, 10,708 ft. 4 in. tile drain, and 13,870 cu.yd. grading, to Hays & Lewis, Jackson, $98,971.

La., Homer — Claiborne Parish grading and gravel surfacing 6.5 mi. Junction City-Homer Highway, 18 ft., to L. M. Wimberly & Co., Arcadia.

La., Minden — Grading, curbing and paving with 1-2-3 concrete mix 2 alleys, Monroe and Pearl Sts., to McGuire & Cavender, Minden, $2.44 per sq.yd.

O., Akron — Grading, curbing, laying sidewalks and vitr. brick paving 5,100 sq. yd. Merriman Rd., and 3,870 sq.yd. Ecton Rd., to T. E. McShaffrey Constr. Co., 173 South Forge St., $24,988 and $27,674 respectively. Engrs. est. $31,700 and $35,500 respectively. Noted June 4.

O., Bexley (Columbus P. O.) — S. W. Roderick, village clk., to A. G. Fugh, 401 Commerce Bldg., grading and asphalt paving, etc., 700 ft. Meadow Park Ave. $11,982, 1,650 ft. Remington Rd. $24,436, 2,360 ft. Brentwood Rd. $27,168, 2,500 ft. Cassingham Rd. $32,761, 2,500 ft. Montrose Ave. $36,921, 1,650 ft. Roche Ave. $22,919, and 1,600 ft. Vernon Ave. $21,743, all foregoing 24 ft. Grand total $177,930. Noted May 21.

O., Cleveland—To Winterbottom & Connelly, 1406 West 25th St., grading, curbing, guttering and brick paving Granby Ave. $15,334, to Bentley Bros., 3030 Euclid Ave., East 133rd St. $9,514, to H. G. Herring, Pavers—Exchange, asphalt paving, etc., Wickford Rd. $20,578, to Enterprise Paving & Constr. Co., 8444 Bway., Ella Ave. $8,354, to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, West 169th St. $10,625, Nelson Ave. $51,564, Melzer Ave. $30,525, Lardet Ave. $22,231, Ernest Ave. $7,396, to Roehl Bros., 7002 Denison Ave., West 127th St. $14,779, brick paving, etc., West 126th St. $14,775, Erin Ave. $14,396, to Baldwin Bros., 4500 Euclid Ave., St. Clair Ave. from East 140th to East 152nd Sts. $75,019, to River Constr. Co., 2402 Mapleside Rd., St. Clair Ave. from London to Nottingham Rds. $66,043. Grand total $361,133. Noted June 4.

O., Columbus—W. H. Duffy, dir. Pub. Serv., to Federal Paving Co., 996 McAllister Ave., grading, laying necessary water services and sewer connections and concrete paving, 193 ft. alley West Bruck St. $1,266, 332 ft. alley North 8th Ave. $1,919, 197 ft. alley north 3rd Ave. $1,366, to R. J. Dienst, 480 South 5th St., 669 ft. alley west Champion Ave. $3,741, 876 ft. Town St. $27,235, 1,100 ft. 2nd alley west Galloway Ave. $5,961, to Yale Ave. Constr. Co., 146 Yale Ave., 659 ft. alley north 2nd Ave. $5,470, 678 ft. alley north 3rd Ave. $6,306; to Cleveland Trinidad Paving Co., Grand Theatre Bldg., asphalt paving, etc. 1,308 ft. Chapel St. $14,394, 4,556 ft. Livingston Ave. $70,401, to Franklin Asphalt Paving Co., 209 South High St., 728 ft. Hinman Ave. $9,900, 3,381 ft. Reinhard Ave. $39,455, 1,230 ft. Thurman Ave. $27,106, 3,110 ft. Wilson Ave. $53,362; to A. W. Burns Constr. Co., 316 South High St., asphalt widening, 909 ft. Gay St., $18,190, brick widening Park St. $16,067, paving 1406 ft. Milton Ave., $14,730. Grand total $316,869. Noted May 12.

O., Garfield Heights (Cleveland P. O.)—brick and asphaltic concrete paving 7 streets, to Thorpe Constr. Co., 3280 Scranton Rd., Cleveland, $150,390.

O., Rocky River—Asphaltic concrete on concrete paving 11,000 sq.yd. various streets, to Ohio Eng. Co., Lorain, $42,231. Noted June 4.

O., Youngstown—City (**e. e. means engrs. est.**), to V. Olson, 508 Mahoning Bank Bldg., paving Edwards Ave., $29,135 e. e. $29,000, Clinton Ave., $26,796 e. e. $26,000, West Evergreen Ave. $27,316 e. e. $30,000, resurfacing East Rayen St., $27,216 e. e. $30,000, Ellenwood Ave., $25,738 e. e. $30,000; to M. Green & Son, Youngstown, paving Judson Ave., $27,305 e. e. $28,000, Sherwood Ave., $26,472 e. e. $28,000; Brentwood Ave., $25,087 e. e. $28,000, to Keely & Meyer, Youngstown, Avondale Ave., $26,223 e. e. $28,000, resurfacing East Delason Ave., $26,561 e. e. $30,000; to E. Piora, Youngstown, improving Concord Ave., $28,010 e. e. $30,000, paving Lenox St., $25,032 e. e. $30,000; to L. Tiberio, Youngstown, Idelwood Ave., $26,880 e. e. $28,000; to E. J. Kane, Youngstown, resurfacing Hazelwood Ave., $26,037 e. e. $30,000. Grand total $373,807.

Michigan—State Hy. Dept., Lansing, will pave with concrete 1.755 mi. Federal Aid Project 95-F, Lenawee Co., 13.953 mi. Federal Aid Project 95-D, Lenawee and Washtenaw Counties, 0.246 mi. Federal Aid Project 95-E, Lenawee Co., and 3.99 mi. Federal Aid Project 146-B, Ingham Co., by day labor. G. C. Dillman, ch. engr.

Michigan — State Hy. Dept. at office Comrs., Shiawassee Co., Corunna, concrete paving 1.477 mi. State Trunk Line Rd. 47-11 C, and 2.652 mi. Trunk Line Rd. 47-11 B, to J. C. Stewart Co., Owosso, $47,959 and $78,786 respectively.

Michigan — Bd. Comrs. Baraga Co., L'Anse, graveling 9.282 mi. State Trunk

Streets and Roads (Continued)

Line Rd. 69-4, to C. M. Straavaldsen, Madison, Wis., $50,541. Noted May 7.

Wis., Watertown — F. Weber, city clk., grading, curbing, guttering, and rein.-con. paving 6,783 sq.yd. 3rd St., and 5,090 sq.yd. Water St., to Lehman Bros., Watertown, $29,553. Noted May 28.

Wis., Merrill — H. R. Allen, city clk., vibrolithic concrete paving, etc. 20,000 sq.yd. various streets, to C. T. Welsh Paving Corp., 703 1st Natl. Soo Line Bldg., Minneapolis. Noted Apr. 28.

Wis., Milwaukee—Dept. Pub Wks., grading etc. grounds at Riverside pumping station, to R. H. Gumz, 831 13th Ave., $49,-867. Noted May 21.

Ia., Cedar Rapids — City, contrete surfacing, etc. 4,688 sq.yd. 11th St. W. and Hinkley Ave., to Hahn Constr. Co., 1105 12th Ave. W., $11,082; brick surfacing 2,410 sq.yd. 2nd St. W. and 7th Ave., also 2,730 sq.yd. 1st St. to Ford Paving Co., 208 2nd Ave., $7,700 and $9,251 respectively. Noted May 21. Grand total $28,033.

Ia., Ft. Dodge — Webster Co., primary road jobs, incl. 9,250 yd. gravel 1 mi. haul, 3,500 yd. crushed gravel 1 mi. haul, 116,125 additional ½ mi. hauls, 3,250 yd. stripping, 1,500 yd. gravel f.o.b. Duncombe and 450 yd. f.o.b. Harcourt, to A. J. Fleckenstein, Independence, $24,387. Kaiser Gravel Co., Pocahontas, $1,054 and Johnston Clay Wks., Clay Works, $3,647.

Ia., Grundy Center—Grundy Co. improving 28 mi. various roads, grading and gravel surfacing 2 sections, to G. E. Sargent & Co., Hampton, $18,287. Div. 3, to Wilder & Wilder, Iowa Falls, $5,044; 2,228 yd. gravel, to Ideal Sand & Gravel Co., Mason City, $6,864, and 2,000 yd. overhaul, to J. H. Heldt & Co., Everly, $800.

Ia., Logan—Harrison Co., grading, etc., 11.855 mi. Mondomin Rd., Federal Aid Project 228, to G. W. Condon, 510 Farnam Bldg., Omaha, Neb., $38,000. Noted May 7.

Ia., Muscatine—Curbing, guttering and 6 in. concrete surfacing about 17,280 sq.yd. various streets, to W. I. Nusser, Iowa City, $55,327.

Ia., Remsen — A. Paschke, city clk., guttering, curbing, and 6 in. rein.-con paving 38,000 sq.yds. various streets to Western Asphalt Paving Corp., 1st and Nebraska Sts., Sioux City, $102,403. Noted May 21.

Ia., Sioux City—To Booth & Olson Paving Co., 120 Virginia Ave., concrete surfacing 2,817 sq.yd. Macomb St. at $1.90 per sq.yd., 2,316 sq.yd. 25th St. at $1.90, and 1,180 sq.yd. alley in Block 118, at $1.95; to Harrington & Jorgenson, 2200 South Patterson St., 13,400 yd. concrete sidewalks at $0.1725; to Cady & Savonell, 1312 24th St., 1,320 ft. 8 in. sanitary sewers in 7th St. at $0.85. Noted Apr. 2.

Ia., Spencer — Clay Co., 508,400 sq.yd. gravel surfacing and 238,475 units overhaul, on various streets, to H. J. Heldt & Co., Everly, $25,530.

Neb., Geneva — State Dept. Pub. Wks., Lincoln, 3 in. gravel surfacing 154,700 yd. various streets, here, to Koehler Coal & Lumber Co., Sterling, at $0.2414 per sq.yd.

Neb., Minden—Grading, curbing, guttering and vibrolithic concrete paving approximately 10,220 sq.yd. various streets in Dists. 5 and 6, to Abel Constr. Co., 318 Terminal Bldg., Lincoln, $2.29 per sq.yd.

South Dakota—State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project)**, to Tobin & Maloney, Madison, grading, etc., 7.1 mi. F. A. P. 170-F, Minnehaha Co., 9,271 lb. reinforcing, etc., $15,374, 15.09 mi. F. A. P. 196-A, Aurora Co., 43,110 lb. reinforcing, $35,786, graveling 14.7 mi. F. A. P. 185-D, Jackson Co., 17,873 cu.yd. gravel, $31,594; to Northwestern Eng. Co., Kadoka, grading 12.47 mi. F. A. P. 177-B, Pennington Co., 71,684 lb. reinforcing, $43,793, to W. R. Larson, 519 Secy. Natl. Bank Bldg., Sioux Falls, 17.5 mi. F. A. P. 178-B and 200-A, Hutchinson Co., 29,087 lb. reinforcing $37,618, to Dowd Bros. & Schreiber, Watertown, 18.22 mi. F. A. P. 191-D, Clark Co., 34,797 lb. reinforcing, etc., $44,187; to Sheehan & Joyce, Sioux Falls, graveling 10.07 mi. F. A. P. 158-A, Clay Co., 15,103 cu.yd. gravel $11,916, 11.13 mi. F. A. P. 170-E, Turner-Minnehaha Co., 16,698 cu.yd. gravel $9,351, to R. R. Wiley, Summit, 7.76 mi. F. A. P. 14-A and B, Stanley Co., 11,-657 cu.yd. gravel, $9,643, 15.59 mi. F. A. P. 95-A, 23,391 cu.yd. gravel $22,975, 8.3 mi. F. A. P. 95-C, 12,443 cu.yd. gravel, etc., $24,677, both Faulk Co., 6.85 mi. F. A. P. 117, 10,273 cu.yd. gravel $6,189, 11.21 mi. F. A. P. 162-A, 16,810 cu.yd. gravel $13,571, 6.91 mi. F. A. P. 162-B, 10,356 cu.yd. gravel $6,949, all Haakon Co., 18.56 mi. F. A. P. 183-A, Beadle Co., 27,832 cu.yd. gravel $19,-395, to H. Pickus Constr., Sioux City, Ia., 11.51 mi. F. A. P. 179, Deuel Co., 17,265 cu.yd. gravel, etc., $10,806. Grand total, $343,824. Noted May 21.

S. D., Timber Lake—Dewey Co., grading about 100,000 cu.yd. in county project south from Eagle Butte, to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn., $0.34 per cu.yd. for earth, $1.25 for loose rock and $2.25 for solid rock.

Ark., Texarkana — Comrs. Impvt. Dist. 32, grading, curbing and 2 in. asphalt paving 12 blocks Ferguson Ave., to Gregory & Wilson, Southern Trust Bldg., Little Rock, Ark., $34,000.

Tex., Angleton—Brazoria Co. shell surfacing 17,259 cu.yd. State Highway 19, Federal Aid Project 367-B, and improving 6.59 mi. State Highway 19, Federal Aid Project 267-A, 10,464 cu.yd. shell and 6,783 cu. yd. rock, to M. M. Craver & Son, Missouri City, $11,926 and $6,183 respectively; furnishing shell for above roads, to Culver Shell & Dredging Co., Matagorda, $25,252 and $15,278 respectively. Grand total $58,-639. Engrs. ests. $101,690 and $48,415 respectively.

Tex., Brenham—Washington Co., grading, bridging, etc., 12 mi. Independence Rd., 24 ft., 1,578 cu.yd. concrete, 152,598 lb. reinforcing, etc., to H. J. Evans, 500 West 15th St., Austin, $29,174, and B. H. Faber & W. C. Swindell, Houston, $47,659.

Tex., Floresville — Bituminous paving 12.12 mi. Federal Aid Project 440-A, 18 ft., to W. T. Montgomery, Alamo Natl. Bank Bldg., San Antonio, $223,000. Noted Feb. 5.

Tex., Houston — Paving La Branch St. from Holman Ave. to city limits, to Gulf Bitulithic Co., 801 Bankers Mortgage Bldg., $78,396, engrs est. $80,000; also 6th St., to Scott Shambaugh, 1401 Dowling St., $57,-844, engrs. est. $60,000.

Tex., Sweetwater—Nolan Co., grading, bridging and bituminous on gravel sledge stone and crushed rock surfacing 7.61 mi. State Highway 70, State Aid Project 543-1, 16 ft., 56,718 gal. asphalt, 11,345 cu.yd. sledge stone, 27,970 lb. reinforcing, etc., to C. C. O'Neal, 4425 Glenwood St., Dallas, $92,568. Engrs. est. $116,703. Noted Apr. 30.

Oklahoma — State Hy. Dept., Oklahoma City, grading, bridging, etc., 11.21 mi. Claremore-Collinsville Highway, 30 ft., Rogers Co., 77,360 cu.yd. earth and 1,845 cu.yd. rock excav., 9.65 tons reinforcing, etc., and 5.62 mi. same road, Sects. B and C, 33,311 cu.yd. earth and 865 cu.yd. rock excav., 5.38 tons reinforcing, etc., to Hamilton Constr. Co., Bartlesville, $50,638 and $33,011 respectively, engrs. est. $61,000 and $38,000 respectively; gravel surfacing 6 400 sq.yd. Garfield Co. Rd., Project 1, to Troy Gravel Co., Purcell, $25,232, engrs. est. $27,000. Grand total $108,881.

Okla., Claremore—To Hamilton Constr. Co., Bartlesville, improving 11.217 mi. Claremore-Collinsville and Iron Mountain Rds., Sect. A, Tulsa Co. line to River $50,-638, Sect. B, River to Claremore $14,253, and Sect. C, Iron Mountain Route $18,758. Grand total $83,650.

Okla., Lindsay — Grading and vertical fibre brick surfacing 13,660 sq.yd. Main St., to Cook & Cone, Ottawa, Kan., $55,040. Engrs. est. $56,316. Noted May 14.

Okla., Mangum — Grading and concrete surfacing 11,675 sq.yd. Jefferson and Price Sts., to T. E. Ward, 4401 Classen St., Oklahoma City, $30,110. Engrs. est. $35,-000. Noted May 7.

Okla., Tulsa — City, curbing, guttering and surfacing 4,140 sq.yd. Dist. 642, and 11,319 sq.yd. Dist. 643, to Tibbetts & Pleasants, 209 North Nogales St., **$23,214** and $63,525 respectively; 1,839 sq.yd. Dist. 635, to Standard Paving Co., 1740 East 6th St., $7,745; 7,936 ft. 8 in. vitr. clay sewers in Dist. 220, to E. G. Fike & Co., Tulsa, $21,037.

Idaho—Commissioner Pub. Wks., Boise, grading and crushed gravel surfacing, etc., 12,593 cu.yd. Old Oregon Trail Highway, Federal Aid Project 91-A, Ada Co., to H. E. Cornell, 1403 Warm Springs Ave., Boise. Noted May 14.

Wash., Raymond—Paving 6 blocks West Commercial, 1st, Alder, and Ocean Aves., to Philbrick & Nicholson, Aberdeen, $57,623. Engrs. est. $58,400.

Wash., Seattle—Bd. Pub. Wks., paving, etc. Edmunds St. et al, to F. N. Badolato, P. O. Box 561, Seattle, $44,677. Engrs. est. $44,696.

Ore., Pendleton—Grading and paving 5 blocks Market Gulch Rd., 28 ft., to J. K. Shotwell, Spokane, Wash., $27,915.

Calif., Alhambra—Curbing, guttering and asphaltic concrete paving 300,715 sq.ft. Main St. between Wilton Ave. and Fremont St., to G. H. Oswald, 366 East 58th St., Los Angeles, $82,886; paving, guttering, $324,-332 sq.ft. Main St. between Wilton Ave. and east city limits, to O. U. Miracle, 1[illegible] Avenue D, Redondo Beach, $85,747.

Calif., Fullerton—Curbing and 4½ in. asphaltic concrete paving, etc. North Raymond St., to S. Finley, 204 East 4th St., Santa Ana, $27,015.

Calif., Glendora—To Pearson & Dickerson, Riverside, improving Alosta Ave., 359,500 sq.ft. 4 in. oil macadam paving $0.075 per sq.ft. 473,475 sq.ft. grading $0.013333, etc., total $39,775. Noted May 21.

Calif., Los Angeles—City (*e. e. means engrs. est.*) sheet asphalt and bituminous asphaltic concrete paving Vermont Ave., to J. Mullarkey, 8435 South Vermont Ave., $112,427, e. e. $131,473; grading and paving 4,000 ft. Melr se Ave., to Tryon & Brain, 201 Tajo Bldg., $77,040, e. e. $88,078; oil macadam surfacing, London St., on La Fayette Park Pl. Impvt. Dist., to F. G. Law, 750 South Figueroa St., $6,491, e. e. $7,821. Noted June 4.

Calif., Marysville—Curbing, guttering, 1½ in. Warrenite bithulithic on 2½ in. asphaltic concrete surfacing 290,000 sq.ft. C, 9th 13th, Oak, High Sts., etc., to Warren Constr. Co., 28th and Poplar Sts., Oakland, $75,085. Noted June 4.

Calif., San Bruno—Grading Willite surfacing, sidewalks, etc. on 305,000 sq.ft., Lincoln, Polar, Elm, Acacia, Cypress Sts., etc., to Federal Paving Co., Standard Oil Bldg., San Francisco, $228,495. Noted June 4.

Calif., Santa Ana—To Griffith Co., Railway Bldg., Los Angeles, improving West Washington St. between Lowell and Artesia Sts., 460,657 sq.ft. concrete paving $0.164 per sq.ft., 20,175 ft. curbing $0.42, 38,668 sq.ft. 3 in. sidewalk $0.16, total approximately $99,556.

Calif., Santa Monica—Widening and installing electroller system in 5th St., to Kneen Paving Co., Dudley Blk., Santa Monica, $37,225.

Calif., Taft — Curbing, guttering, and Warrenite bitulithic paving 147,247 cu.ft. Kern St. between 2nd and 8th Sts., to A. J. Croker Co., 58 2nd St., San Francisco, $48,-402. Noted May 28.

Ontario—Dept. Pub. Highways, 110 University Ave., Toronto, bituminous penetration macadam paving 5.08 mi. Contr. 1173, to A. E. Jupp Constr. Co., 170 Berkley St., Toronto, $100,000, 2.3 mi. Contr. 1195, to J. P. McQuigg, Arnprior, $50,000; macadam paving 3.73 mi. Contr. 1198, to McLean & Stidwell, Cornwall, $60,000, 7.78 mi. Contr. 1200, to McGinnis & O'Connor, Kingston, $90,000, 4 mi. Contr. 1201, to Orr & Clark, 121 Carlaw Ave., Toronto, $60,000; concrete paving 5.06 mi. Contr. 1183, to Highway Paving Co., foot Bathurst St., Toronto, $150,000, 7 mi. Contr. 1185, to Paving & Mastic Co. Ltd., 222 Federal Bldg., Toronto $200,000, 5 mi. Contr. 1187, to Dufferin Constr. Co., foot Bathurst St. $150,000, 9.17 mi. Contr. 1192, to Boss & Brazier, Woodmen of the World Bldg., London, $275,000. Grand total $1,135,000.

Ont., Barrie—City Council, concrete paving Essa and Burton Aves., to Brennan Paving Co., 100 Melrose Ave., Hamilton. Engrs. est. $40,000.

Buildings—Industrial

PROPOSED WORK

Mass., Boston—PLANT—Knickerbocker Ice Co., C. E. Small, 41 East 42nd St., New York City, having preliminary plans prepared ice plant, here. Private plans.

Mass., Pittsfield — MILL — Pontoosic Woolen Co., plans woolen mill. To exceed $40,000. C. T. Main, 200 Devonshire St., Boston, engr.

Mass., Quincy (Boston P. O.)—FACTORY—Conrad Shoe Co., 68 Perkins Ave., Brockton, plans 2 story, 150,000 sq.ft. floor space, brick and timber factory, here. $225,000. Lockwood, Greene & Co., 24 Federal St., Boston, engrs.

N. Y., Ilion — PLANT — Remington Typewriter Co., 374 Bway., New York City, having plans prepared by Kinne & Frank, archts. and engrs., 7 Hopper St., Utica, 4 story, rein.-con., brick and steel addition, plain foundation, here. $200,000.

N. Y., Long Island City—FACTORY—Steiner Electric Co., 590 Northern Blvd., Astoria, soon takes bids 1 story, rein.-con., brick and steel addition, plain foundation, here. $60,000. J. Baker, 4 Jackson Ave., archt. and engr.

N. Y., New York—SERVICE—Margan & Glaser, engrs. and archts., 2804 3rd Ave., preparing plans 5 story, 25 x 110 ft., rein.-con., brick and steel, plain foundation, 208

Buildings—Industrial (Continued)

West 77th St. $80,000. Owner's name withheld.

N. Y., New York — SERVICE and GARAGE—H. Bergman, archt., 441 Lexington Ave., preparing plans 2 story, 75 x 200 ft., rein.-con., brick and steel, plain foundation, 430 East 48th St. $100,000. Owner's name withheld.

N. Y., New York — SERVICE and REPAIR GARAGE—M. Thompson, archt. and engr., 200 Montague St., Brooklyn, preparing plans 4 story, 75 x 100 ft., rein.-con., brick and steel, plain foundation, 342 West 41st St., here. $100,000. Owner's name withheld.

Pa., Erie—PLANT—Erie Enameling Co., 16th and Cascade Sts., having plans prepared 1 story, 120 x 140 ft., brick and steel addition, 19th St. Private plans.

Pa., Homestead — STORAGE — Carnegie Steel Co., Carnegie Bldg., Pittsburgh, having preliminary plans prepared by Carnegie Land Co., 365 Frick Annex, Pittsburgh, 2 story 50 x 110 ft., steel and concrete storage building here. $150,000.

Pa., Monaca—FACTORY—Colona Mfg. Co., having plans prepared 1 story, 80 x 176 ft., brick and steel addition. $100,000. Private plans.

Pa., Phila. — FACTORY — Queen City Printing Ink Co., 11th and Hamilton Sts., having plans prepared by H. B. Weldon, 1817 Callowhill St., 1 story and basement, 60 x 160 ft., brick, plain foundation. $40,000.

W. Va., Withers — PLANT — South Pennsylvania Oil Co., Union Trust Bldg., Charleston, having plans prepared 1 story, 75 x 150 ft., and 40 x 40 ft., gasoline plant, steel, here. $70,000. Private plans.

N. C., Belmont—PLANT—Lineberger & Stowe, Belmont, J. M. Hatch, mgr., plans large mercerizing plant on Charlotte Highway.

N. C., Durham—Mill—Yarborough Mills, Inc., plans 89 x 145 ft. weaving mill, Holloway and Calvin Sts. T. C. Atworth, Durham, archt.

Fla., Wauchula — PLANT — City voted $40,000 bonds, for light plant annex. W. D. Carlton, mayor.

Ala., Anniston — PLANT — M and H Valve & Fitting Co., L. C. Watson, secy. and treas., plans plant.

Ala., Attalla—PLANT—Walworth Mfg. Co., 142 High St., Boston, Mass., recently purchased The Natl. Pipe & Fdry. Co. plant, here, and plans additions to plant. $750,000.

Ala., Gadsden—PLANT—H. Wetter Mfg. Co., South Pittsburgh, Tenn., purchased old Gadsden car works site of 30 acres and plans new plant, here. $100,000.

Tenn., Clinton—MILL—Magnet Knitting Mills, plans 2 story and basement, 100 x 250 ft. hosiery mill, rein.-con. $300,000.

Tenn., Memphis — PLANT — Belgium Cleaners, 4th and Poplar Sts., having plans prepared by E. W. Mann, Memphis, 1 story, concrete and brick, Madison Ave. $40,000.

Tenn., Memphis — LAUNDRY — Success Laundry, Madison Ave., plans 2 story and basement, concrete and brick, Jefferson St.

O., Akron — HEATER ROOM — Osborn Eng. Co., 7016 Euclid Ave., Cleveland, soon lets contract 3 story and basement, 40 x 220 ft., brick, steel and concrete heater room addition, here, for General Tire & Rubber Co., 1708 East Market St., $100,000.

O., Barberton—FACTORY—Ohio Insulator Co., plans concrete and steel factory addition. $50,000.

O., Barberton — PLANT — Lambert Tire Co., plans new boiler house and power plant. $125,000.

O., Cleveland—FACTORY—Colonial Iron Wks., L. M. Steiner, pres., 881 East 67th St., plans 1 story, 120x200 ft., brick and steel, East 176th St. and St. Clair Ave. $75,000. J. H. Petrosky, c/o owner, engr.

O., Cleveland — FACTORY — Industrial Fibre Co., c/o C. A. Nau, engr. of constr., 9801 Walford Ave., having plans prepared 1 story, 100x200 ft., 50x80 ft., 20x60 ft., 25x40 ft., 40x200 ft. and 100x100 ft., brick and steel additions, Walford Ave. $250,000. Private plans.

O., Cleveland—PLANT—Central Publishing Home of Reformed Church, c/o P. Wetzel, mgr., 2969 West 25th St., had plans prepared by A. A. Hanke, 10101 Nanford Rd., 3 story and basement, 60 x 62 ft., brick and rein.-con. addition. $50,000.

O., Cleveland—FACTORY—M. Glick Co., M. Glick, pres., 711 Woodland Ave., had plans prepared by J. F. Steffens, Fidelity-Mortgage Bldg., 3 story and basement, 24 x 127 ft., brick and steel, Woodland Ave. $50,000.

O., Fremont—FACTORY—Schaff & Good Co., plans rebuilding 2 story brick, steel and concrete factory, recently destroyed by fire. $50,000.

O., Youngstown—PLANT—Great Atlantic & Pacific Tea Co., Terminal Way, Pittsburgh, Pa., plans baking plant, Crab Creek Valley. $100,000.

Mich., Wayne — PLANT — Gotfredson Truck Corp., 3601 Gratiot Ave., Detroit, having plans prepared 1 story, concrete, brick and steel, plain foundation, Michigan Ave. $50,000. Private plans.

Wis., Stoughton—HEATING PLANT—Martin Luther Orphan Home, N. A. Stubkjaer supt., having plans prepared by Law & Law, 1st Central Bldg., Madison, 2 story, brick, rein.-con. and steel, plain foundation. $55,000. Noted June 4.

Minn., Minneapolis — LABORATORY — State Bd. Control, Capitol, St. Paul, having plans prepared by C. H. Johnston, 715 Capital Bank Bldg., St. Paul, 2 story and basement, rein.-con., brick and stone addition to State University, here. $70,000.

Neb., Norfolk — PLANT — Election soon $250,000 bonds, electric light plant. A. L. Mullergren, Gates Bldg., Kansas City, Mo., consult. engr.

Mo., Cape Girardeau — PLANT — Miles Packing Co., A. E. Miles, pres., having plans prepared 1 story, 45 x 190 ft., brick canning and packing plant. $80,000. Private plans.

Ark., Jonesboro—POWER PLANT—City Water & Light Plant, c/o J. F. Christy, mgr., soon takes bids 1 story, 98 x 125 ft. rein.-con., brick and steel power plant, incl. basement under boiler room and part basement under engine room; 207 ft. stack, to Weber Chimney Co., 1454 McCormick Bldg., Chicago, Ill. Archts. total est. $160,000.

Tex., Carlsbad—POWER HOUSE—State Building Comn., Austin, plans 40 x 60 ft., rein.-con. and brick power house addition at Tuberculosis Sanitarium, here. $50,000. Phelps & De Wees, Gunter Bldg., San Antonio, engrs.

Tex., Houston — BAKERY — S. F. McDonald, pres. Campbell Baking Co., 30th and Troost Ave., Kansas City, Mo., plans bakery, here. $250,000. Engineer and architect not selected.

Tex., Mirando City — REFINERY — Mirando City Oil Co., plans 1 story, brick and steel plant. $250,000. Private plans.

Tex., Paris—PLANT—Bennett Printing Co., c/o P. H. Bennett, pres. and mgr., plans brick plant. $74,000. Engineer and architect not announced.

Calif., Ontario — PLANT — Exchange Orange Products Co., San Dimas, plans packing plant, here. $150,000 or more.

Calif., Uplands — Uplands Citrus Assn. having plans prepared by W. W. Ache, 1616 4th Ave., Los Angeles, 1 story and basement, 165 x 220 ft., rein.-con. packing plant. $100,000. Noted Mar. 5.

Ont., Barrie—PLANT—Barrie Gas Co. plans increasing capacity of plant. $75,000. Private plans.

BIDS DESIRED

Mass., Boston—REPAIR and SERVICE GARAGE—Brown & Shapiro, Old South Building, will build 1 story, 80 x 185 ft., rein.-con. and brick, Northampton St. $75,000. Work will be done by separate contracts. S. S. Eisenberg, 46 Cornhill St., archt.

Mass., New Bedford—MILL—Gilt Edge Silk Mills, 1145 Kempton St., taking bids 2 story, 52 x 160 ft., brick and steel addition. $150,000. Leary & Walker, Times Bldg., archts.

Mass., Quincy (Boston P. O.) — FACTORY—Vulvan Tool Co., 40 Liberty St., taking bids 1 story, timber addition. Private plans.

Mich., Detroit—FACTORY—B. C. Wetzel & Co., archts., 2317 Dime Bank Bldg., taking bids 2 story, 60 x 130 ft., brick, steel, and concrete addition, West Fort St., for Detroit Show Case Co., 1654 West Fort St. $50,000.

Wis., Jefferson — MILL — J. E. Owen & Son, taking bids 2 story, 32 x 110 ft., brick and timber addition to yarn mill, plain foundation. $40,000. Private plans.

Wis., Madison — WAREHOUSE and PLANT—F. L. Kronenberg, archt., Carroll Bldg., taking bids 3 story, 66 x 124 ft., brick, rein.-con. and steel, plain foundation. $40,000. Owner's name withheld.

Mo., St. Louis — SHOP and WAREHOUSE—N. O. Nelson Mfg. Co., 10th and Chestnut Sts., will build 1 story and basement, 20 x 312 ft., rein.-con. and brick, Boyle St. $150,000. Work will be done by separate contracts under supervision of P. J. Bradshaw, archt., International Life Bldg.

BIDS RECEIVED

N. Y., New York—GARAGE—J. Miller, pres. Manhattan Boro, Municipal Bldg., June 8, garage addition at asphalt plant, also addition to stone dust storage building, 90th St. and East River, from G. A. Glantz, $66,725. Noted June 4.

CONTRACTS AWARDED

Mass., Amherst — POWER HOUSE — Amherst College, G. D. Olds, pres., 1 story, brick power house, to Lowell Whipple Co., 44 Portland St., Worcester. Noted May 7.

Mass., Boston—GARAGE—North Terminal Corp., 3 story, 225 x 300 ft., rein.-con. garage, to Aberthaw Co., 27 School St., $500,000.

Mass., Boston — PLANT — International Harvester Co. of America, 606 South Michigan Ave., Chicago, Ill., 5 story, 100 x 165 ft., rein.-con., plain foundation, here, to Aberthaw Co., 27 School St., $170,000.

Mass., Boston—REPAIR and SERVICE —Y. D. Service Garage, c/o L. S. Joslin, archt., 339 Newbury St., 3 story and basement, 55 x 112 ft., rein.-con. and steel, plain foundation, 345-347 Newbury St., to Chase & Gilbert, 220 Devonshire St., Boston. Archts. est. $100,000. Noted Apr. 23.

Mass., Springfield—FACTORY—Eastern States Warehouse & Cold Storage Co., 2 story, 76 x 106 ft., brick and timber, Liberty St., to D. W. Mellen, 292 Bridge St. Archts. est. $50,000.

Mass., Worcester—GARAGE—A. Brown, 49 Midland St., 2 story and basement, 70 x 145 ft., rein.-con. and brick, Central St., to Keefe Bros. Co., 98 Front St. Archts. est. $150,000.

R. I., Bellefont (Providence P. O.)—BLEACHERY—Imperial Printing Co., 2 story, 100 x 140 ft., brick and timber, to C. I. Bigney Constr. Co., 194 Washington St., Providence. Archts. est. $100,000.

Conn., East Hartford (Hartford P. O.) —FACTORY, OFFICE and STORAGE—Williams & Carleton, 206 State St., Hartford, 3 story and basement, 50 x 150 ft., brick and steel, Boulevard, to Industrial Constr. Co., 721 Main St., Hartford. Archts. est. $150,000. Noted Apr. 23.

Conn., Torrington—FACTORY—Torrington Mfg. Co., 70 Franklin St., 2 story, 60 x 110 ft., brick, to Torrington Building Co., 182 Church St. Archts. est. $50,000.

Pa., Reading—REPAIR SHOPS—Phila. & Reading R.R. Co., Reading Terminal, completing 1 story, 335 x 880 ft., rein.-con. and brick, plain foundation, to Hughes-Foulkord Co., Commonwealth Bldg. Engrs. est. $300,000. Noted May 7.

Va., Roanoke—FACTORY—Viscose Corp. of Va., Marcus Hook, Pa., 1 and 2 story and basement, 166 x 582 ft., brick and steel, plain foundation, Roanoke River, here, to J. F. Pettijohn, Lynchburg. Archts. est. $900,000.

Fla., Miami — MILL — Drake Lumber Co., 327 6th St., lumber mill, to St. Johns Constr. Co., Townly Bldg. Archts. est. $40,000.

Ala., Cordova—PLANT—L. L. Stephenson, Birmingham, 14 kiln, 60,000 ton, brick manufacturing plant, office buildings, etc. here, to Bessemer Eng. Co., Bessemer, $300,000.

La., Shreveport — POWER HOUSE — Southwestern Gas & Electric Co., 1206 City Bank Bldg., superstructure for 150 x 170 ft., rein.-con. and brick power plant, 80 ft. high, Allen Ave., to Glasswell & Wilson, Shreveport, $154,605.

O., Cincinnati—PLANT—Amer. Products Co., 323 West 3rd St., 7 story and basement, rein.-con. and brick, plain foundation, Colerain St., to Fisher-DeVore Constr. Co., Dixie Terminal Bldg., $450,000.

O., Cleveland—FACTORY—Parr Paint & Color Co., W. J. Parr, pres., 665 East 103 St., 3 story and basement, 40 x 80 ft., brick, steel and concrete, Syracuse Ave., to W. F. Thompson & Son Co., Chester 12th Bldg. Archts. est. $40,000.

O., Cleveland — FACTORY — Frankelite Co., D. Frankel, pres., 5016 Woodland Ave., 3 story, brick and steel factory, to L. Dautel & Son Co., 5710 Hough Ave. Archts. est. $40,000. Noted Apr. 30.

O., Cleveland—FACTORY and STORAGE —Columbian Hardware Co., H. F. Seymour, pres., 5113 Hamilton Ave., 2 story and basement, 90x120 ft., East 51st St., to J. L. Hunting Constr. Co., Guarantee Title Bldg. Archts. est. $50,000. Noted Mar. 26.

O., Cleveland — PLANT — Union of Roumanian Societies Publishing Co., N. Bardas, pres., 5705 Detroit Ave., 2 story and basement, 20 x 50 ft., and 50 x 70 ft. brick and steel printing plant, 5705 Detroit Ave., to W. J. Gabriel, 17436 Clifton Blvd.,

Buildings—Industrial (Continued)

Lakewood. Archts. est. $40,000. Noted Jan. 1.

O., Toledo—FACTORY—Chase Bag Co., Toledo, and 4 North Main St., St. Louis, Mo., 1 story, 180 x 580 ft., brick, steel and concrete factory, to Austin Co., 16112 Euclid Ave., Cleveland. Archts. est. $200,000.

Ill., Chicago — FACTORY and WAREHOUSE—Delta Star Electric Co., 2437 Fulton St., D. H. Young, pres., 1 story, 25,000 sq.ft. floor space, requiring 200 tons structural steel, Campbell Ave., to Austin Co., 160 North La Salle St.

Wis., Wauwatosa—MILL and PLANT—Gridley Dairy Co., 140 8th St., Milwaukee, 2 story, 147 x 182 ft. and 2 story, 80 x 100 ft., brick and concrete, plain foundation, North Ave., to Dahlman Constr. Co., 456 Bway., Milwaukee, $100,000.

Ia., Des Moines — FACTORY — Klondike Incubator Co., 315 Southwest 9th St., will build 2 story, 81 x 212 ft., brick, concrete and steel, Dean and East 24th Sts., by day labor. $40,000. R. Leibsle, 428 Flynn Bldg., archt.

Ia., Ottumwa—PLANT—J. Morrell & Co., 5 story, 80 x 156 ft., rein.-con. packing plant, to H. A. Maine & Co., 119 8th Ave., Waterloo.

Kan., Wichita—PLANT—J. Dold Packing Co., 21st and Lawrence Sts., will build 5 story and basement, 70 x 170 ft., rein.-con. and brick packing plant, by day labor. Heuschien & McLaren, 1637 Prairie Ave., archts. Noted Mar. 12.

Mo., Kansas City—STORAGE—Kansas City Terminal Co., general contract 1 story, 40 x 108 ft., rein.-con. and cast stone storage building, to Swanson Constr. Co., Schubart Bldg., $40,000.

Calif., Los Angeles—LAUNDRY—City Towel Supply Co., 6th and San Pedro Sts., 6 story, 105 x 105 ft., rein.-con., San Pedro Ave. and 6th Sts., to W. E. Warne, 1111 Marsh-Strong Bldg., $155,000.

Calif., San Andreas—PLANT—Calaveras Cement Co., 900 Commercial Union Bldg., San Francisco, 4,000 bbl. daily capacity cement plant with equipment, to Macdonald Eng. Co., 149 California St., San Francisco, approximately $2,000,000.

Ont., Englehart — ENGINE SHOP — Temiskaming & Northern Ontario Ry., North Bay, 1 story, 6 stall rein.-con. and brick addition, to Britnell Contg. Co. Ltd., 903 Yonge St., Toronto. Engrs. est. $80,000.

Ont., Walkerville—PLANT—Berry Bros., 211 Leib St., Detroit, Mich., rebuilding plant, recently destroyed by fire, Walker Rd., here, to Wells & Gray Ltd., 1198 Mercer Ave., Windsor. Archts. est. $50,000.

B. C., Burnaby — REFINERY — Union Oil Co., 402 Pender St. W., Vancouver, clearing and grubbing 65 acre site here, for new refinery, to Cotton Co. Ltd., False Creek Yards, Vancouver, $35,000.

Buildings—Commercial

PROPOSED WORK

Vt., Bellows Falls—TOWN HALL—Pub. Building Com. plans rebuilding town hall, recently destroyed by fire. $150,000. Engineer and architect not selected.

Mass., Boston—HOME—New England Deaconess Assn., 6 Deaconess Rd., Brookline, having preliminary sketches made by E. W. Deering, 10 Deaconess Rd., Brookline, nurses home, Francis St. and Riverway Dr., here. $300,000.

Mass., Boston — TEMPLE — Electrical Workers Union 103, F. L. Kelley, chn. building, comn., 12 Berkley St., plans labor temple. $500,000. Engineer and architect not selected.

Mass., Everett (Boston P. O.) — EXCHANGE—New England Telegraph & Telephone Co., 50 Oliver St., Boston, having plans prepared by Densmore, LeClear & Robbins, Park Sq. Bldg., Boston, 2 story and basement, brick, Chelsea and Victoria Sts. To exceed $150,000.

Mass., Quincy (Boston P.O.)—HOSPITAL—City, P. E. Barbour, mayor, City Hall, having plans prepared by Stevens & Lee, 45 Newbury St., Boston, 2 story and basement, brick maternity hospital. $150,000.

R. I., Providence — AUDITORIUM — Rhode Island Auditorium, Inc., c/o Funk & Wilcox, archts., 26 Pemberton Sq., Boston, had plans prepared 1 story, 160 x 400 ft., rein.-con., brick and steel, plain foundation, North Main St. between 2nd and 3rd Sts. $500,000.

R. I., Providence—GYMNASIUM—Brown University, Prospect St., having preliminary plans prepared by Clarke & Howe, Turks Head Bldg., 2 story, 65,000 sq.ft. floor space, steel and timber gymnasium to contain swimming pool, administration quarter, etc., Sessions and Elm Grove Aves. G. Hadden, 280 Madison Ave., New York City, engr. Noted Jan. 29.

R. I., Providence—OFFICE—State Building Comn., c/o J. S. Holbrook, State House, having plans prepared by Jackson, Robertson & Adams, Turks Head Bldg., office building, Smith St. To exceed $150,000.

Conn., Hartford — COUNTY — Comrs. Hartford Co., S. H. Graham, chn., plans new county building, Lafayette and Washington Sts. $1,500,000.

Conn., Hartford — HOTEL — D. and S. Maisler, c/o F. C. Walz, archt., 407 Trumbull St., having plans prepared 80 x 120 ft., brick and steel, plain foundation, High St. $300,000.

Conn., Middletown—THEATRE—S. and S. Corp., c/o L. J. Thompson, archt., 586 Corbin Ave., New Britain, having plans prepared 2 story, 55x147 ft., brick and steel, Main St. $200,000. Noted May 7.

Conn., New Haven — CLUB — Young Mens Republican Club, Crown and Temple Sts., having plans prepared by Shiner & Apel, 185 Church St., 8 story, brick and steel, Crown and Temple Sts. $500,000.

Conn., New Haven—GARAGE, REPAIR SHOP and SHOW ROOM—E. M. Jennings Co., 27 Harrison St., Bridgeport, having plans prepared by Norton & Townsend, 405 Temple St., 1 story, 98 x 285 ft., brick, stone and steel, Whalley Ave. $150,000.

Conn., Stamford — HOTEL — F. Urso, archt., Spelke Bldg., preparing plans 5 story, 50 x 112 ft., brick and steel, plain foundation, Main St. $150,000 or more. Owner's name withheld.

N. Y., Buffalo—STORE—T. S. Given, 454 Main St., plans 6 story, 75 x 105 ft., brick and steel, Main St. $250,000. Engineer and architect not selected.

N. Y., Kenmore — TEMPLE — Masonic Order plans temple, Delaware Ave. $150,000. Engineer and architect not selected.

N. Y., New York — APARTMENT — V. Green, c/o Renwick, Aspinwall & Tucker, archts., 8 West 40th St., having plans prepared 7 story, brick, steel and stone, plain foundation, Hudson and Barrow Sts.

N. Y., New York — APARTMENT — Bilform Realty Corp., c/o C. Kreymborg & Sons., archts., and engrs., 2534 Marion Ave., having plans prepared 6 story, 120 x 140 ft., brick, steel and stone, plain foundation, Decatur Ave. $225,000.

N. Y., New York—APARTMENT—Cohen Investing Co., c/o D. S. Lang, engr. and archt., 110 West 34th St., having plans prepared two 5 story apartments, one 90 x 100 ft., and other 75 x 85 ft., brick, steel and stone, plain foundation, Seneca Ave. $200,000 each.

N. Y., New York—APARTMENT—Reich Realty Co., c/o C. Kreymborg & Sons, 2534 Marion Ave., having plans prepared 5 story, 125 x 145 ft., brick, steel and stone, plain foundation, Hunts Point Ave. $300,000.

N. Y., New York — APARTMENT — Struckwell Corp., c/o G. G. Miller, archt. and engr., 1482 Bway. having plans prepared 6 story, 100 x 125 ft., brick, steel and stone, plain foundation, Stebbins Ave. $275,000.

N. Y., New York — THEATRE — Malan Theatre Corp., c/o E. DeRosa, archt. and engr., 110 West 40th St., having plans prepared brick, steel and stone, plain foundation, Sheridan Ave.

Pa., Blossburg—HOSPITAL—Blossburg Hospital Assn. having plans prepared by W. D. Shollenberger, 522 Scott St., Williamsport, 3 story and basement, 90 x 100 ft., rein.-con. and brick hospital. $150,000.

Pa., Oak Lane (Sta. Phila.) — APARTMENT—Oak Lane Manor Apartment Co., c/o S. Demcheck, archt., 1705 Chestnut St., Phila., having plans prepared 4 story and basement, 138 x 212 ft., brick and steel, plain foundation, Valley Rd., here. $500,000.

D. C., Wash.—HOTEL—J. J. Schwartz had plans prepared by Milburn, Heister & Co., Union Savings Bank Bldg., 12 story, white terra cotta, 13th and E Sts. N. W.

N. C., Winston-Salem—COURT HOUSE—Bd. Comrs. Forsyth Co., having preliminary plans prepared by Northup & O'Brien, Winston-Salem, 3 story, 125 x 125 ft., rein.-con. and tile. $350,000. Noted May 14.

Fla., Dundee—HOSPITAL—Scenic Highlands Hospital Assn., J. Burnes, Jr., pres., Lake Wales, plans Scenic Highlands Hospital, here. $300,000.

Fla., Miami—OFFICE—Shoreland Co., H. M. Anderson, pres. plans 10 story office building, East Flagler St. $1,000,000.

Fla., Sarasota—HOTEL—Clas, Shepherd & Clas, archts., 445 Milwaukee St., Milwaukee, Wis., preparing preliminary plans brick and concrete hotel. $1,000,000. Owner's name withheld.

Fla., Sarasota — OFFICE — First Natl. Co., plans office building, Victory and Orange Aves. $250,000. A. L. Joiner, pres.

Miss., Jackson — STORE — Emporium Department Store, having preliminary plans prepared by N. W. Overstreet, Overstreet Bldg., 5 story, 80 x 125 ft., rein.-con., brick and stone store building. $150,000.

O., Cleveland—COTTAGE, etc.—State Building Comn., c/o J. E. Harper, dir. Pub. Welfare, Columbus, plans 1 story, brick and steel, Turney Rd., here. $380,000. H. B. Briggs, Hartman Hotel Bldg., Columbus, archt.

O., Cleveland—SERVICE—City, D. Bisson, City Hall, having plans prepared by H. Kregelius, City Hall, brick, steel and concrete addition, Scranton Rd. $150,000.

O., Cleveland — STORE, HOTEL and GARAGE—J. Babin, 307 Williamson Bldg., having plans prepared by N. Petti, Williamson Bldg., 1 and 5 story, brick steel and concrete, 6024 Euclid Ave. $300,000. A. G. Simon, Hippodrome Bldg., consult. engr.

Wis., Janesville—Y.M.C.A., J. A. Steiner, secy., 402 West Milwaukee St., having plans prepared by Leenhouts & Guthrie, 424 Jefferson St., Milwaukee, 2 and 4 story and basement, 120 x 120 ft., brick and concrete, plain foundation. $275,000. Noted Nov. 27.

Wis., Madison—COMMERCIAL—F. T. Kronenberg, archt., Carroll Blk., preparing plans 3 story, 66 x 124 ft., rein.-con., brick and steel commercial building, plain foundation. $150,000. Owners name withheld.

Kan., Wichita—FIRE STATION—City, W. A. Stanfield, comr. plans 3 fire stations $200,000. Private plans.

Kan., Winfield—HOSPITAL—City soon takes bids 3 or more story, rein.-con., brick and stone hospital. $150,000 or more. R. E. Peden & Co., and B. L. Austin, 3405 Troost Ave., Kansas City, Mo., archts. J. M. Fuller & Co. and R. A. Walker, Winfield, associated archts. Noted June 19, 1924.

Mo., Excelsior Springs—HOTEL—A. E. Cooper, Royal Hotel, having plans prepared by E. O. Brostrom, 623 Reliance Bldg., rein.-con. and brick hotel. $200,000.

Mo., Jefferson City — OFFICE and LODGE—J. Houchin, et al., having preliminary plans prepared by Capital Architectural Serv., 207 Central Trust Bldg., 5 story and basement, 100 x 100 ft., rein.-con. and brick, Monroe St. $350,000.

Mo., Kansas City—THEATRE—Boller Bros., archts., 114 West 10th St., takes bids after June 15, 1 story, balcony and basement, 60 x 235 ft., rein.-con., brick and terra cotta, plain foundation, 3827 Main St., for E. E. Werner, 3360 Gillham Rd. $150,000. Noted May 14.

Mo., St. Louis—CLUB and OFFICE—Engineers Club of St. Louis, 3817 Olive St., having preliminary plans prepared rein.-con., stone, brick and steel club and office building. $375,000-$750,000. Private plans.

Mo., St. Louis—ADMINISTRATION—Pub. Serv. having preliminary plans prepared by L. R. Bowen & C. C. Christopher, 301 City Hall, 2 story and basement, rein.-con. brick and stone for Isolation Hospital, Arsenal St. $286,000. L. R. Bowen & H. Updike, 301 City Hall, engrs.

Tex., Dallas—COTTON EXCHANGE—Owner, c/o R. L. Dixon, 1501½ Commerce St., plans 16 story and basement, brick, stone, rein.-con. and steel, Harwood and San Jacinto Sts. $1,500,000. Engineer and architect not selected.

Tex., Texarkana—CITY HALL——Election soon $250,000 bonds new city hall, East 3rd and Walnut Sts. Engineer and architect not selected.

Tex., San Antonio—APARTMENT—Kelwood Co., Travis Bldg., soon takes bids 8 story, rein.-con., brick and stone, Lexington and Oakland Sts. $1,000,000. A. A. Seelingson, 115 East Ashby St., and L. J. Hart, et al., Gunter Bldg., archts.

Tex., San Antonio — APARTMENT — Snider & Parsons, c/o Adams & Adams, archts. and engrs., Builders Exch. Bldg., having plans prepared 5 story and basement, 55 x 65 ft., rein.-con., brick and stone, plain foundation, San Pedro and Mistletoe Sts. $150,000.

Tex., San Antonio — TEMPLE — Temple Beth El, Travis and Jefferson Sts., M. Stern, chn. Building Com., takes bids after June 15, 2 story and basement, 90 x 140 ft., rein.-con., brick, hollow tile and stucco, plain foundation, Ashby and Belknap Sts. $250,000. Seutter & Simons, Moore Bldg., archts. and engrs. Noted Apr. 16.

Tex., Wichita Falls—HOSPITAL—State Bd. Control, Austin, takes bids about June 15, two 2 story, 100 x 200 ft., rein.-con. and brick, ward buildings, here, for Northwestern Texas Hospital of Insane. $350,000. Address S. B. Corvell, c/o owner. Noted June 11.

Okla., Hollis—COURT HOUSE—Harmon Co. voted $150,000 bonds, 2 story and basement court house. Noted May 28.

Okla., Oklahoma City—GARAGE—C. W. Sims, 118 West 1st St., having preliminary plans prepared by Hawk & Parr, Cotton Exch., 5-story, 75x140 ft., fireproof, 1st

Buildings—Commercial (Continued)

St. $225,000. Reinhart & Donovan, Tradesmans Bldg., engrs.

Okla., Oklahoma City — OFFICE — Mid Continent Life Insurance Co., 1st and Robinson Sts., having plans prepared by Layton, Smith & Forsythe, Southwest Natl. Bank Bldg., 5 story and basement, 100 x 160 ft., rein.-con. and steel, plain foundation. Shartel St. and West Highland Park Addition. $300,000-$350,000.

Wash., Seattle—THEATRE—L. Baeder, archt., Securities Bldg., takes bids about June 25, 1 story, 103 x 140 ft., polychrome terra cotta theatre, 1,300 seating capacity, 4515 University Way, for T. F. Murphy, University Way. $155,000.

Ore., Portland—APARTMENT—Lucas & Carl, archts., Lewis Bldg., preparing plans and take bids about June 28, 4 story, 100 x 125 ft., brick, Vista Ave. and 23rd St., for J. Parker and E. P. Paine, Lewis Bldg. $185,000.

Calif., Berkeley — MEMORIAL — Plans election $150,000 or more bonds, fireproof World War Veterans' Memorial Building.

Calif., Berkeley—THEATRE—C. E. Condon, 57 Post St., San Francisco, plans fireproof theatre, Montrey Ave. and Hopkins St. $150,000.

Calif., Burlingame—APARTMENT and STORE—J. K. Calley, 1159 Green St., San Francisco, having plans prepared by G. L. Rosebrook, Monadnock Bldg., San Francisco, 3 story, concrete, Chapin and Primrose Sts. $150,000.

Calif., Fresno—HOSPITAL—Fresno Co., D. M. Barnwell, clk., plans election $200,000 bonds, for tubercular hospital.

Calif., Los Angeles—APARTMENT—A. C. Vaughan, c/o Postle Co., archts. and engrs., 631 Van Nuys Bldg., had preliminary plans prepared 13 story and basement, 145 x 165 ft., stone and terra cotta, 7th and New Hampshire Sts. $2,500,000.

Calif., Los Angeles — HOSPITAL — Kaspare Cohn Hospital Assn., c/o Curlett & Beelman, archts., Union Bank Bldg., having plans prepared approximately 8 story and basement, 200 bed, Catalina and Fountain Sts. $150,000 or more.

Calif., Los Angeles—HOTEL and STORE—M. Friedman, designer, Detwiler Bldg., preparing plans 5 story and basement, 105 x 150 ft., brick and steel, 8th St. and New Hampshire Ave. Owner's name withheld.

Calif., Los Angeles — OFFICE and STORE — Union Auto Insurance Co., J. A. Watt, Lane Mortgage Bldg., having plans prepared by Walker & Eisen, Great Republic Bldg., Los Angeles, 4 story and basement, 185 x 215 ft., rein.-con., 6th and Loomis Sts. $350,000.

Calif., Los Angeles—OFFICE—Quinby Corp., 536 South Hill St., having plans prepared by Meyer & Holler, Wright-Callendar Bldg., 13 story and basement, 60 x 110 ft., rein.-con., 7th St. and Grand Ave. To exceed $500,000.

Calif., Los Angeles—SALES and SERVICE—Taylor & Taylor, archts., 713 West 8th St., take bids about June 7, 3 story and part basement, rein.-con., Figuera and 21st Sts., for Pierce-Arrow Automobile Co. $200,000.

Calif., Los Angeles—THEATRE—F. E. Keeler, c/o J. M. Cooper, archt., Marsh-Strong Bldg., having plans prepared rein.-con., 6th St. $350,000 or more.

Calif., Los Angeles—THEATRE, etc.—Bard Theatres, Inc., Pershing Sq. Bldg., having revised plans prepared by L. A. Smith, Lily-Fletcher Bldg., rein.-con. theatre, stores and office building, 2,000 seating capacity, North Vine St. $155,000. Noted May 14.

Calif., Montebello — THEATRE and STORE—Gore Bros., c/o L. A. Smith, Fletcher Bldg., Los Angeles, archt., having preliminary plans prepared, rein.-con. theatre, Whittier Blvd.

Calif., Oakland—HOSPITAL—Hillcrest Hospital Assn., c/o M. I. Diggs, archt., 17th St. and Telegraph Ave., having preliminary plans prepared 5 story and basement, rein.-con. hospital. $500,000.

Calif., Pacific Grove — HOTEL — T. A. Work, having preliminary plans prepared by M. A. Dean, 498 Weldon St., Oakland, fireproof hotel, Lighthouse Ave. $250,000.

Calif., Pasadena—OFFICE and STORE—H. J. Barrett, archt., 245½ South Western Ave, Los Angeles, preparing plans 2 story and basement, 120 x 140 ft., brick bank, office and store building, York St. $150,000. Owner's name withheld.

Calif., Sacramento—LODGE—Knights of Columbus, c/o Dean & Dean, archts., Ochsner Bldg., having preliminary plans prepared 2 story and basement, rein.-con., 18th and J Sts. $150,000.

Calif., San Francisco — APARTMENT, HOTEL and THEATRE — S. H. Levine, 2055 Union St., having preliminary plans prepared by Reid Bros., 105 Montgomery St., brick and rein.-con., North Beach St. $300,000.

Calif., San Francisco — APARTMENT — Hyman & Appleton, archts., 68 Post St., San Francisco, preparing preliminary plans 10 story and basement, Class A, Hyde St. near Larkin St. To exceed $500,000. Owner's name withheld.

Calif., San Francisco—APARTMENT—E. V. Lacey, 180 Jessie St., having plans prepared by C. O. Clausen, Hearst Bldg., 8 story and basement, rein.-con., O'Farrell St. near Jones St. $200,000.

Calif., San Francisco—CLUBHOUSE—San Francisco Yacht Club, 716 Water St., Sausalito, plans clubhouse, foot of Baker St., here. $250,000.

Calif., San Francisco — HOSPITAL — St. Francis Hospital, Hyde and Bush Sts., having preliminary plans prepared by A. I. Coffey, Humboldt Bank Bldg., 4 story and basement, rein.-con., annex. $250,000.

Calif., San Francisco — HOTEL and STORE—O. R. Thayer, archt., 110 Sutter St., preparing plans 4 story, concrete, south of Market section. $150,000. Owner's name withheld.

Calif., San Luis Obispo—JAIL and HOSPITAL—San Luis Obispo Co., had plans prepared by Miller & Warnecke, 1404 Franklin St., Oakland, brick jail and hospital. $150,000 or more.

Calif., Santa Barbara — STORE and LOFT—R. H. Orr, archt., Corporation Bldg., Los Angeles, preparing plans 4 story and basement, 110 x 145 ft., brick and concrete, Anacapa St. Owner's name withheld.

Calif., Santa Barbara—TEMPLE—Santa Barbara Labor Temple Assn. plans temple on 70 x 120 ft. site. $175,000.

Calif., Santa Cruz—COURTHOUSE and HOSPITAL—Santa Cruz Co., plans election $400,000 bonds, for courthouse; also $150,000 or more bonds, for hospital, both fireproof construction.

Calif., Watsonville — HOTEL — Resetar Bros., having plans prepared by W. H. Weeks, 369 Pine St., San Francisco, 4 story and basement, 75 room, rein.-con., Main St. and West Lake Ave. $175,000.

Ont., New Toronto—EXCHANGE—Bell Telephone Co. of Canada, plans 2 or 3 story and basement, rein.-con., brick and steel, plain foundation, 6th St. $150,000. S. J. Totten, Weston, mgr.

Ont., Toronto—OFFICE—Canadian Natl. Ry., New Union Sta., Montreal, soon takes bids 26 story, 60x90x295 ft. office building, here. $2,500,000.

Ont., Toronto—STORE and GARAGE—Bell Telephone Co. of Canada, 76 Adelaide St. W., purchased site and plans 3 or 4 story 250 x 300 ft. rein.-con., brick and steel, plain foundation, Shaw St. F. Kennedy, mgr.

BIDS DESIRED

Mass., Brookline (Boston P. O.) — APARTMENT—Marden & Orlando Constr. Co., 333 Washington St., Boston, will build 3 story and basement, brick and stone, plain foundation, St. Paul and Beacon Sts. $150,000. Work will be done by separate contracts. S. S. Eisenberg, 46 Cornhill St., Boston, archt.

Mass., Cambridge—WAREHOUSE—G. E. Prebble, 485 Massachusetts Ave., taking bids 3 story and basement, 60 x 90 ft., brick, plain foundation, 798-800 Massachusetts Ave. $150,000. W. E. Cotter, 12 Harvard St., Somerville, archt. Noted May 28.

Mass., Springfield — APARTMENT — I. Satin, 270 Worthington St., taking bids 3 story and basement, 40 x 140 ft., brick, Worthington St. $150,000. J. W. Foster, 105 Bridge St., archt. Noted Oct. 23.

Mass., West Medford (Boston P. O.)—APARTMENT — Brentwood Court Corp., c/o Whitten & Gore, archts., 31 Milk St., Boston, will build 3 story and basement, 112 x 136 ft., rein.-con., brick and stone, plain foundation, here. Work will be done by separate contracts under supervision of archts. $250,000.

Conn., New Britain—APARTMENT and STORE—Ukranian Corp., c/o C. C. Palmer, archt., 85 West Main St., taking bids 4 story and basement, 80 x 85 ft., brick and steel, North St. $150,000. Noted Apr. 16.

Conn., New Britain—SOCIAL—W. H. McKay, archt., Professional Bldg., taking bids and opens same about June 20, 3 story, steel and brick, Main St., for Y. M. T. A. & B. Society, W. Kerin. $150,000. Noted May 7.

N. Y., Rome—DORMITORY—June 30, by F. R. Utter, supt. Purchase, Albany, constructing Dormitory O, heating, etc., here. S. W. Jones, Albany, state archt.; adv. E. N.-R. June 11.

N. Y., Sonyea—HOSPITAL—June 30, by F. R. Utter, supt. Purchase, Albany, alterations and additions to hospital, Craig Colony, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. June 11.

N. J., Glen Gardner—HOSPITAL—June 16, by Bd. Institutions & Agencies, Trenton, 2½ story, 44 x 273 ft. with 100 ft. wing childrens hospital $258,000; 3 story, 30 x 108 ft. employes building, $65,000; 3 story, 32 x 70 ft., infirmary; 1 story, 20 x 100 ft. dining room, etc., all tile and stucco, here. A. B. Mills, State Office Bldg., Trenton, state archt.

N. J., Woodbine — DORMITORY — June 23, by Bd. Institutions & Agencies, Trenton, 2 story, 30 x 70 ft. dormitory with 30 x 70 ft. wing, 2 story, 28 x 29 ft. doctors cottage, etc., here. A. B. Mills, Trenton, state archt.

Pa., McKeesport—HOTEL—June 13, by McKeesport Community Hotel Co., and B. Jannsen, archt., Century Bldg., Pittsburgh, 4 story and basement, 120 x 140 ft., brick, steel and tile, 5th Ave. and Blackberry St. $350,000. Noted June 4.

Pa., Phila.—APARTMENT—J. Gorchor, 4116 Girard Ave., will build 4 story and basement, 106 x 163 ft., brick, plain foundation, Lincoln Dr. and Hortter St. $250,000. Work will be done by separate contracts. J. E. Fieldstein, Otis Bldg., archt.

Pa., Phila. — HOTEL — W. L. Charr, archt., Victory Bldg., taking bids on separate contracts, 4 story and basement, 20 x 197 ft., brick and steel addition, plain foundation, 8th and Walnut Sts., for Walnut Hotel, 208 South 8th St. $140,000.

Pa., Phila.—TEMPLE—June 24, by H. W. Custor, archt., Stephen Girard Bldg., 7 story, basement and sub-basement, 100 x 180 ft., stone and steel, plain foundation, Broad and Race Sts., for Scottish Rite Consistory, Broad and Race Sts. $1,000,000. Noted Sept. 25.

Ala., Huntsville—HOSPITAL—June 23, by City Clerk, 2 story, 150 x 200 ft. hospital for City. $150,000. Noted Mar. 19.

O., Cleveland — COMMERCIAL, etc. — Banater Hall Assn., c/o O. N. Chamberlin, archt., 1222 West Clifton Blvd., Lakewood, taking bids 3 story and basement, 83 x 132 ft., brick, steel and concrete commercial, lodge and dance hall, West 120th St. and Lorain Ave., here. $150,000.

Mich., Detroit — HOTEL — L. Kamper, archt., 3729 Cass Ave., taking bids 10 story and basement, 300 room, concrete, brick, steel and terra cotta, Woodward and Seward Aves. Owner's name withheld.

Mich., Detroit — OFFICE — Bonnan & Caffee, 300 Barlum Bldg., taking bids 10 story and basement, 85 x 120 ft., rein.-con. brick and terra cott., Cass Ave. and Grand Blvd., for B. F. Stephenson, 1340 Penobscot Bldg.

Ill., Joliet—ORPHANAGE—June 17 (extended date), by E. Brielmaier & Sons, archts., 432 Bway., Milwaukee, Wis., 3 story and basement, brick and concrete, plain foundation, here, for Guardian Angel Orphanage. $400,000. Noted June 4.

Wis., Madison — APARTMENT — W. J. Taylor, 2118 Regent St., taking bids 3 story, 60 x 122 ft., rein.-con., brick and steel, plain foundation. E. Tough, Washington Bldg., archt.

Mo., Kansas City—STORE—July 1, by Holt, Price & Barnes, archts., 800 Davidson Bldg., 8 story and basement, 100 x 107 ft., rein.-con., brick and stone, 13th and Baltimore Sts., for R. Keith Furniture & Carpet Co., R. Keith, pres., 1101 Grand Ave. $400,000. Noted May 21.

Calif., Los Angeles—LOFTS—Curlett & Beelman, archts., Union Bank Bldg., taking bids 12 story and basement, 140 x 160 ft., rein.-con., 9th and Los Angeles Sts., for Klein-Norton Co., 253 South Los Angeles St. To exceed $350,000.

BIDS RECEIVED

Mass., East Boston (Boston P. O.)—HOSPITAL—City of Boston, G. R. White Fund, Trustees, 2 story and basement, brick and limestone, plain foundation, Paris and Emmons St., here, from A. Piotti & Co., 708 Dudley St., Dorchester, $158,982. Noted May 28.

Pa., Nazareth — DORMITORY — Poor Directors Northampton Co., 2 story, 27 x 97 ft. with three 32 x 116 ft. wings, brick, plain foundation, general contract, from Ochs Constr. Co., Allentown, $118,350. Noted June 4.

Calif., Oakland—HOSPITAL—Alameda Co., for hospital, carpentry work, from O. Duval & Son, Dalziel Bldg., $123,500; electric work, from Newbury-Pierce Co., 481 56th St., $32,452.

CONTRACTS AWARDED

Mass., Amherst — DORMITORY — Amherst College, D. G. Olds, pres., 4 story and basement, 45 x 140 ft., brick and granite, to Casper Ranger Constr. Co., 20 Bond St., Holyoke. Archts. est. $200,000. Noted May 28.

Mass., Boston — MERCANTILE — B. Rockman, 685 Commonwealth Ave., 4 story and basement, rein.-con., plain foundation, Deerfield St., to P. Rich & Son, 3 Tremont Row, Boston. Archts. est. $200,000.

Buildings—Commercial (Continued)

Mass., Boston—STORE and OFFICE—A. Carbone, c/o Mowll & Rand, archts., 21 School St., 6 story and basement, 10,000 sq.ft. floor space, rein.-con. and brick, plain foundation, Province St., to I. Cinviser, 447 Washington St., Mattapan. To exceed $150,000. Noted Apr. 30.

Mass., Medford (Boston P. O.)—STORE and OFFICE—Progressive Building Trust, c/o Desmond & Lord, archts., 1 Beacon St., Boston, 3 story and basement, brick and stone, Salem St. and Riverside Ave., to S. Glazier, 29 Cottage St., Chelsea. Archts. est. $50,000.

Mass., Quincy (Boston P. O.)—STORE—J. J. Johnson, 31 Milk St., Boston, 2 story and basement, brick, Washington and Temple Sts., to E. S. Butterfield Co., 88 Broad St., Boston. Archts. est. $175,000.

Mass., Winchester — HOME — Home for Aged People, 2 Kendall St., 2 story and basement, rein.-con. and brick, Kendall St., to G. Hamilton, 4 Wedge Pond Rd. Archts. est. $150,000 or more.

Conn., Hartford — STORAGE and OFFICE—Southern New England Telephone Co., 114 Court St., New Haven, 1 and 2 story, 75 x 450 ft., brick and steel storage building and 2 story, 35 x 75 ft. office building, brick and steel, Albany Ave., to Clark Constr. Co., 168 Grand St., Waterbury. Archts. est. $325,000.

Conn., Stamford—THEATRE—C. Vuono, 51 River St., 2 story, brick and steel, 1500 seating capacity, to Vuono Constr. Co., 303 Main St. Archts. est. $200,000.

Conn., West Haven — APARTMENT — Spadoni & Co., De Witt St., New Haven, will build 2 story and basement, 110 x 175 ft., brick, Elm St. and 3rd Ave., by day labor. $150,000. H. S. Cannici, 82 Church St., New Haven, archt.

N. Y., Long Island City—FIRE STATION—T. J. Drennan, fire comr. Municipal Bldg., New York City, central fire station for Bureau Fire Alarm & Telegraph, Myrtle Ave., Forest Park, here, to Dooley Stapleton Corp., 257 Adelphia Pl., Brooklyn, $135,224. Noted June 4.

N. Y., New York—HOTEL—Lapidus Eng. Co., (owner and builder) 103 Park Ave., will build brick, steel and stone, plain foundation, 21-39 West 73rd St. $3,000,000.

N. J., Maplewood (br. of South Orange)—HOME—Marcus Ward Home, brick, steel and stone, administration building and 2 dormitories, plain foundations, here, to Whitney Co., 101 Park Ave., New York City. Archts. est. $2,000,000.

Pa., Lock Haven—BANK—First Natl. Bank, 2 story and basement, 24 x 60 ft. and 24 x 100 ft., brick addition, plain foundation, to Tidlow Bros., Lock Haven.

Pa., Pittsburgh — OFFICE — Bell Telephone Co. of Pittsburgh, 416 7th St., brick, steel and concrete office building, to W. F. Trimble & Sons, 1719 Pennsylvania Ave., Pittsburgh. Archts. est. $160,000.

Pa., Rosemont — DORMITORY — Rosemont College, 3 story and basement, 54 x 106 ft., brick and steel plain foundation, on campus, to W. Steele & Sons Co., 219 North Broad St., Phila. Archts. est. $150,000.

Pa., State College — THEATRE — M. Baum, State College, 3 story and basement, 69 x 115 ft., brick and steel, South Allin St., to F. D. Beyer & Co., Tyrone St. Archts. est. $150,000. Noted Dec. 18.

Md., Baltimore—HOSPITAL—Hebrew Hospital & Asylum Assn., Monument and Rutland Aves., 7 story and basement, 155 x 176 ft., brick and steel, plain foundation, to M. A. Long Co., 10 West Chase St., $1,000,000.

W. Va., Wheeling—OFFICE—Wheeling Electric Co., 51 16th St., general contract 3 story, 56 x 140 ft., brick, steel and concrete, 16th St., to R. R. Kitchen & Co., Bae Mar. Pl. Archts. est. $175,000.

S. C., Columbia—OFFICE—Natl. Loan & Exchange Bank, 3 story and basement, 60 x 110 ft., rein.-con. and tile, to J. C. Heslep, 2121 Divine St., Columbia. Archts. est. $150,000.

Ga., Atlanta — CLUB — Atlanta Athletic Club, 37 Audubon Ave., general contract, 7 story and basement, fireproof, to Flagler Constr. Co., 34 Cone St., Atlanta, $371,000.

Fla., Tampa—HOTEL—S. J. Carnes, Hotel Olive, 10 story, 50 x 100 ft., rein.-con. addition to Hotel Olive, Franklin and Washington Sts., to Logan Bros., 918 Citizens Bank Bldg., $365,000.

Miss., Meridian — Y. M. C. A., c/o 506 Citizens Bank Bldg., 3 story and basement, 125 x 125 ft., rein.-con., brick, stone and tile, 9th and 23rd Sts., to W. L. Hancock, Meridian. Archts. est. $150,000. Noted Sept. 25.

La., New Orleans—TEMPLE—S. Stone, Jr., archt., 714 Union St., 18 story, steel, brick and limestone, St. Charles and Perdido Sts., general contract, to J. Stewart & Co., 408 Pine St., St. Louis, Mo., $1,144,350; steel to Virginia Bridge & Iron Co., Roanoke, Va., $280,000; plumbing, to Union Electric Plumbing & Heating Co., 625 Poydras St., $141,327; ventilating, to J. W. Hull Plumbing & Heating Co., Birmingham, Ala., $59,675. Noted Apr. 16.

Tenn., Memphis — STORE — Perel & Lowenstein, 168 South Main St., general contract remodeling 4 story and basement building, 144 South Main St., to F. J. Ozanne & Co., Scimitar Bldg. Archts. est. $150,000.

O., Canton—ADMINISTRATION—City, administration building, to R. G. Witters, Witters Bldg. $154,200.

O., Cincinnati — APARTMENT — Woodburn Impvt. Co., Schmidt Bldg., 4 story and basement, 152 x 385 ft., rein.-con. and brick, plain foundation, Woodburn Ave., concrete work, to Orr, Humble & Kreeger, 663 Lincoln Ave., brick work, to R. Fuerst, 303 Palace Theatre Bldg.; carpentry work, to E. Honnert, Grandin Rd. Total $240,000.

O., Cleveland—APARTMENT—F. Stein, 2195 East 93rd St., 3 story and basement, 37x150 ft., brick, Cornell Rd., to Rosenthal & Rothstein, 2304 East 97th St. Archts. est. $175,000. Noted Apr. 30.

O., Cleveland—APARTMENT—Narosny & Libhaber, 1087 Thornhill Dr., 3 story and basement, 47 x 152 ft., brick and timber, 11223 Ashbury Ave., to M. Berkoff, 3346 East 136th St. Archts. est. $175,000.

O., Cleveland—COMMERCIAL and CLUB—Polish Alliance of America, c/o F. Rell, 3772 East 71st St., 2 story and basement, 100x125 ft., brick, steel and concrete, Bway., to Vulcan Constr. Co., 6600 Park Ave. Archts. est. $150,000. Noted Dec. 4.

O., Cleveland—HOTEL—Cutler Turkish Bath Co., W. J. Cutler, pres. and mgr., 41 Public Sq., 5 story and basement, 47 x 176 ft., brick and rein.-con., incl. swimming pool, 1112 Prospect Ave., to Crowell & Little Constr. Co., Hanna Bldg. Archts. est. $400,000. Noted Apr. 30.

O., Cleveland—FIRE STATION—City, E. Barry, dir. Pub. Safety, City Hall 2 story and basement, 30x92x96x119 ft., brick, steel and concrete, Central Ave. to deHamel Constr. Co. Plymouth Bldg. Archts. est. $200,000. Noted May 21.

O., Cleveland—STORE—McCrory Stores Co., S. R. Cunningham, constr. mgr., 13 Central Sq., Youngstown, 4 story, brick, steel and concrete addition to department store, 430 Euclid Ave., here, to Van Blarcom Co., Natl. City Bldg. Archts. est. $150,000. Noted May 28.

Ill., Aurora—SANITARIUM—Mercyville Sanitarium, c/o Sister Mary Cornelia, St. Mary's Hospital, 2 story and basement, 184 x 225 ft., rein.-con., brick and stone sanitarium, to Great Lakes Constr. Co., 304 South Wabash Ave., Chicago. Archts. est. $250,000. Noted Apr. 23.

Wis., La Crosse—HOSPITAL—Merman & Skogstad, archts., Linker Bldg., 5 story and basement, 40 x 100 ft., brick and concrete addition, plain foundation, to F. R. Schwalbe & Sons, 414 Rivoli Bldg., for Grandview Hospital, 1707 Main St. $150,000. Noted May 28.

Wis., Madison — APARTMENT — Gay Bros. Co., 16 North Carroll St., will build 3 story, 60 x 68 ft., rein.-con., brick and steel plain foundation, Monroe St., by day labor. $150,000. Balch & Pope, Gay Bldg., archts. Noted May 21.

Wis., West Allis — THEATRE, etc. — Allis Amusement Co., 526 65th Ave., 2 story and basement, 62 x 120 ft., brick and concrete, plain foundation, Greenfield Ave., to J. J. Ganser, 486 68th Ave. Archts. est. $150,000.

Mo., St. Louis—DANCE HALL—H. Albers, 2839 Olive St., 3 story and basement, 75 x 125 ft., rein.-con., brick and stone, Olive St., to Brunson Brockmeyer Constr. Co., Ry. Exch. Bldg. Noted Dec. 11.

Mo., St. Louis — STORE, etc. — C. C. Ketchum, 722 Chestnut St., will build 2 story and basement, 78 x 118 ft., rein.-con., and brick, Olive St., by day labor and subcontracts, under supervision of J. D. Paulus, archt., 4729 Northland Ave.

Okla., Ft. Supply — HOSPITAL — State Bd. Affairs, Oklahoma City, 2 story and basement, 92 x 178 ft., brick hospital, plain foundation, on campus of State Insane Asylum, here, to W. S. Bellows, Hershowitz Bldg., Oklahoma City, $141,862.

Wash., Seattle—APARTMENT—Real Estate Investment Co., Securities Bldg., 7 story and basement, rein.-con., brick and stone, 5th and Blanchard Sts., to Albertson, Cornell & Walsh, 112 Massachusetts St. Archts. est. $250,000.

Ore., Portland — APARTMENT — Jetry Investment Co., 4 story, 76 x 100 ft., rein.-con. and tile, plain foundation, 21st and Taylor Sts., to L. H. Hoffman, U. S. Natl. Bank Bldg. Archts. est. $150,000.

Ore., Portland — WAREHOUSE—Security Storage & Transfer Co., c/o Houghtaling & Dougan Co., archts., Elks Temple, general contract, 7 story, 50x80x200 ft., rein.-con., plain foundation, 3rd, 4th and Glison Sts., to A. J. Bingham, 655 Lovejoy St., $285,752.

Calif., Los Angeles—BANK and OFFICE—Pacific Natl. Bank, 652 South Olive St., general contract 12 story and basement, 95 x 166 ft., brick, concrete and terra cotta, 9th and Hill Sts., to R. E. Millsay, 432 Marsh-Strong Bldg., Los Angeles, $860,000.

Calif., Los Angeles—OFFICE and LOFT—Curlett & Beelman, archts., 408 Union Bank Bldg., 12 story and basement, 145 x 170 ft., brick and terra cotta, 7th and Main Sts., to J. V. McNeil Co., 5860 South Park Ave., for 7th and Main Building Co. $452,000.

Calif., Oakland — HOSPITAL — Providence Hospital, Bway. and 26th St., 5 story and basement, rein.-con., Webster and Summit Sts., to Barrett & Hilp, 918 Harrison St., San Francisco, approximately $750,000.

Calif., Oakland—STORE and OFFICE—Metropolitan 5 & 10 Cent Store, 3 story and basement, brick or concrete, to F. A. Muller, Syndicate Bldg., $150,000.

Buildings—Educational, Religious

PROPOSED WORK

Me., Brewer — SCHOOL — City, School Com. rejected bids 2 story and basement, brick and stone, Center and Somerset Sts. $170,000. Plans will be revised and refigured. Noted May 14.

Mass., Clinton—HIGH SCHOOL—Town School Building Com. plans 2 story high school. $150,000. Engineer and architect not selected.

Mass., Westfield — HIGH SCHOOL — Town, R. Loomis, chn., having preliminary plans prepared by M. B. Harding, 97 Elm St., 2 story and basement, brick and steel high school. $400,000. Noted Mar. 6.

Mass., Woburn—SCHOOL—City, T. N. Duffy, mayor, City Hall, having sketches made by W. B. Colleary, 80 Boylston St., Boston, 2 story and basement, brick addition to Goodyear School. $150,000. Noted Jan. 29.

R. I., Edgewood — LIBRARY — Hall Estate, c/o G. F. Hall, archt., 807 Union Trust Bldg., Providence, having plans prepared Memorial Library, 2 story, brick. $150,000 or more.

Conn., New Britain — SCHOOL — Bd. Educ. takes bids about June 19, new rein.-con. brick and stone, Goodwin St. $250,000. H. F. Ludorf, 122 Main St., archt.

Conn., Willimantic—SCHOOL—State Bd. Educ., State House, Hartford, plans State Normal School, here. $150,000 or more. Engineer and architect not selected.

Conn., Winsted—SCHOOL—Town Building Comn.; Town Hall, plans two schools, one in 1st Dist. and other in 4th Dist. $150,000 each. Engineer and architect not selected.

Fla., New Smyrna — SCHOOLS — Voted $150,000 bonds, for new schools and $50,000 bonds, repairing present schools.

Tenn., Nashville — INSTITUTIONS — Dept. State Institutions, plans additions to Tennessee School for Deaf, $60,000, also to Eastern Hospital for Insane, $125,000. L. Pope, comr.

O., Cincinnati — MUSEUM — Cincinnati Art Museum, Eden Park, having plans prepared by Garber & Woodward, 2803 Union Central Bldg., 2 story and basement, rein.-con. and brick, Eden Park. $300,000.

O., Ravenna—CHURCH and PARISH—Immaculate Conception Church, c/o J. Daly, pastor, having plans prepared by W. C. Jansen, 1227 Prospect Ave., Cleveland. 1 and 2 story, brick, steel and concrete. $150,000.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by McGrath & Van Tyle, 2231 Park Ave., 2 story and basement, rein.-con., brick and steel, plain foundation, Minden Ave. $287,492.

Mich., Detroit—SCHOOLS—Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcomson & Higginbotham, 1216 Griswold St., 2 story and basement, rein.-con., brick and steel, Chelsea and Nelson Aves., $171,700; school at Tyler and Wildemere Aves.,

Buildings—Educational, Religious
(Continued)

$172,480; school at Chalfonte and Greenlawn Aves., $171,700; addition to Central High School, Roosevelt Field, $578,480; addition to Northwestern High School, Grand River Ave., $84,322.

Ill., Granite City — LIBRARY — Public Library Bd., having preliminary plans prepared by C. Pauly, 2 story and basement, 75 x 90 ft., concrete, brick and stone, 19th and C Sts. $150,000.

Ia., Corning—SCHOOL—Voted $160,000 bonds, for 2 story and basement, concrete and brick school, for Bd. Educ. Thomas, McLennan & Thomas, 525 17th St., Des Moines, archts. Noted Jan. 29.

Ia., Waverly—SCHOOL—Bd. Educ., M. M. Kingsley, secy. having plans prepared by H. Burr, Waterloo, 2 story and basement, 130 x 180 ft., rein.-con., brick, tile and stone school. $175,000.

Kan., Atchison — SCHOOL — Bd. Educ. having plans prepared by W. H. Sayler & Co., 309 Mutual Bldg., Kansas City, Mo., 1 story and basement, 88x110 ft., terra cotta school. $150,000. Noted May 7.

Kan., Haviland—New waterworks system, to Burt & Tripp, Hutchinson, $33,044.

Mo., Kansas City—SCHOOLS—Election June 23, $5,000,000 bonds for additions to Northeast Junior High, Paseo High, Southeast High and East Side High Schools, also new Eastside Junior High, Negro Junior High, Jefferson, Seven Oaks, Cherry St., and W. W. Yates Grade Schools, for Bd. Educ., Pub. Library Bldg. C. A. Smith, Finance Bldg., archt.

Mo., Liberty—DORMITORY and CHAPEL William Jewell College, c/o H. C. Wayman, pres., had plans prepared by C. A. Smith, 800 Finance Bldg., Kansas City, and soon takes bids 2 and 3 story and basement, 58 x 114 ft., and 63 x 114 ft., rein.-con., brick and stone, on campus. $150,000. Noted Jan. 8.

Mo., St. Joseph—SCHOOLS—Election June 20, $300,000 bonds, two schools for Bd. Educ.

Mo., St. Louis—SCHOOL—H. P. Hess, archt., 1237 North Taylor Ave., takes bids about June 23, 3 story and basement, rein.-con., brick and stone school and auditorium, 29th St. and Lafayette Ave., for Immaculate Conception Parish. $150,000.

Ark., Fayetteville—UNIVERSITY—University of Arkansas, J. C. Futrell, pres., having plans prepared by Jamieson & Spearl, Arcade Bldg., St. Louis, Mo., two 3 story rein.-con. and brick buildings, for engineering and agricultural departments. $650,000. Noted Apr. 23.

Tex., Denton—CHURCH—First Baptist Congregation plans brick church, Carroll and West Oak Sts. $200,000. Engineer and architect not selected.

Tex., Wichita Falls—SCHOOL—Election June 20, $500,000 bonds for 2 or 3 school buildings. Previous bond issue refused approval by Attorney General on account of error in original order. Noted May 21.

Ore., Ashland — NORMAL SCHOOL — Chamber of Commerce, Portland, having plans prepared by J. V. Benmes, Chamber of Commerce, Portland, one or more state normal school buildings, state grounds, here. $175,000 appropriated. Noted Mar. 12.

Calif., Arbuckle — HIGH SCHOOL — Plans election $150,000 bonds for high school for Pierce Joint Union High School Dist.

Calif., Crockett — HIGH SCHOOL — Crockett Union High School Dist., having preliminary plans prepared by A. A. Brown, Matson Bldg., San Francisco, fireproof high school. $400,000 bonds will be voted to finance project.

Calif., Los Angeles—CHURCH—Seventeenth Church of Christ Scientist, G. Chipman, clk. Bd. Directors, plans fireproof church, Willoughby Ave. $150,000. Engineer and architect not selected.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ. had plans prepared 3 story, 225 x 244 ft., Class B auditorium, 2 story, 52 x 100 ft., Class C classroom and cafeteria building, and 1 story, 52 x 131 ft. shop building, all brick, stone and steel, Indiana and Sabina Sts. $350,000. Hunt & Burns, 701 Laughlin Bldg., archts.

Calif., Los Angeles — SCHOOLS — City having plans prepared by A. C. Martin, Higgins Bldg., 3 story, 120 x 160 ft., science building, and 2 story, 88 x 160 ft., brick, cafeteria building, Hope and Washington Sts. To exceed $150,000.

Calif., Santa Clara—OBSERVATORY and LIBRARY—University of Santa Clara, having plans prepared by J. J. Donovan, 1916 Bway., Oakland, fireproof observatory also library and memorial building. $300,000 or more.

BIDS DESIRED

Mass., Dalton — SCHOOL — Town, E. H. Pierce, chn. com., taking bids 2 story and basement, 60 x 170 ft., brick school. $150,000. Former bids rejected. Thompson, Holmes & Converse, 101 Park Ave., New York City, archts. Noted May 21.

Mass., Pittsfield—PARISH—First Baptist Church, taking bids 4 story, 76 x 100 ft., brick and stone parish house. $175,000. J. M. Vance, 24 North St., archt.

Mass., Raynham—SCHOOL—June 22, by L. B. O'Brien, 24 Centre St., 2 story and basement, brick and stone school for Town. $150,000. F. I. Cooper Corp., 172 Tremont St., Boston, archts. Noted June 4.

Mass., Ware — CHURCH — East Congregational Church Society, C. B. Weatherby, chn., taking bids 1 story and basement, brick and stone church. $150,000. Frohman, Robb & Little, 140 Boylston St., Boston, archts. Noted Apr. 9.

N. J., New Brunswick—RECITATION—June 19, by Bd. Institutions & Agencies, Trenton, 3 story and attic, 75 x 158 ft. brick, and terra cotta, here, for State Agricultural College. $250,000. A. B. Mills, Trenton, state archt.

R. I., Johnston (mail Providence)—SCHOOL—June 23, by School Com., W. C. Gill, chn., 2 story, six room addition to school, Waveland Ave., also 6 room addition, School St., both brick. $150,000. W. R. Walker & Son, 49 Weybosset St., Providence, archts.

R. I., Providence—CONVENT—St. Raymonds R. C. Church, c/o A. J. Murphy, archt., 146 Westminister St., taking bids 3 story and basement, brick, 8th St. $150,000.

Conn., New Britain — SCHOOL — City, J. M. Halloran, chn. taking bids 2 story and basement, about 65 x 300 ft., brick and steel, plain foundation, Day St. $250,000. H. F. Ludorf, 122 Main St., archt. Noted Mar. 19.

Pa., Ellwood City — HIGH SCHOOL — June 30, by Bd. Educ., 3 story, brick, steel and concrete high school. $300,000. W. G. Eckles Co., New Castle, archts.

Pa., Phila.—SCHOOL—June 12, by P. S. Monaghan, archt., 1713 Sansom St., 3 story and basement, 62 x 130 ft., stone, plain foundation, 5th and Spencer Sts., for St. Helena Roman Catholic Church. $165,000.

Pa., York—HIGH SCHOOL—June 29, by Bd. Educ., D. N. Crider, secy., Central School Bldg., having plans prepared by J. B. Hamme, City Bank Bldg., 3 story and basement, 236 x 245 ft., rein.-con. and brick, plain foundation, College Ave. and Beaver St. $1,000,000.

Md., Baltimore—CHURCH and HALL—June 17, by Palmer, Willis & Lamdin, archts., 513 North Charles St., 1 story and basement, 70 x 207 ft., stone, Lakewood Ave. and O'Donnell St., for St. Casimirs Roman Catholic Church, B. Przemielewski, pastor, Kenwood and O'Donnell Sts. $160,000.

Ala., Birmingham—LIBRARY—July 1, by City Comn., 4 story 100x150 ft., rein.-con. and stone, Park Ave. $850,000. Miller & Martin, Little Bldg., archts.

O., Cleveland Heights (Warrensville P. O.)—CHURCH—June 22, by H. W. Maurer, archt., 1991 East 66th St., Cleveland, 1 story, brick, steel and concrete, Caledonia St., here, for Church of the Cross, A. L. Marting, pastor, Berea. $150,000. Noted May 21.

Mich., Port Huron—SCHOOL—June 16, by Donaldson & Meier, archts., 1314 Penobscot Bldg., Detroit, 2 story and basement, 119 x 193 ft., rein.-con., brick, and steel, Erie St., here, for St. Stephens Parish, F. J. McCormick, pastor. $200,000.

Wis., Eau Claire—SCHOOL—June 25, by Bd. Educ., E. Schroeder, secy., 3 story and basement, 208 x 240 ft., brick, tile and concrete, plain foundation. $500,000. E. J. Hancock, Lacock Bldg., archt. Noted Jan. 29.

Minn., Fergus Falls—SCHOOL—June 30, by Bd. Educ., W. Lincoln, clk., 2 story and basement, rein.-con., brick and stone addition. $150,000. W. R. Dennis, Fergus Falls, archt. Noted Mar. 10.

Calif., Berkeley — UNIVERSITY — University of Southern California, taking bids 3 story and basement, 112 x 120 ft., brick, on University Ave. $150,000. J. and D. B. Parkinson, 420 Title Insurance Bldg., Los Angeles, archts. Noted June 4.

Calif., Los Angeles—HIGH SCHOOL—June 17, Bd. Educ., main building and shops, brick, concrete and stucco, Mount Vernon Junior High School site. $345,000. J. C. Austin & F. M. Ashley, Chamber of Commerce Bldg., archts.

BIDS RECEIVED

N. Y., Jamaica — SCHOOL — W. H. Gompert, supt. school buildings, Flatbush Ave. estimated and Concord St., Brooklyn, June 4, P. S. 131, 172nd St., here, from Willetts Constr. Co., 280 Madison Ave., New York City, for Bd. Educ., 500 Park Ave., New York City. $223,171. Noted May 28.

Ark., Little Rock—SCHOOL—Bd. Educ., general contract Pulaskia Heights Ward School, 3 story, brick and concrete, Lee and Oak Sts., from Stewart & McGehee, Kahn Bldg., $118,000; heating and plumbing, from Robinson Bros., Little Rock, $24,470.

Calif., San Francisco—SCHOOL—City and San Francisco Co., general contract for Douglas-Everett School, from Barrett & Hilp, 918 Harrison St., San Francisco, $241,548.

CONTRACTS AWARDED

Vt., Newport—SCHOOL—School Comn., 2 story and basement, 65 x 100 ft. brick, to C. W. Dwinnell, Orleans. Archts. est. $150,000.

Mass., Attleboro—SCHOOL—City School Comn., 2 story and basement, brick school, to A. F. Smiley Constr. Co., 308 Main St., Pawtucket, R. I. Archts. est. $150,000.

Mass., Cambridge—MUSEUM—Harvard University, Fogg Art Museum, 3 story, brick and steel, Quincy St., to Hegeman Harris, 360 Madison Ave., New York City. Archts. est. to exceed $150,000.

Mass., Fall River—CHURCH—St. John the Baptist Church, 1 story and basement, brick and stone, Field and Stafford Sts., to C. H. Hodgate Co., 310 Belmont St. Archts. est. $150,000.

Mass., New Bedford—CHURCH—Howard Methodist Episcopal Church, Kempton St., 2 story and basement, 52 x 100 ft., rein.-con., brick and stone, Rockdale Ave., to H. C. Bailey, South Dartmouth. Archts. est. $150,000.

Mass., Worcester — SCHOOL — City, 5 story and basement, 52 x 150 ft., brick and limestone addition to boys trade school, Prescott St., to E. P. Pitfield Co., 405 Main St., Worcester. Archts. est. $250,000. Noted June 4.

Pa., Phila. — SCHOOL — Most Blessed Sacrament Roman Catholic Church, J. T. Higgins, 56th and Chester Sts., 4 story and basement, 67 x 87 ft., limestone addition, plain foundation, 56th and Chester Sts., to M. Melody & Son, 1322 Race St. Archts. est. $200,000.

Pa., Phila.—SCHOOL—P. A. Monaghan, archt., 1713 Sansom St., 3 story and basement, 63 x 143 ft., brick and steel, plain foundation, 64th and Buist Sts., to McCloskey Co., 1620 Thompson St., for St. Barnabas Roman Catholic Church, J. E. Dougherty, pastor. Archts. est. $150,000. Noted May 21.

O., Canton—SCHOOL—Bd. Educ., 2 story brick, steel and concrete addition to Gibbs Ave. school, to H. D. Walker, Canton, $152,864. Noted May 21.

O., Cincinnati—CHURCH—St. Boniface Church, Northside, 2 story and basement, 58 x 151 ft., rein.-con., brick and stone, Chase Ave., concrete work, to R. Harig Constr. Co., 2174 Western Ave.; stone and brick work, to H. Meirose & Son, Haight St.; carpentry work, to H. Berns, North Bend Rd. Total $300,000.

O., Cleveland—CHURCH—E. T. P. Graham, archts., Newbury St., Boston, Mass., and F. S. Fisk, associated archt., 6007 Euclid Ave., 1 story and basement, 102 x 186 ft., Lorain Ave., to J. Grant & Son, 4500 Euclid Ave., for St. Ignatius Roman Catholic Church, T. A. Hanrahan, pastor, 10205 Lorain Ave. Archts. est. $400,000.

O., Cleveland — SYNAGOGUE — Chevas Jerusalem Congregation, H. F. Epstein, rabbi, 2297 East 89th St., 2 story and basement, 50x175 ft., brick and steel, Parkwood Dr., to I. and B. Dolinsky, 6317 Kingman Rd. Archts. est. $150,000. Noted May 21.

O., Cleveland Heights (Warrensville P. O.)—SCHOOL— Bd. Educ., W. Nesbit, dir. 1781 Lee Rd., 2 story, 33 x 179 ft., brick, steel and timber, Noble Rd., to A. A. Lane Constr. Co., 1869 East 55th St., Cleveland, $123,086. Archts. est. $160,000. Noted June 4.

O., Lima—HIGH SCHOOL—Bd. Educ., Centralized High School 2 story and basement, in Allen Co., Shawnee Twp., to Laudenbeck & Son, Sidney, $144,217. Noted May 7.

O., South Charleston—HIGH SCHOOL—Bd. Educ., 2 story and basement, rein.-con. and brick, to Chappelear & Gardner, Portsmouth, $111,249. Noted Apr. 23.

Ill., Joliet — HIGH SCHOOL — Chicago Diocese Catholic Church, c/o Archbishop,

Buildings—Educational, Religious
(Continued)

Chicago, 3 story, 120 x 223 ft., rein.-con., brick and stone, De La Salle St., here, to Kaiser-Ducett Co., 605 Joliet St.

Ia., Marengo — SCHOOL — Bd. Educ., 2 story and part basement, 140 x 140 ft., brick and concrete school, general contract, to Paulson Constr. Co., 347 Granby Rd., Cedar Rapids, $117,695; heating and plumbing, to T. Rinehart, La Mars, $26,540. Noted May 21.

Minn., Minneapolis — SCHOOL — Bd. Educ., City Hall, general contract for rein.-con. and brick school addition, Spruce Pl. and 14th St., to Madsen Bros., 548 Builders Exch. Bldg., and Madsen & Simonsen, 2817 Lyndale Ave S., $83,480. Noted May 21.

Mo., St. Louis—LIBRARY—St. Louis Medical Society, 3531 Pine St., 2 story and basement, 59 x 120 ft., rein.-con., brick and stone, Lindell Blvd., to Dickie Constr. Co., Syndicate Bldg. Archts. est. $165,000. Noted Jan. 29.

Tex., Houston — HIGH SCHOOL — Bd. Educ., c/o H. L. Mills, bus. mgr., 1600 Washington Ave., Montrose Junior High School, 3 story, brick, stone and steel, Woodhead St. and Westheimer Rd., to J. T. Taylor, Burk Burnett Bldg., Fort Worth, $381,550. Noted June 4.

Calif., Compton—ADMINISTRATION—Compton Union High School Dist., 2 story and basement, 188 x 220 ft., brick high school, to J. A. Hill Constr. Co., 1749 West 33rd St., Los Angeles, $265,900. This corrects report in June 4 issue.

Calif., Sacramento—COLLEGE—Sacramento Junior College Dist., general contract group of buildings, to W. Kearing, Forum Bldg., $299,900; plumbing to Hately & Hateley, Mitau Bldg., $25,854.

Federal Government Work

PROPOSED WORK

N. Y., Brooklyn—Quarters—Spec. 4937—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids officers' quarters, at Naval Hospital, here.

D. C., Wash.—Quarters—Spec. 5087—Bureau Yards & Docks, Navy Dept., soon takes bids extending nurses quarters, here.

BIDS DESIRED

N. Y., Brooklyn—Trusses—June 22, by Quartermaster Supply Officer, Army Supply Base, 1st Ave. and 59th St., steel trusses; adv. E. N.-R. June 11.

N. J., Lakehurst—Garage—Spec. 5124—June 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., steel garage at Naval Air Sta., here.

N. J., Oceanport—Quarters—June 18, at office Constructing Quartermaster, Camp Alfred Vail, 1 officers quarters; adv. E. N.-R. June 11.

Pa., Franklin—Post Office—July 10, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story, brick and stone post office, here; adv. E. N.-R. June 11.

Md., Annapolis—Waterworks—Spec. 5119—June 22, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 80,000 gal. rein.-con. reservoir, and piping, etc. at Naval Academy, here; adv. E. N.-R. June 11.

Va., Quantico—Coal Bins—Spec. 5085—June 22, by Bureau Yards & Docks, Navy Dept., Wash., D. C., elevated timber coal storage bins, railroad trestles, etc., here.

W. Va., Clarksburg—Post Office—July 7, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling Post Office here; adv. E. N.-R. June 11.

S. C., Columbia—Post Office—June 24, by Treas. Dept. at office Supervising Archt., Wash., D. C., addition to post office, here; adv. E. N.-R. June 11.

Ala., Florence—Crane—July 20, by U. S. Engineer Office, Gantry Crane on spillway section of Wilson Dam; adv. E. N.-R. June 11.

Fla., Pensacola—Storage Tanks—June 22 by Bureau Yards & Docks, Navy Dept., Wash., D. C., two 90,000 gal. steel storage tanks, pumphouse, piping, etc., here.

Mich., Saginaw—Remodeling—July 6, by Treas. Dept. at office J. A. Wetmore, acting supervising archt., Wash., D. C., remodeling and extending post office, here.

Ark., Camden—Post Office—July 8, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging post office, here.

Ark., Hot Springs — Mess Hall and Library—June 11, by Constructing Quartermaster, Army and Navy General Hospital, additions to mess hall and library building, etc.

New Mexico—Road—June 19, by E. S. Wheeler, dist. engr. Bureau Pub. Rds., 242 West Washington St., Phoenix, Ariz., grading, crushed rock or crushed gravel surfacing, etc., 5.293 mi. Saliz Canyon-San Francisco River Sect. of Datil-Reserve Dry Creek Natl. Forest Rd., Catron Co., here.

N. M., Fort Bayard—Roads—June 30, by U. S. Veterans Bureau, Wash., D. C., constructing roads at U. S. Veterans Hospital, here.

California — Road — June 16, by C. H. Sweetser, dist. engr. Bureau Pub. Rds., 9 Main St., San Francisco, grading, crushed rock surfacing, etc. 3.71 mi. Yuba Pass Extension Forest Rd., Sierra Co.

P. R., San Juan—June 15, by Eng. Dept. War Dept., Room 616 Armory Bldg., New York City, reconstructing section of wall at San Augustine Battery, here.

BIDS RECEIVED

Miss., Brunswick — Levee Work — Third Mississippi River Dist., P. O. Box 404, Vicksburg, 500,000 cu.yd. in completing Peelers New Levee Stations 150-250, in Lower Yazoo Levee Dist., here, from Rodgers, Denison & Brown, 62 South Front St., Memphis, Tenn., $0.18 per cu.yd. Noted May 7.

Miss., Vicksburg — Levee Work — Third Mississippi River Dist., P. O. Box 404, from G. H. and W. T. Lowrance, Memphis, Tenn., 600,000 cu.yd. levee work in Lower Leland set over and enlargement $0.229, 300,000 cu.yd. Bunches Bend enlargement $0.269, 600,000 cu.yd. Hollybrook Point Lookout enlargement Sta., 1770-1803 and Stas. 1853-2030 $0.237. Noted May 7.

Mo., St. Louis—Towboat—U. S. Engineer Office, War Dept., Wash., D. C., 100 ft. steel hull Diesel electric towboat, here, from Howard Shipyards & Dock Co., Jeffersonville, Ind., $124,000. Noted Apr. 23.

Colorado — Road — Bureau Pub. Rds., Custom House Bldg., Denver, grading 5.18 mi. Sugar Creek-West Creek Natl. Forest Rd., Douglas Co., from Shields & Kyle, Pagosa Springs, unclassified $43,910; from K. V. Johnson, Dover Hotel, classified $48,013.

California—Bridge—C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, Donner Summit Bridge, on Auburn Truckee State Highway, from C. C. Gildersleeve, 1503 Ferger Ave., Fresno, $26,359. May 21.

Calif., Mare Island—Paving—Spec. 5092—Bureau Yards & Docks, Navy Dept., Wash., D. C., asphalt paving, here, from Associated Constr. Co., 112 Market St., San Francisco, (1) $12,000 (2) $400 (3) $10,500 (4) $2,000 (5) $3,500.

CONTRACTS AWARDED

R. I., Melville—Chimney—Spec. 5101—Bureau Yards & Docks Navy Dept., Wash., D. C., radial brick chimney, here, to A. Custodis Chimney Constr. Co., 95 Nassau St., New York City, $3,700 (90 days). Noted May 28.

D. C., Wash.—Dredge—U. S. Engineer Office, War Dept., constructing hopper dredge Willets Point, to Federal Ship & Dry Dock Co., 26 Beaver St., New York City, $541,700.

Miss., Brunswick—Levee Work—Third Mississippi River Dist., P. O. Box 404, Vicksburg, 100,000 cu.yd. below Eagle Pass, Lower Yazoo Levee Dist., here, to Rodgers, Denison & Brown, 62 South Front St., Memphis, Tenn., $0.178 per cu.yd. Noted May 7.

Miss., Vicksburg—Levee Work—Mississippi River Comn., 240,000 cu.yd. Black Bayou enlargement, to R. P. Harris, Lake Cormorant, $0.35 per cu.yd. 94,000 cu.yd. Ashbrook Neck Dike enlargement, to W. Owens Co., Jackson, $0.48; 120,000 cu.yd. Lake Levee and 250,000 cu.yd. Poverty Point, to Rodgers, Denison & Brown, 62 South Front St., Memphis, Tenn., $0.224 and $0.264 respectively.

Mich., Detroit — Dike — U. S. Engineer Office, Wash., D. C., repairing center dike, St. Clair Flats Canal, here, to Candler Dock & Dredge Co., 8145 Medina Ave., $13,407. Noted Apr. 30.

Minn., Duluth—Breakwater—U. S. Engineer Office, Wash., D. C., breakwater repair work, here, to T. L. Durocker Co., Detour, Mich., $10,325. Noted Apr. 23.

Mo., Fayette—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here, to C. Weitz Sons, Des Moines, Ia., $43,745. Noted May 28.

Colorado—Road—Bureau Pub. Rds., 301 Custom House Bldg., Denver, grading 5.1 mi. Cumbres Pass Natl. Forest Rd., Conejos Co., to W. A. Colt & Son, Las Animas, $34,394. Noted May 21.

Wash., Aberdeen — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., post office changes, here, to Acme Constr. Co., 6122 Arcade Bldg., Seattle, $3,460.

Calif., Oakland—Dredging—U. S. Engineer Office, War Dept., Wash., D. C., dredging in harbor, here, to Amer. Dredging Co., 255 California Ave., San Francisco, $354,614. Noted May 7.

Calif., San Luis Obispo — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office, here, to R. E. Campbell, 302 East Anaheim St., Long Beach, $48,842. Noted May 28.

FEDERAL POWER COMMISSION

Applications for Licenses and Permits

Applications

595—Southern Sierras Power Co., Riverside, Calif.—Wants license for 4 storage reservoirs on North and Middle Forks Bishop Creek, Inyo Co.

598—Southern Power & Light Co., Pine Bluff, Ark. — Wants preliminary permit water power development in Tennessee River, Lauderdale and Colbert Counties, Ala., in region of Waterloo and Riverton.

599 — Fern Gold Mining Co., Spokane, Wash.—Wants license for 2 small dams with power appurtenances in Archangel Creek, Alaska, 47 mi. from Anchorage.

600—Central Missouri Power & Water Co., 7th floor Interstate Bldg., Kansas City, Mo.—Wants preliminary permit for water power development in Gasconade River just below Project 450, Pulaski and Phelps Counties.

601—Utah Power & Light Co., Kearns Bldg., Salt Lake City, Utah—Wants license for Grace-Soda transmission line, in Caribou and Banneck Counties, Idaho.

602 — Roanoke — Staunton River Power Co., Roanoke, Va. — Wants preliminary permit for water power development in Roanoke River incl. dams at Lynville Ford, 2 mi. above Derrwood Ford, and 2 mi. above Anthonys Ford, in Roanoke, Bedford, Campbell, Franklin, and Pittsylvania Counties, Va.

604—Kentucky Hydro-Electric Co., Louisville, Ky.—Wants preliminary permit for power development in North Fork of Kentucky River, about 1 mi. upstream from Airdale, in Lee, Wolff, and Breathitt Counties.

605 — C. A. Harvey, Reedsport, Ore. — Wants license for 18 ft. dam with power appurtenances in tributary of Umpqua River, Douglas Co.

Unclassified

PROPOSED WORK

Playground — Cambridge, Mass. — City Council plans playground in Ward 3, vicinity of Bway. $25,000 or more. Engineer not selected.

Stadium — Lynn, Mass. — City, H. A. Mcphetres, chn. building com., City Hall, plans stadium. Engineer and architect not selected.

Swimming Pool—Providence, R. I.—See "Buildings—Educational, Religious."

Elimination of Grade Crossing—Buffalo, N. Y.—City made plans eliminating grade crossing at Clinton St. and Delaware, Lackawanna & Western R.R. $200,000. G. H. Norton, 1036 Ellicott Sq. Bldg., engr.

Wall—Shreveport, La.—City, c/o S. G. Wolfe, secy., soon takes bids rein.-con. wall along Dixie Overland Blvd., 225 yd. long, 4 to 10 ft. high. $25,000.

Hydro-Electric Development — Mason Wis.—W. N. Albertson & Co., 425 East Water St., Milwaukee, making preliminary plans 200 ft. concrete dam in White River, new concrete building to house equipment, incl. 1 additional water wheel, also approximately 50 mi. pole transmission line, etc. To exceed $25,000. Private plans.

Subway — Chariton, Ia. — City and Chicago, Burlington & Quincy R.R. 547 West Jackson Blvd., Chicago, A. W. Newton, ch. engr., plans subway to carry West Court Ave. under railroad track $50,000.

Gas Mains—Duluth, Minn.—See "Waterworks."

Tanks Amarillo, Tex.—Amarillo Refining Co., soon takes bids 55,000 gal. storage tanks, steel. $125,000. Private plans.

Land Development—Dallas, Tex.—M. B. Freeman, c/o Koch & Fowler, engrs., Central Bank Bldg., making plans developing 400 acres between Midway and Preston Rds. into residential district, incl. street paving, waterworks, sewers, gas and electric lights, etc. $75,000.

Diesel Engine Generator Unit—Cherokee, Okla.—Voted $35,000 bonds, new 400 hp. Diesel engine generator unit for city light plant. A. J. Titus, mayor.

BIDS DESIRED

Subway—New York, N. Y.—June 19, by Bd. Transportation, 49 Lafayette St., constructing Route 78, Sect. 2A from 101st to 111th Sts.

Sanitary Work—Wingdale, N. Y.—June 24, by State Hospital Comn., Albany, sanitary work in Buildings A and B, Harlem Valley State Hospital, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. June 11.

Unclassified (Continued)

Stadium—Phila., Pa.—June 12, by Day & Klauder, archts., Franklin Bank Bldg., rein.-con. double decking present stadium, 33rd and Spruce Sts., for University of Pennsylvania, 34th and Spruce Sts., P. M. Wilson, chn. grounds and buildings.

Overhead Crossing — Inverness, Fla. — June 17, at office State Rd. Dept., Tallahassee, 94 ft. creosoted timber overhead crossing over Sea Broad Air Line R.R., on Project 625, Rd. 5, Citrus Co., north of here. J. L. Cresap, highway engr.

Tainter Gates—Peshtigo, Wis.—Mead & Seastone, engrs., Journal Bldg., Madison, taking bids four 6 x 20 ft. steel tainter gates, turbine and generator for hydro-electric plant, here, for Wisconsin Pub. Serv. Co., 559 Marshall St., Milwaukee.

Causeway — Dallas, Tex. — June 19, by Bd. City Comrs., 7,200 ft. causeway across Garza Reservoir basin at Fish Trap Crossing of Trinity River, near Mingo Station, incl. 100 ft. steel span bridge with 18 ft. roadway, 135 lin.ft. creosoted pile trestle approaches, 5,945 lin.ft. earth embankment 10 ft. high, etc. Nagle & Thompson, 2003½ Main St., engrs. Noted May 21.

Grain Elevator—Houston, Tex.—June 17, by J. S. Metcalf Co., associated engrs., 608 South La Salle St., Chicago, Ill., 62 x 144 ft. grain elevator, 194 ft. high, rein.-con. and steel, with rein.-con. bins 17 ft. diam., 99 ft. high, conveyors, loading chutes, etc., at Turning Basin Dist., for Navigation Dist., c/o H. L. Washburn, aud. Houston Co. $1,000,000. J. A. Schiller, Court House, engr. Noted Jan. 22.

Pier—Burlington, Ont.—June 16, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, reconstructing 190 ft. of south pier, Burlington Channel, here. $100,000.

BIDS RECEIVED

Pier — Brooklyn, N. Y. — M. Cosgrove, comr. Dept. Docks, Pier A, Battery Pl., New York City, June 4, concrete pile platform, wooden sheet pile bunking, dredging and filling for Canarsie Pier, Jamaica Bay, here, from A. M. Hazell, Inc., 26 Cortlandt St., New York City, $487,269. Noted May 28.

Underground Cable—Brooklyn, N. Y.—R. E. Enright, police comr., Bookkeepers Office, 240 Centre St., June 4, installing underground cable, from J. Sugden Co., 100 5th Ave., New York City, $26,055. Noted June 4.

Cable—New York, N. Y.—E. E. Mills, comr. Plants & Structures, Municipal Bldg., June 4, lead covered cable along Varrick St., etc., from J. Sugden Co., 100 5th Ave., $14,748. Noted June 4.

Special Work — New York, N. Y. — Bd. Transportation, 49 Lafayette St., special work (Order 27) for Westchester Ave. Yard, from Ramapo Ajax Corp., 30 Church St., $30,986. Noted May 28.

Swimming Pool—Phila., Pa.—Pub. Wks., Bureau Recreation, 105 x 120 ft., rein.-con. pool, lockers and 35 x 90 ft. shelter pool, 16th and Ruffner Sts., from McCormick-Lenham Co., 2403 South Broad St. $35,985.

CONTRACTS AWARDED

Station Finish—New York, N. Y.—Bd. Transportation, 49 Lafayette St., station finish at 5th Ave. Sta., to Werner-Mitchell Co., 1 DeKalb Ave., Brooklyn, $118,500. Noted June 4.

Sea Wall—Gulfport, Miss.—Bd. Supervs. Harrison Co., 13 mi. concrete seawall along gulf coast, to Wood Bros. Constr. Co., Lincoln, Neb., $1,947,175. Noted June 4.

Swimming Pool — Cleveland, O. — See "Buildings—Commercial."

Curing Vats — Cudahy, Wis. — Cudahy Bros. Co., Packard Ave., concrete curing vats, to Siderits Constr. Co., 1591 2nd St., Milwaukee. Engrs. est. $40,000.

Land Development—Dallas, Tex.—S. A. Temple, 1301 Main St., developing 40 acres into high class residential district, incl. construction sidewalks, curbs and gutters, to E. H. Thompson, 1127 Kings Highway, $125,000.

Electric Transmission Line—Oklahoma—Oklahoma Gas & Electric Co., 112 North Bway., making surveys high voltage transmission line from Norman to Pauls Valley via Purcell. $45,000. Work will be done by day labor. Byllesby Eng. Co., 231 South Lansing St., Chicago, Ill., engrs.

Transmission Line — Oklahoma — J. D. Bonford, engr., Elk City, transmission line from Leedey to Elk City, to Inland Utilities Co., Elk City, for City of Leedey. $24,956. Noted May 7.

Gas Distribution System—Mangum, Okla.—City, natural gas distribution system, incl. 40,000 lin.ft. 4 in. steel pipe, to D. R. Williams, Mangum, $83,000. Engrs. est. $85,000. Noted May 7.

Street Lighting System—Oakland, Calif.—City Council, ornamental lighting system around Lake Merritt, to Central Electric Co., 179 Minna St., San Francisco, $64,500. Noted May 21.

Stadium and Baseball Diamond — Palo Alto, Calif. — Stanford University excavating and constructing additional 10,200 wooden seats, and constructing baseball diamond, to Palmer & McBryde, 503 Market St., San Francisco, $200,000. Noted Apr. 9.

Street Lighting System—Redondo Beach, Calif.—Ornamental street lighting system on portions of Opal, Beryl Sts., etc., to Underground Constr. Co., 517 South Bway., Pasadena, $74,775. Noted May 21.

Subway—Toronto, Ont.—B. Ripley, dist. engr. Canadian Pacific Ry., New Union Sta., subway under Canadian Pacific Ry. and Canadian Natl. Ry. tracks at Royce Ave. and Dundas St., for City, Canadian Pacific and Canadian Natl. Rys., New Union Sta., general contract to Dufferin Constr. Co., foot Bathurst St.; structural steel, to Canadian Bridge Co., Walkerville. Engrs. total est. $900,000.

Ornamental Light Standards—Vancouver, B. C. — City will install new single c.i. ornamental light standards in business section, by day labor. $190,000. C. H. Fletcher, city engr.

Grain Elevators—Regina, Sask.—Saskatchewan Pool Elevators Ltd., Union Bank Bldg., 15 grain elevators, to Harper Constr. Co., Winnipeg, Man., and 12 grain elevators, to Knudtson & Son, Regina. Noted Apr. 23.

Materials

BIDS DESIRED

Lime and Brick—Providence, R. I.—June 15, by Bd. Contract & Supply, 175 tons hydrated lime and 400,000 hard body brick.

Drain Tile—Detroit, Mich.—June 24, by E. Denniston, supt. House of Correction, 1441 Alfred St., 240,000 pieces 4 in., 8,000 pieces 8 in., 5,000 pieces 12 in., 15,000 pieces 6 in. and 1,500 pieces 10 in. drain tile, etc., f.o.b. siding at farm near Plymouth.

CONTRACTS AWARDED

Gravel, etc. — Grundy Center, Ia. — See "Streets and Roads."

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: June 29.

Water Works Improvements

Ronceverte, W. Va.

Sealed proposals will be received by the City of Ronceverte, W. Va., at the office of the City Clerk up to 4 P.M., June 29, and then publicly opened and read, for the following water works improvements:

Filter plant having a capacity of 500,000 gallons per 24 hours and consisting of concrete intake, 4-hour settling basin, two filter units, piping, and electric pump room, 36,000 gal. filtered water well, and brick superstructure.

Furnishing and installing filter piping, and equipment; changing present high pressure electric centrifugal pumps to new plant; piping pumps and intake, and electric wiring.

Furnishing two raw water centrifugal pumps, 350 g.p.m. each against a total head of 25 ft. direct connected to 5 hp. electric motors, 220 volts a.c. with starters.

Relining and enlarging with concrete the old concrete reservoir to give a capacity of 250,000 gallons.

All bids must be accompanied by a certified check for not less than five per cent of the amount of bid drawn to the order of City of Ronceverte, W. Va. Checks of unsuccessful bidders will be returned within two weeks after bids have been opened and read.

An approved contract bond in a sum equal to one-half the amount of the contract will be required of each contractor, except in the case of contract to furnish the raw water pumps by manufacturer.

The right is reserved to reject any or all bids or to award contracts separately for each of the four above named items or all to one contractor.

All bids must be addressed to the City Clerk, Ronceverte, W. Va., and sealed and marked plainly on outside of envelope "Bids on Water Works Improvements."

Specifications and plans may be seen at the office of the City Clerk on and after June 15 or may be obtained after that date from the engineer upon the receipt of $5.00 which is the estimated cost of making up and mailing the extra copies. No charge will be made for specifications and bidding form for furnishing pumps.

A. S. WOODHOUSE, City Clerk,
Ronceverte, W. Va.

H. K. BELL, Engineer,
418 Hernando Building,
Lexington, Ky.

Bids: June 22.

Bridges

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
Trenton, N. J.

Notice is hereby given that sealed bids will be received by the State Highway Commission of New Jersey for the following:

Construction of two bridges on Route No. 2, Section No. 8, between Bridgeboro and Pensauken Creek, Burlington County.

Bridge at M. P. 5.7 over Pompeston Creek, having a twenty-two foot (22') encased I beam span and concrete abutments, for a 40' clear roadway.

Bridge at M. P. 7.3 over Swedes Run, having a fifteen foot (15') concrete slab span on concrete abutments, for a 40' clear roadway.

Bids for the above will be received at the office of the State Highway Commission, 9th floor, Broad Street Bank Building, Trenton, New Jersey, on Monday, June 22, 1925, at eleven o'clock (11:00 a.m.) Standard Time, and will be opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on a deposit of Ten Dollars ($10) upon application to the State Highway Department, Room 901, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated in the 1924 specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and the name and section of route on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application. Bids not enclosed in special addressed envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of the said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a Statement of Equipment properly filled out.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

(Continued on following page)

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

(Continued from preceding page.)

Bids: July 2.

Bridge Re-construction

North Adams, Mass.

Notice is hereby given that sealed proposals will be received by the Commissioner of Public Works, in the City Hall, North Adams, Massachusetts, for the Reconstruction of the Holden Street Bridge, on the 2nd of July, 1925, at Two o'clock Advanced Standard Time, which is One o'clock Eastern Standard time.

The Bridge has an overall length of about 66 feet, and a width of 37 feet. It consists of a steel plate girder encased in reinforced concrete, and contains approximately:

145,000 pounds of Structural Steel;
24,000 pounds of Steel Rods;
372 Cubic Yards of Concrete;
1,044 Square Feet of Concrete Sidewalk;
260 Cubic Yards of Excavation.

Maps, plans and specifications may be seen and obtained, and proposal forms obtained on and after Tuesday, June 16, 1925, at the office of the Commissioner of Public Works, in the City of North Adams, Massachusetts; and at the office of the Consulting Engineer, G. Saxton Thompson, Room 7, 257 Broadway, Troy, New York, on the Deposit of Five Dollars ($5.00), which amount will be refunded upon the return of the plans and specifications in good condition.

The special attention of bidders is called to the "Information to Contractors" and "Information to Bidders" in the specifications.

Each proposal must be accompanied by cash, draft, or certified check, payable to the order of the Treasurer of the City of North Adams, for an amount equal to at least five (5) per cent of the amount of the proposal. In case this proposal shall be accepted by the Commissioner of Public Works, North Adams, Massachusetts, and the bidder shall fail to execute the contract and in all respects comply with all local ordinances or laws, then the Commissioner of Public Works may cash said check and deduct from the proceeds thereof or the said sum of money, an amount equivalent to the difference between the price of the bidder's proposal and the amount of the final contract; and upon further understanding that the said certified check or voucher will be returned upon the rejection of the bid.

The successful bidder will be required to execute a bond in an amount equal to the contract price with sufficient sureties, to be approved by the Commissioner of Public Works of the City of North Adams, and to execute the contract within ten (10) days after the award.

The City of North Adams reserves the right to reject any or all bids.

Subject to approval of Department of Highways.

EOLUS R. DOBLE,
Commissioner of Public Works.
North Adams, Massachusetts.
June 10, 1925.

Bids: July 6.

Subway Construction for Highway

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
Trenton, N. J.

Contractors experienced in rock and earth excavation, the construction of bridges, retaining walls, and other structures of steel or masonry and/or reinforced concrete with necessary foundations, etc., street paving of concrete and granite block and in the other classes of work more particularly described in the plans, specifications and other documents and papers hereinafter referred to, are invited to tender bids on a unit price basis for the construction of the second section of the Highway known as Route No. 1 Extension, said section being situated between the New Jersey Junction Railway and Oakland Ave., in the City of Jersey City, N. J., a length of about 1,600 feet.

The work is to be done under the direction of the State Highway Commission and the State Highway Engineer, and in accordance with the provisions of Chapter 14, Laws of 1917, Chapter 253, Laws of 1922, and all Laws amendatory thereof or supplemental thereto.

The work contemplated under this contract includes briefly the following:

The clearing of the site of the work, including the demolishing of buildings as may be required.

The excavation for and the construction of a depressed roadway, surface streets, pavements, etc.

The relocation and reconstruction of subsurface structures such as sewers, water pipes, etc., etc.

Relocation of street railway tracks, poles, wires, etc.

The maintenance of Hoboken Avenue and adjacent streets and the street railway tracks within the area affected by the work, in such a manner that traffic can be maintained over them in a satisfactory manner.

Attention is called to the relation of this proposed work to the tracks of the Erie R.R., and other adjacent properties, and the contractor's responsibility for protecting these from the effects of blasting and other damages, incident to the consruction.

The principal items of work to be done and the approximate quantities of some of them are:

Excavation, earth and rock, 78,000 cu.yds.
Concrete, 11,500 cu.yds.
Structural and other steel, 1,700 tons.
Asphalt Paving, 8,000 sq.yds.
Reconstruction of sub-surface structures.

The plans and specifications, form of proposal, contract and bond are on file at the office of the State Highway Commission of New Jersey, Trenton, New Jersey. Copies can be obtained at the office of the Commission at Trenton, or at the office of the Engineer at 921 Bergen Avenue, Jersey City. A deposit of Fifty Dollars ($50.00) will be required by the State Highway Commission of New Jersey for each set of plans and specifications furnished. The whole amount of such deposit will be refunded on the return of the plans and specifications in good condition to the State Highway Commission on or before July 6th, 1925.

Bids for this work will be received at the office of the State Highway Commission, 9th Floor, Broad Street Bank Building, Trenton, New Jersey, on Monday, July 6th, 1925, at eleven o'clock—11:00 a.m., Standard Time, (12 o'clock—noon, daylight saving time), and will be opened and read immediately thereafter.

Bids must be made on the form of proposal attached to the form of Contract, copy of which will be furnished by the Commission, and must be enclosed in sealed special addressed envelopes, which also will be furnished, bearing the name and address of the bidder and plainly marked "Proposal for the Construction of Section 2, Route No. 1 Extension," and a certified check made payable to the order of the Treasurer of the State of New Jersey, for the sum of Fifty Thousand ($50,000.00) must accompany each bid, said check to be returned to the unaccepted bidders on award of the contract, and to the accepted bidder on his signing the contract and furnishing the bond.

If the accepted bidder fails to execute and deliver the contract and bond within the time specified, the check shall become the absolute property of the State of New Jersey.

Each bidder must accompany his bid with a certificate from a surety company or surety companies duly authorized to do business in the State of New Jersey and satisfactory to the State Highway Commission of New Jersey, stating that if the bidder is awarded the contract such surety company or companies will provide the bidder with a guaranty bond or bonds for a sum equal to the total amount of the bid.

The State Highway Commission of New Jersey reserves the right to reject any or all bids.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

Bids: June 22.

Valves

BUREAU OF WATER
DEPARTMENT OF PUBLIC SAFETY
Lancaster, Pa.

SEALED proposals addressed to the Bureau of Water, Department of Public Safety, will be received at the Office of the City Controller, City Hall, Lancaster, Pa., until Twelve O'Clock Noon, Monday, June 22nd, 1925, for furnishing as follows:

VALVES

Two (2) 24-inch Altitude Valves, for use in connection with two Standpipes, one Standpipe being 105 feet high and the other 77 feet high, altitude valves to control height of water in the Standpipes.

Three (3) 24-inch Hand Operated, Back Geared Gate Valves. Two Bell Type with Graduated Scale showing degree of gate opening.

Three (3) 24-inch Electrically Operated Gate Valves, 110 Volt or 220 A.C. 60 Cycle Current. Two Bell Type with Graduated Scale showing degree of gate opening.

Three (3) 24-inch Hydraulically Operated Gate Valves. Two Bell Type. Pressure available is 25 pounds.

One (1) 24-inch Ninety (90°) Degree Elbow with Base. Two Bell for 125 lb. Pressure.

The Bureau of Water Reserves the right to reject any and all bids.

SIMON SHISSLER,
City Controller.

Bids: June 29.

Construction, Heating, etc.

MATTEAWAN STATE HOSPITAL
Beacon, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work, Hospital Building and Kitchen and Dining Room Building (New Group) and Addition to Main Group, Matteawan State Hospital, Beacon, N. Y., will be received by Hon. James L. Long, Superintendent of Prisons, Capitol, Albany, N. Y., until 2 o'clock, P.M. (Eastern Standard Time), Monday, June 29th, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to 5% of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specifications Nos. 4549, 4550, 4551 and 4552. The right is reserved to reject any or all bids. Drawings and specifications may be examined at Matteawan State Hospital, Beacon, N. Y.; at the New York Office of the Department of Architecture, 18th floor, Flatiron Building, Broadway and 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained by persons or firms engaged in the line of work required at the discretion of the Architect from the Department of Architecture, Capitol, Albany, N. Y., upon a deposit in the sum of $25.00 of money, or check made payable to the State of New York for each set of Construction drawings and specifications, and in the amount of $10.00 for each set of Heating, Sanitary or Electric drawings and specifications, which deposit will be returned if the drawings and specifications are received in good condition by the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated: June 1, 1925.

CONSTRUCTION NEWS

Engineering News-Record, June 18, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Extension of boulevard system, San Francisco, Calif., City and San Francisco Co. plans bond election for extending boulevard system, $10,000,000.

Bridge, Louisville, Ky., State Hy. Dept. plans steel truss bridge across Ohio River, $5,000,000.

Bank and office, New York, N. Y., M. M. Natanson having plans prepared for 30-story brick, steel and stone, $4,000,000.

Office, New York, N. Y., John Gold Realty Corp. having plans prepared for 24 story brick, steel and stone, $4,000,000.

Office, Philadelphia, Pa., Pennsylvania R.R. having plans prepared, $3,300,000.

Dredging, etc., Stockton, Calif., voted $3,000,000 bonds for project.

Hotel, New York, N. Y., A. Keckscher having plans prepared, $3,000,000.

Hotel, Portland, Ore., Portland Hotel Co. plans building, $2,000,000.

Schools, Fresno, Calif., plans $1,500,000 bonds for construction and improvement.

Loft, New York, N. Y., Five Hundred Nineteen 8th Ave. Corp. having plans prepared, $1,500,000.

Apartment, New York, N. Y., J. M. Felson engr., preparing plans, $1,500,000.

Hotel, Tampa, Florida, Tampa Commercial Construction Co. having plans prepared, $1,100,000.

Office, Denver, Colo., Continental Oil Co. having plans prepared, $1,000,000.

Roads, Decatur, Tex., Wise Co. plan bond election for road improvement, $1,000,000.

Hotel, Boston, Mass., J. R. Whipple Corp. planning building, $1,000,000.

Office, Tampa, Fla., J. A. Crenshaw plans building, $1,000,000.

Recreation Pier, St. Petersburg, Fla., voted $1,000,000 bonds.

Bids Wanted On Big Jobs

Bridge work, Pittsburgh, Pa., Allegheny Co., June 10, bridge masonry and approach fill.

Office, Houston, Tex., A. C. Bossom, Archt., New York City, June 15, $1,250,000.

Road Work, Dyersburg, Tenn., Dyer Co., June 29, $1,000,000.

Large Contracts Let During Week

Office, Hartford, Conn., Ferrigno & Perrone will build 6 story building, $2,000,000.

Shops, Jackson, Tenn., Mobile & Ohio R.R. to Dwight P. Robinson & Co. of New York City, $1,250,000.

Bank and Office, Newark, N. J., Federal Trust Co. to Pub. Service Co., $1,250,000.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. J., Hawthorne (Paterson P. O.) — Boro takes bids about July 15, extending mains in several streets. H. J. Harder, 129 Market St., Paterson, engr.

Pa., Cramer—Findley Run Water Supply Co., Seward, plans dam, 62 ft. high, 124,000,000 gal. capacity, at Trout Run near here. $50,000. J. R. Crissey, Johnstown, engr.

Va., Rural Retreat—Voted $42,000 bonds centrifugal pumps for pumping water from Cedar Springs to reservoir, 200,000 gal. concrete reservoir, 6 and 8 in. c.i. pipe, etc. A. H. Poret, mayor.

Fla., Holly Hill—Election July 1, $70,000 bonds for waterworks. N. A. Hotard, New Smyrna, engr.

Fla., Wauchula — Voted $75,000 bonds, extending waterworks. W. D. Carlton, mayor.

O., Columbus—See "Streets and Roads."

O., Tiltonsville—Plans water mains and sewers in various streets. $175,000. H. C. Althar, Bellaire, engr.

Mich., Bloomfield Hills (Birmingham P. O.) — Bloomfield-Maple Road Corp. plans approximately 24,000 lin.ft. 6- to 10-in. c.i. watermains and 20,000 lin.ft. 8- to 18-in. vitr. sewers in various streets. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Mich., Springwells—Plans c.i. pipe line extensions to serve territory between Miller and Schaefer Rds., Warren and Michigan Aves. $70,000. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Wis., Fond du Lac—Bd. Pub. Wks., J. F. Hohensee, secy., rejected bids Apr. 2, superstructure 1 story, 44 x 160 ft., brick and concrete pumping station addition. $20,000. Will readvertise. J. E. Hennen, Main St., engr. Noted Apr. 23.

Kan., Effingham — Making preliminary plans waterworks and sewers, etc., in various streets. To exceed $15,000. C. A. Haskins, 822 Finance Bldg., Kansas City, Mo., engr.

Kan., Wakefield — Plans waterworks improvements, incl. well, pump house, pumping equipment, etc. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., consult. engrs.

Tex., Comanche—Voted $50,000 additional bonds for waterworks. $70,000 bonds previously voted. J. B. Hawley, 403 Cotton Exch. Bldg., Ft. Worth, engr

Tex., Lubbock—Election July 2, $150,000 bonds for waterworks extensions, incl. mains, pumping plant, equipment, etc. J. B. Germany, city secy.

Tex., Port Arthur—Election soon $200,000 bonds for filtration plant, 30 mi. pipes for pumping water from Neches River, etc. Gulf and Texas Companies will assist city in project. J. O. Herpin, city engr.

Okla., Alex—Election June 24, $27,000 bonds, new waterworks, incl. well, pump, tower, mains, valves, hydrants, etc. J. C. Milliken, Chickasha, engr.

Okla., Bethany — Making preliminary plans new waterworks. $40,000. McIntosh Co., 1st Natl. Bank Bldg., Oklahoma City, engrs.

Okla., Bristow — Election soon $45,000 bonds, for new deep well, pumps, pumping equipment, etc. Address Mayor. Noted May 7.

Okla., Elk City—Election June 16, $336,000 bonds, new water supply reservoir, dam, pipe line, filter plant, etc. Benham Eng. Co., Gumbell Bldg., Kansas City, Mo., engrs. Noted Apr. 9.

Okla., Guthrie—Making preliminary plans 200 hp. Diesel oil engine generator unit in waterworks plant. $30,000. W. I. Mathis, 411 East Oklahoma St., Guthrie, engr.

Okla., Muskogee — City Comrs. retained Burns & McDonnell, consult. engrs., Interstate Bldg., Kansas City, Mo., to submit report for filtration plant. Election soon $100,000 bonds for same.

Okla., Ponca City—Making preliminary plans new 2 m.g. concrete storage reservoir. $25,000. J. M. Crowe, Ponca City, engr.

Okla., Wynne Wood—Election June 17, $35,000 bonds for 20,000 ft. 4 in. c.i. pipe, etc., from Artesian well to natatorium, and rebuilding pool and bath house. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Azusa—Defeated $105,000 bonds for waterworks improvements. Noted Apr. 9.

Calif., Ventura—Voted $35,000 bonds for waterworks.

BIDS DESIRED

Mass., Boston—June 29, by Dept. Pub. Wks., laying about 6,300 lin.ft. c.i. pipe, and furnishing and laying about 200 lin.ft. 48 in. steel pipe in Commonwealth Ave. between Massachusetts Ave. and in Public Garden and Boston Common, City Proper. $80,000 bonds. J. A. Rourke, comr.

N. Y., St. George—June 19, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Jones and Whitewood Places, Carlton Blvd., Arthur Kill, Edinboro, London and Prince Bay Rds., Bard, Beach, Bement, Dale, Dewey, Harvest, Homestead, Isabella, Macfarland, Morrison, Northfield, Raleigh, Warwick and Winant Aves., Green, Maple, Seneca, 5th, 6th, and 9th Sts., here.

N. Y., New York—June 24, by N. J. Hayes, comr. Water Supply Gas & Electricity, Municipal Bldg., mains in Pelham Parkway South, East 163rd and 172nd Sts., Adee, Bayview, Blondell, Bouck, Cornell, Cruger, Harrington, Harrod, Hering, Lydig, Mace, Morrison, Philips, Underhill, Whitlock, Wilcox and Yates Aves.

Pa., Lancaster—June 22, by Bureau of Water, Dept. Pub. Safety, at office of S. Shissler, city controller, City Hall, two 24 in. altitude valves, three 24 in. hand operated, back geared gate valves, three 24 in. electrically operated gate valves, three 24 in. hydraulically operated gate valves, one 24 in. 90 degree elbow with base, etc.

N. C., Burnsville — June 26 (extended date), by M. A. Bailey, mayor, and Bd. Aldermen, at Court House, 6 mi. 6 in. and ½ mi. 8 in. c.i. mains, 500,000 gal. filtration plant, etc. W. H. Booker, Charlotte, engr.; adv. E. N.-R. June 18. Noted May 28.

O., Aurora—See "Sewers."

O., Cleveland—June 24, by Comrs. Cuyahoga Co., mains in Snow Rd., Impvt. 65-B. $25,000. W. Williams, Court House, engr.

O., Maple Heights (Bedford P. O.)—See "Sewers."

Ill., Altamont—June 22, by City Clerk, concrete case strainer well 40 ft. deep and 16 ft. inside diam., strainer section not less than 25 ft. and upper 15 ft. incased in water tight concrete. W. A. Fuller Co., 1917 Railway Exch. Bldg., St. Louis, Mo., engrs.

Wis., Iron Ridge — June 25, by J. C. Schulz, village clk., 900 lin.ft. 4 and 6 in. centrifugal c.i. pipe.

Minn., Minneapolis—June 29, by F. S. Gram, city purch. agt., 4,000 water meters, 50,000 lin.ft. 6 in., 10,000 ft. 8 in., 10,000 ft. 12 in. and 5,000 ft. 16 in. c.i. pipe.

Ont., Waterford—June 22, by D. A. Hill, village clk., complete new waterworks. $50,-

Waterworks (Continued)

000. Fairchild Bros., Bank of Hamilton Chambers, Brantford, engrs.

Ont., Welland—June 25, by C. R. Hagen, chn. Water Comrs., water filtration plant, incl. annex to pump house, etc. $300,000. W. Chipman, Mail Bldg., engr.

BIDS RECEIVED

New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, June 9, alterations to structures along 72 in. steel pipe line necessitated by construction of Conduit Blvd., in Queens and Nassau Counties, from Dooley Stapleton Corp., 257 Delphi Pl., Brooklyn, $37,661. Noted June 4.

O., Cincinnati—Hamilton Co., 22,760 ft. 6 and 8 in. c.i. mains in Water Supply Line 12, Dist. 4, School Sect. Rd., Harrison and Race Aves., and 21,494 ft. 6 and 8 in. mains in Water Supply Line 11, Dist. 4 and 5, Muddy Creek, Anderson Ferry and Foley Rds., from W. Hennigan, 7011 Montgomery Park, Norwood, $45,109 and $44,675 respectively, engrs. est. $50,757 and $51,446 respectively; 41,384 ft. 6 and 8 in. mains in Water Supply Line 19, Dist. 1, Osceola Park, Maderia Heights and Drake Rd., from J. Dempsey, 5310 Carthage Ave., Norwood, $76,237, engrs. est. $86,678. Noted June 4.

Wash., Seattle—Reconstructing mains in Federal Ave., 2,583 ft. 42 in., $\frac{7}{16}$ in. thick, and 3,210 ft. 42 in. $\frac{1}{4}$ in. thick lock bar, also 1,955 ft. 20 in. c.i. pipe, from J. L. Smith, Pioneer Bldg., $91,994.

CONTRACTS AWARDED

Mass., Lawrence—Morris Knowles, Inc., Westinghouse Bldg., Pittsburgh, Pa., sand filter, and Water St. Pumping Station, to P. J. Holland, 24 Ames St. Engrs. est. $275,000. Noted Apr. 16.

Mass., Watertown — Hood Rubber Co., high pressure water system, incl. pump houses, to Aberthaw Co., 27 School St., Boston, $30,000.

Pa., McDonald—West Penn Water Co., new pumping station, pumps, 3 mi. 12 in. force mains, etc., in various streets, to Gannett, Seelye & Flemming Engrs., Inc., 1 North Market Sq., Harrisburg.

Md., Towson — Comrs. Baltimore Co., 300,000 gal. elevated water tank, steel, to Chicago Bridge & Iron Co., 30 Church St., New York City, $19,250. Noted May 14.

N. C., Newton—L. H. Phillips, mayor, and Bd. Aldermen, water and sewerage extension, to Elliott Building Co., Hickory. Noted May 21.

S. C., Spartanburg—City, machinery in waterworks pumping station, on Pacolet River, to Burford, Hall & Smith, Citizens & Southern Bank Bldg., Atlanta, Ga., $70,000.

Mich., Detroit—Water Bd. will lay 340 ft. 16 in. c.i. mains in Eight Mile Rd., 2,710 ft. 8 in. in Mendota Ave., 710 ft. 8 in. in Coon Ave., 1,400 ft. 8 in. and 1,265 ft. 6 in. mains in Sherwood Ave., 1,520 ft. 8 in. in Violetlawn Ave., 2,560 ft. 6 in. in Carrie Ave., 780 ft. 8 in. in Wyoming Ave., 1,230 ft. 6 in. in Gabel Ave., 1,520 ft. 6 in. in Maplelawn Ave., 1,515 ft. 8 in. in Beechdale Ave. and 1,510 ft. 6 in. in Cedarlawn Ave., by day labor. G. H. Fenkell, genl. mgr. Water Bd., East Jefferson Ave.

Ill., Quincy — Waterworks Comn., 314 Main St., rein.-con. high reservoir, concrete covered, to Priester Constr. Co., Kahl Bldg., Davenport, Ia., $174,578. Noted June 11.

Ill., White Hall — City, raising present dam and spillway, diversion dam and spillway, raw water pump house, concrete coagulation basin, brick filter building, filter and pumping equipment, to C. M. Hanes, Jerseyville, $54,390. Engrs. est. $58,000. Noted Apr. 30.

Wis., Sturtevant — Village Clerk, 12,000 lin.ft. 6 in. and 3,000 lin.ft. 8 in. c.i. mains in various streets, to G. W. Mulholland, 2025 Oxford St., Rockford, Ill., at $0.39 and $0.44 per ft. respectively. Noted May 14.

Wash., Seattle—Bd. Pub. Wks., to Interstate Constr. Co., Thompson Bldg., mains in 46th Ave. S., 985 ft. 12 in. c.i. pipe at $3 per ft., 2,630 ft. 8 in. Class "B" pipe $1.74, and 5,940 ft. 8 in. Class "C" c.i. pipe $1.80, total $25,902. Noted June 4.

Ont., Peterboro — S. A. Armstrong, city clk., City Hall, Simcoe St. pipe line across Otonabee River, pumping station, grit chambers, aeration tanks, settling tanks, etc., to F. R. Wilford Co., Lindsay, $78,000; 3 sewage pumping units, to Smart, Turner Machine Co., $11,000; 3 complete compressor units, to Francis Hankin Co., 386 King St. W., Toronto, $18,753; air distribution, piping, etc., to W. R. Turner, Peterboro, $14,576. Noted Apr. 23.

Sewers

PROPOSED WORK

Mass., Boston — Plans 10 and 12 in. earthern pipe catch basins, etc., in River and Monponset Sts., Hyde Park; Verrill St. in Dorchester, and Sunset Hill Rd. and Center St. in West Roxbury. $25,000. J. A. Rourke, comr.

R. I., Providence—Plans sewerage works in Laurel Court, Radcliffe, Mooreland, Northup and Manton Aves. $25,000. J. B. Ballard, chn. com. on sewers.

R. I., Providence—Plans sewerage works in Alicant, Fosdyke, Bowdoin, Job and Quincy Sts. $25,000. J. B. Ballard, chn. Com. on Sewers.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., rejected bids June 4, sewers in Pelham Parkway North and South. Noted June 11.

Fla., Wauchula — Voted $75,000 bonds, extending sewers in various streets. W. D. Carlton, mayor.

Ala., Dothan—Voted $75,000 bonds for sewers. J. R. W. Liesenby, city clk.

Miss., Belzoni — Making plans and soon takes bids additions to sanitary sewerage system. $25,000. D. M. Forester, city engr.

O., Canton — Plans 1,850 ft. sewers in Patton Ditch starting in Wertz Ave. south in 12th St. N. W., and north on Wertz Ave. to Abbott Pl. $25,000. W. E. Sarver, Canton, engr.

O., Columbus—See "Streets and Roads."

O., Columbus—Making plans 1,428 ft. 6 and 10 in. sewer, etc. in Parsons Ave., $6,406; 15,318 ft. 8- to 2-in. sewers, etc. in Olive St., $33,436; 5,760 ft. 6 and 8 in. sewer, etc. in Fairview Ave., $11,737; 730 ft. 8 in. sewer, etc. in Easement St., $1,906; and 4,930 ft. 6 and 8 in. sewer, etc. in alley east Dresden Ave., $11,088. R. H. Simpson, city engr.

O., South Charleston — Making plans sewage plant and sewer lines in various streets. $100,000. G. B. Gascoigne, Leader-News Bldg., Cleveland, engr.

Mich., Bloomfield Hills (Birmingham P. O.)—See "Waterworks."

Mich., Detroit—Plans 6,393 ft. 12- to 24-in. crock sewer in Lateral 4354, 4,376 ft. 12- to 24-in. in Lateral 4358, 750 ft. 12- to 15-in. in Lateral 4363, 2,919 ft. 12- to 20-in. in Lateral 4364, 864 ft. 12- to 15-in. in Lateral 4366, 1,425 ft. 12- to 18-in. in Lateral 4368, 1,008 ft. 12- to 15-in. in Lateral 4371, 875 ft. 12- to 15-in. in Lateral 4372, 551 ft. 18 in. in Lateral 4373, 1,255 ft. 12- to 20-in. in Lateral 4376, 1,479 ft. 12- to 18-in. in Lateral 4378, 1,868 ft. 12- to 15-in. in Lateral 4380, 2,045 ft. 10- to 20-in. in Lateral 4382. P. A. Fellows, city engr.

Mo., Clayton—Making preliminary plans 8, 10 and 12 in. sanitary sewers, etc., in Sewer Dist. 6, Overland Park Sect., $148,369; and 6, 8, 10 and 12 in. sanitary sewers, etc., in Sewer Dist. 7, St. Louis Co. $166,233. L. C. Dziatzko, Empire Bldg., Webster Groves, engr.

Mo., Concordia—Defeated $50,000 bonds, sanitary sewerage system. E. T. Archer & Co., 609 New England Natl. Bank Bldg., Kansas City, engrs. Noted May 28.

Mo., Rolla — Making surveys extending sanitary sewers in various streets. Alexander Eng. Co., 517 Woodruff Bldg., Springfield, engrs.

Mo., West Plains — Defeated $50,000 bonds, disposal plant and sewers, in various streets. Russell & Axon, 412 McDaniels Bldg., Springfield, engrs. Noted May 7.

Tex., Austin — Postponed indefinitely $75,000 bond election sewers various streets. Noted May 21.

Tex., Lubbock—Election July 2, $150,000 bonds, sanitary sewers in various streets. J. R. Germany, city secy. Engineer not announced.

Calif., Ventura — Voted $130,000 bonds for extending sewers in various streets. Noted Apr. 30.

Ont., Ansonville—Making plans 3 mi. 8 in. vitr. tile sewers in various streets. $25,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Brantford—Plans 12,000 ft. 8 in. vitr. tile storm and sanitary sewers in various streets. $50,000. F. P. Adams, city engr.

Ont., Chippawa—Plans 20,000 to 25,000 ft. 8 in. vitr. clay sewers in various streets. $55,000. Engineer not selected.

Ont., Guelph — Plans storm sewers in various streets, $5,390, sanitary sewers in various streets, $26,000. H. S. Nicklin, city engr.

Ont., Kingsville—Plans sewer in Queen St. $30,000. W. G. Long, town clk.

Ont., Markdale—Plans sewerage system. $40,000. R. McEachnie, chn. com.

Ont., Oshawa — Plans rein.-con. sewage disposal plant, settling tanks, or activated sludge type. $50,000. W. C. Smith, city engr.

Ont., Toronto—East York Twp., Sammon Ave. Municipal Yard, plans 755 ft. 12 in. sewer in Queensdale Ave. and 275 ft. 12 in. in Linsmore Crescent $11,148; 245 ft. 12 in. sewer in Poulton Ave. $2,820; 348 ft. 12 in. and 335 ft. 15 in. sewer in Willey Ave., $7,704; 670 ft. 12 in., 535 ft. 15 in. and 800 ft. 18 in. sewer in Meagher Ave. $31,936. G. R. Jack, twp. engr.

Ont., Toronto—York Twp., 40 Jarvis St., plans storm and sanitary sewers in Oliver Ave. $9,500, Arlington Ave. $14,700, Claxton Blvd. $7,730, Heathdale Rd. and Humewood Dr. $18,000. Work involves 15,000 ft. 8 in. vitr. tile and concrete pipe. F. B. Goedike, twp. engr.

Ont., Windsor—Plans 9,000 ft. 8 in. vitr. tile sewer in Tecumseh Rd., Pelissier, Church and York Sts., Victoria, Dougal and Bruce Aves. $37,200. M. E. Brian, city engr.

BIDS DESIRED

Mass., Boston—June 19, by Dept. Pub. Wks., sewerage works in Radnor and Kirkwood Rds., Brighton. $25,000. J. A. Rourke, Comr.

N. Y., Brooklyn — June 24, by J. A. Guider, boro pres., Boro Hall, sewers in Colonial Rd., New York Ave., 65th, 85th and 71st Sts.

N. Y., St. George — June 30, by J. A. Lynch, pres. Richmond Boro, Boro Hall, 2 fine mechanical screens, incl. drive motors in sewage treatment plant, on site 560 ft. west of Ocean Ave. near Oakwood Beach.

N. J., Butler—June 29, by Boro Council, sewers in Bartholdi Ave. J. F. Bormuth, boro clk.; adv. E. N.-R. June 18.

Pa., Lansdale — July 6, by Council of Boro of Lansdale, 3,800 ft. vitr. sewer, rein.-con. culvert and sewage treatment plant. N. C. B. Kriebel, secy.; adv. E. N.-R. June 18.

Pa., Phila.—June 23, by Dept. Pub. Wks., Bureau of Engineering, main sewer in Stakley St.; Winghocking sewer in Howard St. from Master to Front Sts.; South Phila. Impvt., inclu. Oregon Ave. sewer from Weccacal Ave. to Front St.; branch sewers in Oxford Ave., Alresford, Colorado, Darien, Edgemont and Gaul Sts.

N. C., Chapel Hill—June 24, by W. S. Robertson, mayor, and Bd. Aldermen, intercepting outfall sanitary sewer and disposal plant, etc. W. C. Olsen, Masonic Temple Bldg., Raleigh, consult. engr.

N. C., Marion—June 23, by Bd. Aldermen, sewage disposal plant. H. H. Tate, Marion, mayor.

O., Aurora — W. O'Rourke Co., engrs., Guarantee Title Bldg., Cleveland, taking bids sewer and watermains in various streets, here, for A. B. Smythe Co., Smythe Bldg., Cleveland.

O., Cleveland—June 24, by Comrs. Cuyahoga, sewers in S. O. M. Center and Bonnyview Rds., Impvt. 301, Sect. A. $75,000. Former contract rescinded. W. Williams, Court House, engr. Noted May 28.

O., Cleveland—Cuyahoga Co. taking bids 4,500 ft. 8- to 27-in. vitr. clay sewer in Sheraton and Forestwood Drives, Impvt. 31. To exceed $25,000. W. Williams, Court House, engr.

O., Maple Heights (Bedford P. O.)—Taking bids sewer and watermains in various streets. To exceed $25,000. C. W. Courtney, 1770 East 11th St., Cleveland, engr.

Ia., Stanton—See "Streets and Roads."

Calif., San Pablo—Directors San Pablo Sanitary Dist., taking bids 3 mi. 6 in. vitr. sewers in Glenn, Park, Casino Aves., etc. R. L. Calfee, 221 South 22nd St., Richmond, engr. Noted May 28.

BIDS RECEIVED

Md., Baltimore—Bd. Awards, 30,300 ft. 8 in. vitr. sewer, 11,900 lin.ft. 5 and 6 in. house connections, etc, in Sewer Dist. H-6-2, Contr. 218, from N. Martell, 417 South Eden St., $102,951. Noted June 4.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Stanhy Constr. Co., Steinway Ave., sewers in Borden Ave. $4,284; to C. Pettracca, 737 Kathleen Court, Brooklyn, sewers in Cooper Ave. $590, Fisk Ave. $675, Market St. $555; to H. J. Mullin, Contg. Co., Jamaica Ave. and 144th St., Jamaica, $16,838. Noted June 4.

Sewers (Continued)

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Hull Ave. West 176th St., to F. Gabrielle, 1129 8th Ave., $3,231 and $12,551 respectively; sewer in Zulette Ave., to Fiorello & Koch, $2,196. Noted June 11.

N. J., South Amboy — Common Council, 1,500 ft. concrete sewer pipe for sewer in John St., to Lock Joint Pipe Co., 165 Bway., New York City, $12,566.

Pa., Phila. — Dept. Pub. Wks., Bureau Engineering, main sewers in Bristol St., to P. and E. J. Ellis, 4th and Wyoming Sts. $135,986, in Church St., and branch sewer in Overbrook St., to W. H. Garson, 5033 Brown St., $22,900 and $10,857 respectively; main sewer in Robbins St., to R. P. Ryan, 601 Lincoln Bldg., $92,005; main sewer in 34th and Spruce Sts., South Phila. Impvt. sewers in Packer and Broad Sts., and branch sewer in Cemetery Ave., to J. J. McHugh, 1617 Race St., $37,151, $125,967 and $2,642 respectively; South Phila. Impvt. sewers through East League, Park and Private Properties, also Oregon Ave., to Pennsylvania Eng. & Constr. Co., Real Estate Trust Bldg., $28,490 and $39,648 respectively; sewage treatment in Oak Lane Intercepting sewer, to Vare Constr. Co., 1120 Race St., $84,549; branch sewer in Hartel and 63rd Sts., to A. D. Sandro & Son, 3906 North 5th St. $3,960 and $8,400 respectively, in Lycoming St., to McCool Constr. Co., 5033 Duffield St. $3,742, in Nedro St., to E. F. Bennis, 825 East Washington Lane, $12,699; laboratory equipment, to A. H. Thomas Co., 230 South 7th St., $5,224. Grand total $614,220. Noted June 4.

Pa., Pittsburgh — City, 6,418 ft. 42 in. rein.-con. and 302 ft. 15 in. sewer in Saw Mill Run Drainage Basin, from Warrington to Woodstock Aves., Contr. 4, to R. D. Thomas, 333 Bouquet St., $121,000.

Md., Baltimore — Bd. Awards storm sewers in Dist. G. 11, 46-B, P-8, and P-4, Storm Water Contr. 83, incl. 500 lin.ft. 9 ft. 2 in. x 5 ft. and 2,160 lin.ft. 6 ft. x 3 ft. 6 in. rein.-con. box drain, 5,875 lin.ft. 24- to 42-in. concrete pipe, 4,858 lin.ft. vitr. pipe drain and inlet connections, to P. Marocco, 638 South Linwood Ave., $137,238. Noted June 11.

N. C., Newton—See "Waterworks."

Fla., Tampa—City Comn., City Hall, to Bryan & Co., Phelps St., Jacksonville, sanitary sewers in Sect. 11, Seminole Heights, $59,040, Sect. 13 $39,081, Sects. 14 and 17 $25,340, to Erler Corp. Tampa, Sect. 12 $69,509. Grand total $192,970. Noted Apr. 8.

O., Cleveland—Bd. Park Comrs. Metropolitan Park Dist., 1,500 ft., 4 x 11½ ft. concrete conduit in Big Creek Parkway, to Gantose Constr. Co., 4816 Brookpark Rd., $39,415. Noted May 21.

Mich., Detroit—Dept. Pub. Wks., to W. Blanck Co., 40 Seven Mile Rd. E., Lateral Sewer 4354 $13,400; to M. Di Ponio, 3608 Riopelle St., Lateral 4358 $11,900, Lateral 4364 $4,879; to Waterway Constr. Co., 400 Penobscot Bldg., Lateral 4363 $1,198, Lateral 4366 $1,493, Lateral 4376 $2,559, Lateral 4378 $2,854, Lateral 4382 $5,695; to Hoffman & Odien, Detroit, Lateral 4368 $11,000; to H. Ponterelli, 3536 St. Aubin Ave. Lateral 4371 $4,000; to C. Brakke, 1558 Sycamore Ave. Lateral 4373 $3,375; to A. Rossi, 5307 Pennsylvania Ave. Storm Sewer 4380 $3,700.

Mich., Detroit—See "Streets and Roads."

Mich., Springwells — To T. D. Nolan, 11341 Woodward Ave., Detroit, 8,349 ft. 10 in. and 429 ft. 12 in. vitr. tile sewer in Sewer 44 $17,548, 721 ft. 6 in. and 423 ft. 12 in. vitr. tile sewer in Sewer 57 $840; to Coolsaet Bros., 12734 Michigan Ave., Detroit, 1,533 ft. 12 in., 310 ft. 18 in., 2,332 ft. 21 in., 2,980 ft. 24 in., 2,022 ft. 27 in. and 1,005 ft. 30 in. vitr. tile sewer in Sewer 58, $38,398.

Ill., Batavia—City, two disposal plants, 1 for North and other for South Dists., to Kuehn Bros., Aurora, $22,560. Engrs. est. $22,687. Noted May 21.

Ill., Bloomington — See "Excavation, Drainage, Irrigation, Levees."

Ill., De Pue — Approximately 5 mi. sanitary sewers in various streets, and disposal plant, to P. Di Paolo, 1074 West Taylor St., Chicago, $39,756.

Ill., Springfield—Sanitary Dist., Sect. A of sanitary intercepting sewer project, to Hanson & Willadsen Co., Omaha, Neb., $272,242. Noted June 4.

Wis., Lake (Oakwood P. O.)—W. Barbeau, town clk., to G. W. Mulholland, 2025 Oxford St., Rockford, Ill., sanitary sewers in various streets, 338.25 lin.ft. 10-in. clay pipe at $1.75 per lin.ft., 31,689.8 lin.ft. 8 in. clay pipe $1.85, 15 lin.ft. 10 in. c.i. pipe $6, etc. Noted June 4.

Minn., Isanti — G. H. Chalmers, city clk., sanitary sewers in various streets, Schedule 1, 1,010 ft. 8 in., 620 ft. 10 in. and 5,150 ft. 12 in. pipe, 9 standard and 13 special manholes, etc., to K. C. Richardson, Anoka and W. Ravenholdt, Isanti, $8,700; Schedule 2 rejected. Noted May 14.

Minn., St. Paul—H. W. Austin, city clk., constructing Belt Line, Phalen and Hazel Park sewers, Contr. K, to O'Neil & Preston, 608 Exch. Bank Bldg., $132,000. Noted June 11.

Minn., Winona—G. W. Hoffman, city clk., 11,459 ft. 8- to 12-in. vitr. clay and 751 ft. 12 in. c.i. sewer pipe. Sewer Dist. 5, to C. L. Jensen, Winona, $19,737; and 7,208 ft. 12 to 42-in. concrete storm sewers, etc. in Main, Harriet and Kansas Sts., to J. L. Hegard, Winona, $32,484. Noted May 7 and 14 respectively.

Mo., Cape Girardeau—Complete sanitary sewerage system in Normal Sewer Dist., to W. P. George Co., Pine Bluff, Ark., $43,302.

Tex., Crowell — City, E. Kimsey, secy., sewer improvements, incl. mains, laterals, and disposal plant, to Jordan Constr. Co., Plainview, approximately $50,000.

Tex., Edinburg — City, 6 mi. sewers lines, laterals, etc., to W. L. Pearson & Co., Edinburg, approximately $70,000.

Okla., Okemah — Sewage disposal plant, incl. Imhoff tank, 1,200 ft. 15 in. vitr. clay outfall sewers, etc. in various streets, to W. B. Carter, Tulsa, $28,151. Engrs. est. $30,000.

Okla., Oklahoma City—Sanitary sewers in Mila Pl. addition, to J. Tibey & Son, 1109 West 7th St., $19,584; and in Putnam Heights addition, to Municipal Excavator Co., 200 East Grand Ave., $5,688; asphalt surfacing 1,600 sq.yd. Pennsylvania Ave., to Western Paving Co., Tradesmens Natl. Bank Bldg., at $8,074.

Calif., Los Angeles—Sewers in 10th Ave. between Mont Clair and Jefferson Sts., to G. W. Kemper, P. O. Box 126, Alhambra, $62,500.

Ont., Toronto — Constructing 1,500 ft. brick trunk sewer in Dundas St., to W. R. Worthington Constr. Co., 57 Lascelles Blvd., $31,340. Engrs. est. $35,000.

Ont., Toronto—East York Twp., Sammon Ave. Municipal Yard, to Murphy Contg. Co., 8 Wychwood Park, sewers in Donlands Ave. $2,947, Paulton Ave. $1,867; to G. C. Simone, 10 Coleridge Ave. sewer in Donlands Ave. $8,212; to Goldie Constr. Co., 32 Church St., sewer in Mortimer Ave., $26,900; to W. B. Mitchell Constr. Co., 43 Elmwood Ave., London, sewer in Sammon Ave. $10,970, Durant Ave. $1,215; by day labor under supervision of G. R. Jack, twp. engr., sewer in Leryo Ave. $2,805, Goyder Ave. $2,574, Greenwood Ave. $6,847.

Ont., Toronto—York Twp., 40 Jarvis St., vitr. tile sewers in Keele St., Aileen Ave. and Scott Rd., to Holdroft Constr. Co., Kingston, $37,597; Eglington Ave., to Natl. Contg. Co., 9 Garnock Ave., $9,735; Lauder, Northcliffe, Westmount, Raglan and Heathdale Aves., to F. F. Fry Ltd., 43 Scott St., $19,334; in Claxton Blvd., to A. Gavotti, 257 Euclid Ave., $4,054; Lanark Ave. and Gloucester Grove, to Ruscica Bros., 84 Woody Crest Ave., $5,232. Work involves about 20,000 lin.ft. pipe.

Waste Disposal

BIDS DESIRED

Fla., West Palm Beach—July 6, by City, 60 ton garbage incinerator addition. C. A. Bingham, city mgr.; adv. E. N.-R. June 18.

Bridges

PROPOSED WORK

N. Y., Ebenezer—Erie Co. (Buffalo) making preliminary plans 50 ft. concrete bridge over Cazenovia Creek on Mill Road. $40,000. G. C. Diehl, Elliott Sq. Bldg., engr.

S. C., Columbia—Clarendon-Orangeburg Bridge Comn., sold $180,000 bonds for 2 mi. treated timber, steel and concrete bridge over Santee River between Orangeburg and Clarendon Counties. Total cost $440,000. Above counties appropriated $90,000 and State and Federal Aid $260,000 toward cost.

Ohio—Dept. Highways & Pub. Wks., Columbus, rejected bids May 22, bridge on Sect. "E-Bridge" Canton-Canal Dover Rd., Tuscarawas Co., $37,510. Noted May 14.

Ky., Louisville—State Hy. Dept., Frankfort, plans steel truss bridge across Ohio River, at 10th St., here. $5,000,000. Fay, Spofford & Thorndike, 200 Devonshire St., Boston, Mass., engrs.

Kan., Abilene—See "Streets and Roads."

Texas — Texas-Coahuila Bridge Co., Eagle Pass, plans rein.-con. or steel bridge over Rio Grande River at Eagle Pass, Maverick Co. $100,000 or more; and one at Del Rio, Val Verde Co., $150,000 or more. H. Mangum, Eagle Pass, one of incorporators. Engineer not selected.

Tex., Hallettsville — See "Streets and Roads."

Tex., Orange—Orange Co., and Louisiana Hy. Comn., Baton Rouge, La., plan 300 ft. swing, 125 ft. steel and concrete, and simple and timber trestle approach span steel and concrete bridge with piling protection across Sabine River, here. $300,000. G. G. Wickline, 912 West 22nd St., Austin, state bridge engr.

Tex., Sulphur Springs—See "Streets and Roads."

BIDS DESIRED

Connecticut—See "Streets and Roads."

N. Y., West Seneca—June 22, by Bd. Hy. Superintendent, Lind Ave., Gardenville, 3 concrete bridges over Fisher Rd., here, in Erie Co. G. C. Diehl, 575 Elliott Sq., Buffalo, engr.

Georgia—June 26, by State Hy. Dept., East Point, bridge over Satilla River, on Waycross-Brunswick Rd., between Atkinson and Lulation, Federal Aid Project 388, Brantley Co., 14,800 lb. reinfrocing, 410,600 ft. treated and 14,300 ft. untreated timber, 17,872 ft. treated and 1,300 ft. untreated piling, etc. H. M. Pafford, Waycross, engr.

Pa., Chester — June 30, at office G. T. Wadas, county controller Media, Bridge 185, known as West 9th St. bridge over Chester River; adv. E. N.-R. June 18.

Pa., Media — June 30, at office G. T. Wadas, county controller, Bridge 74, known as Maris Worrall Bridge over Darby Creek, on state road between Upper Darby and Springfield Twps.; also Bridge 232, known as Tribbett Ave., over Heresprotes Run. in Folcroft Boro.; adv. E. N.-R. June 18.

Pa., Pittsburgh — Allegheny Co. taking bids and open same about June 10, for bridge masonry and approach fill for substructure of Liberty Bridge over Monongahela River. Total $3,771,000. County-Dept. Pub. Wks., Court House, engrs.

W. Va., Philippi — See "Streets and Roads."

Georgia — July 6, by State Hy. Dept., East Point, steel and concrete bridge across Flat Shoals Creek, about 10 mi. southeast of Lagrange, Troup Co., 238 cu.yd. concrete, 34,450 lb. reinforcing, 360 lin.ft. untreated foundation piles, etc., and concrete bridge about 5 mi. North of Lagrange, at Youngs Mill, Troup Co., 296 cu.yd. concrete, 42,800 lb. reinforcing, etc. W. R. Neel, highway engr.

Alabama—July 8, by State Hy. Comn., Montgomery, 1,400 ft. rein.-con. arch or steel girder bridge with bascule channel span, 20 ft. roadway, and two 6 ft. sidewalks, across Tennessee River on State Project 63, at Decatur and Albany, Limestone and Morgan Counties, 6,000 cu.yd. concrete, 700,000 lb. reinforcing, etc. $425,000. W. S. Keller, highway engr. Noted May 21.

Louisiana—June 30, by State Hy. Dept. Reymond Bldg., Baton Rouge, constructing Salt Bayou Bridge, on New Orleans-Mississippi Highway, Federal Aid Project 126, Sect. C, St. Tammany Parish. W. B. Robert, ch. engr.

Louisiana—See "Streets and Roads."

Missouri—June 26, by State Hy. Comn., Jefferson City, two 12 ft. rein.-con. slab spans, etc. over Midway Creek, Barton Co.; one 55 ft. steel deck plate girder span, etc. over Chicago Rock Island R.R. tracks, Franklin Co.; three 86 ft. rein.-con. arch spans, etc. over Sinking Creek, Shannon Co.; five 110 ft. rein.-con. arch spans, etc. over Meramec River and six 20 ft. rein.-con. slab spans, etc. over Yadkin River, both in Crawford Co.; three 45 ft. rein.-con. deck girder spans, etc. over middle fork of Chariton River, one 35 ft. and two 30 ft. rein.-con. deck girder spans, etc. over Chicago Burlington & Quincy R.R. tracks, both in Macon Co.; one 40 ft. rein.-con. deck girder span, etc. over Grindstone Creek, Dekalb Co.; three 80 ft. rein.-con. arch spans, etc., over Barren Creek, and two 40 ft. rein.-con. deck girder spans, etc. over Hogard Creek, both in Ozark Co. B. H. Piepmeier, ch. engr.

Arkansas—See "Streets and Roads."

Arkansas—June 29, by State Hy. Dept., Little Rock, two 80 ft. truss spans with substructure and five 30 ft. concrete approach span bridge over Frog Bayou, near Alma, 120,600 lb. structural steel, 59,832 lb. reinforcing, etc.; one 60 ft. truss span bridge with substructures, on Mena-De-Queen Rd. near Mena, 33,520 lb. structural steel, 10,575 lb. reinforcing, etc.; one 150 ft. truss span with substructures, and 15

Bridges (Continued)

timber approach spans over L'Anguille River on Marianna North Rd., 131,500 lb. structural steel, 20,508 lb. reinforcing, 2,700 ft. treated and 1,400 ft. untreated piling, 16,344 ft. untreated timber, etc.; one 120 ft. and one 200 ft. truss span with substructures and four concrete approach spans over Fourche River, near Boles, Scott Co., 58,545 lb. reinforcing, 369,250 lb. structural steel, etc. R. C. Limerick, highway engr.

Tex., Wichita Falls—See "Streets and Roads."

Wash., Aberdeen — June 24, by City, 5 concrete piers for bridge replacing old West Bridge, 1,500 cu.yd. concrete, etc., bids for superstructure will be taken soon. $200,000. M. M. Caldwell, Central Bldg., Seattle, engr. Noted June 11.

BIDS RECEIVED

Mass., Boston—Dept. Pub. Wks., rebuilding concrete and steel bridge over tracks New York, New Haven and Hartford R.R., at Massachusetts Ave., from M. P. Gaddis, 2 A Victorian St., Dorchester, $64,350. Noted June 11.

Minnesota—See "Streets and Roads."

Missouri — State Hy. Dept., Jefferson City, June 5, from Novaculity Constr. Co., Marion, Ill., three 14 ft. rein.-con. beam span, etc., over D. D. 22 in Portageville-Arkansas State Line Rd., $3,192; from Capitol Constr. Co., 1207 Cherry St., Des Moines, Ia., three 20 ft. rein.-con. I-beam spans, etc., over D. D. 2 $5,387, three 20 ft. I-beam spans, over D. D. 3 $5,800, three 16 ft., rein.-con. I-beam spans, etc., over D. D. 24, $5,047, on road from Portageville, south, all in Pemiscot Co. Noted May 28.

Tex., Huntsville — See "Streets and Roads."

Tex., San Antonio—City, 2 span 110 ft. rein.-con. and steel bridge across San Antonio River at Crockett and St. Marys Sts., from McKenzie Constr. Co., Travis Bldg., $30,500.

CONTRACTS AWARDED

N. H., Nashua—City, E. Sargent, mayor, new bridge, Main St., to Cunningham & Burwood, Lynn, $173,767. Noted Dec. 25.

Mass., Marshfield—Comrs. Plymouth Co., at office Fay, Spofford & Thorndike, engrs., 200 Devonshire St., Boston, rein.-con. bridge with regulating equipment for waterways in Green Harbor Dike, here, to Eng. Service & Constr. Co., 200 Devonshire St., Boston, $24,750. Noted May 14.

Mass., West Springfield (br. of Springfield)—Dept. Pub. Wks., Boston, W. F. Williams, comr. furnishing, fabricating and erecting steel bridge, here, to Boston Bridge Wks., Inc., 47 Winter St., Boston, $0.05 per lb. Noted June 11.

Conn., New Haven—City, 3 span 217 ft. steel girder bridge over Mill River, at Willow St., to C. W. Blakeslee, 58 Waverly St., $81,249. Noted May 14.

New Jersey—State Hy. Dept., Trenton, double leaf trunnion bridge, etc., over Hackensack River on Route 1, Lincoln Highway between Kearny and Jersey City, Hudson Co., to Stillman, Delehanty, Ferris Co., 1 Exchange Pl., Jersey City, $774,998. Noted June 4.

Pa., Mt. Pleasant — Pennsylvania R.R. Co., Broad St. Sta., Phila., Pa., 205 ft. vertical lift, 2 track, steel bridge over Chesapeake and Delaware Canal, near here, to Phoenix Bridge Co., Phoenixville. Noted Apr. 16 under Wilmington, Del.

Maryland — State Roads Comn., Baltimore, bridge over Licking Creek on Natl. Pike, Contr. W-36, Washington Co., to Forbes-Murphy Constr. Co., 406 St. Paul St., Baltimore, $16,980. Noted June 11.

Ala., Gadsden — State Hy. Dept., Montgomery, 4 span 700 ft. steel bridge, here, to C. G. Kershaw, Woodward Bldg., Birmingham, $353,040. Engrs. est. $354,000.

Tenn., Greenville—Greene Co., 250 ft. rein.-con. and steel bridge across Nolachuckey River, near here, to Luten Bridge Co., Mercantile Bldg., Knoxville, approximately $28,000. Noted May 21.

Ohio and West Virginia — Inter-State Bridge Co., Bellaire, O., steel bridge across Ohio River, between Bellaire, O., and Benwood, W. Va., concrete piers, to Vang Constr. Co., Bessemer Bldg., Pittsburgh, Pa., $249,950; superstructure, to J. E. Moss Iron Co., 4 28th St., Wheeling, W. Va., $725,000.

Ohio—Dept. Highways & Pub. Wks., Columbus, concrete bridge on Sect. "F" Delaware-Newark Rd., Licking Co., to Lynn Constr. Co., Paulding, $12,808; bridge and approaches on Sect. "A" Youngstown-Conneaut Rd., Ashtabula Co., and furnishing and delivering brick for same to Reedy Bros., Warren, $29,568 and $1,139 respectively. Grand total $43,515. Noted May 14.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to W. C. Johnson, Belleville, one 30 ft., three 40 ft. and one 50 ft. span girder bridges, one 20 ft. slab bridge, one substructure for 170 ft. steel span and twenty-five 50 ft. girder approach spans, Route 12, Sect. 1-B, Lawrence Co., $130,000; to Vincennes Bridge Co., Vincennes, Ind., one superstructure for two 160 ft. steel span bridge, Route 13, Sect. 13-C, Jackson Co., $22,892, superstructure for three 50 ft. steel spans, Route 31, Sect. 18-C, Fulton Co., $33,214, superstructure for two 150 ft. steel spans, Route 39, Sect. 120 Champaign Co., $22,974; to Acme Engineers, Decatur, two 150 ft. substructures for steel spans, and two 45 ft. girder approach spans, Route 39, Sect. 12-B, Champaign Co., $21,080; to E. M. Heaton, Marion, two 39 ft. and one 31 ft. rein.-con. girder bridges, Route 1, Sect. 37-Y, Johnson Co., $8,611; to C. J. Moritz, Inc., Effingham, two 40 ft. span rein.-con. girder bridges, Route 33, Sect. 7-D, Effingham Co., $9,171. Grand total $247,942. Noted Feb. 26, Apr. 30 and May 28.

Kan., Ft. Scott—St. Louis & San Francisco R.R. Co., 322 North Bway., St. Louis, Mo., 50 ft. rein.-con. and steel viaduct over 3rd St., here, to Hedges Constr. Co., Holland Bldg., Springfield, Mo., approximately $30,000.

Calif., Hinton—State Hy. Comn., Sacramento, three 60 ft. and two 34 ft. span rein.-con. girder bridge, 21 ft. across Truckee River, near here, to McKay Eng. Co., Los Angeles Ry. Bldg., Los Angeles, $33,691. Engrs. est. $32,500.

Calif., San Onofre — State Hy. Comn., Sacramento, 8 fifty ft. span rein.-con. girder bridge, 30 ft. over San Mateo Creek, about 1 mi. north of here San Diego Co., to R. A. Wattson, 2304 Hyperion St., Los Angeles, $74,787. Engrs. est. $96,320. Noted June 11 under "California."

Dams

BIDS DESIRED

N. Y., Gouverneur—July 9, by Bd. Lighting Comrs., 175 ft. concrete dam. L. C. Reynolds, 387 Castle St., Geneva, engr.; adv. E. N.-R. June 18.

O., Hinckley (mail Brunswick) — June 19, by Bd. Park Comrs. of Metropolitan Park Dist., West 3rd St. and Frankfort Ave., Cleveland, for rein.-con. dam, 15,000 cu.yd. concrete and 150,000 lb. reinforcing. $70,000. A. W. Zesiger, c/o owner, engr.

CONTRACTS AWARDED

Ont., Norman — Kewatin Power Co., Kenora, (owned by Backus-Brooks Co., 1100 Builders Exch. Bldg., Minneapolis Minn.), will rebuild rein.-con. dam, here, at Lake of the Woods, incl. 17,500 hp. hydro-electric plant, and 30,000 ton sulphite paper mill, by day labor. Private plans.

Railways

PROPOSED WORK

Ohio — Northern Ohio Traction & Light Co., Terminal Bldg., Akron, plans new tracks between Bedford and Cleveland and new yard at stop 28 south of Bedford, $300,000; double tracking High St. in Barberton, $125,000; and removing, replacing and repairing tracks in New Philadelphia, $50,000. E. Krode, Terminal Bldg., Akron, ch. engr.

Ontario—Canadian Natl. Ry., New Union Sta., Toronto, plans additional siding to new grain elevator. $50,000. C. B. Brown, Montreal, ch. engr.

BIDS DESIRED

California—See "Excavation, Drainage, Irrigation, Levees, under Manteca."

CONTRACTS AWARDED

Kansas and Oklahoma — Atchison, Topeka & Santa Fe R.R. Co., Ry. Exch. Bldg., Chicago, Ill., 56 mi. track extension, incl. grading, laying tracks from Elkhart, Morton Co., Kan., to Cimarron and Texas Counties, Okla., to Sprague & Nisely, Beatrice, Neb.; stations, section houses, etc., to J. E. Nelson & Sons, 3240 South Michigan Ave., Chicago, Ill. Engrs. est. $600,000.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Fla., Ft. Pierce—Ft. Pierce Inlet Dist., St. Lucie Co., voted $400,000 bonds to deepen channel of inlet to 18 ft., and extending jetties.

Kan., Williamstown — Stonehouse D. D. 1, making preliminary plans 3 mi. ditch 25 ft. at bottom, 10 ft. deep with levee on either side 90,740 cu.yd. excav., 1,180 cu.yd. borrow, grubbing 780 trees and 6,500 ft. hedge. Kansas Eng. Co., 1233 Webster St., Topeka, engrs.

Calif., Richmond—Rejected bids May 25, dredging approximately 100,000 cu.yd. in Inner Harbor. Noted June 11.

Calif., Stockton—Voted $3,000,000 bonds for deep water project, dredging, etc. W. B. Hogan, city engr. Noted Mar. 12.

BIDS DESIRED

Louisiana—June 25, by State Hy. Dept., Reymond Bldg., Baton Rouge, constructing roadway embankment, by either dredging canal, and constructing 0.862 mi. fire protection canal, Vinton-Orange Highway, Federal Aid Project 43-D, Calcasieu Parish. W. B. Robert, ch. engr.

Ill., Cairo — June 22, by Comrs. Drive Branch D. D. at office of Gilbert & Gilbert, engrs., Cairo, 7,646 ft. 8- to 20-in. tile to grade covering laterals 5, 5-A and 5-B.

Calif., Manteca—June 29, by Directors of Manteca Irrigation Dist., constructing Melones dam on Stanislaus River, in Tuolumne and Calaveras Counties, 16,000 cu.yd. excav. (mostly rock), 4,500 cu.yd. tunnel excav., 90,000 cu.yd. concrete, 570 tons metal gates, 80,000 bbls. cement; also for Melones Dam Railway and Wagon Rd. near above, 90,000 cu.yd. grading, 1,600 lin.ft. corrugated iron culverts, 8.5 mi. track laying, 850 tons track metal, 22,500 cross ties, etc. for South San Joaquin Irrigation Dist., Manteca, and Oakdale Irrigation Dist., Oakdale.

BIDS RECEIVED

Neb., Lincoln — Sanitary Dist. of Lancaster Co., c/o Peterson & Devoe, Bankers Life Bldg., from Martin-Day Co., 310 Little Bldg., constructing new channel Salt Creek and diversion dams, 135,000 cu.yd. excav. at $0.10 per cu.yd., one hundred 16 ft. cypress sheeting piling $1.75, 18.96 ft. fir timber in place $120.

CONTRACTS AWARDED

Fla., St. Petersburg — Voted $180,000 bonds, widening and deepening Booker Creek 9th St. Bridge to Bayou Harbor, incl. construction walls, etc. S. S. Martin, dir. Finance.

La., New Orleans—Bd. State Engineers, Room 213-15, New Court House Bldg., enlarging and repairing levee at Sutton to Well Bayou, Avoyelles Parish, to Dameron & Kenyon, Baton Rouge, $23,680.

Ill., Bloomington — McLean Co., Downs Mutual D. D., c/o Hall, Martin, Hoose & De Pew, 211 Unity Bldg., Bloomington, 16,020 ft. 12- to 24-in. tile pipe, 200 ft. 24 in. sewer pipe, etc., to Natl. Drain Pipe Co., 120 Rose Dispensary, $17,368.

Tex., Brownsville—Syndicate, system of canals and laterals to irrigate approximately 1,000 acres in El Jardin Heights, to Rio Grande Eng. Co., 305 1st Natl. Bank Bldg., Brownsville, $30,000.

Calif., Manteca — Trustees South San Joaquin Irrigation Dist., 4,000 bbl. Portland cement, to Stockton Ice & Fuel Co., Stockton, at $2.96 per bbl.; also 432,000 lb. square corrugated reinforcing steel bars, to E. L. Soule Co., Rialto Bldg., San Francisco, $3.18 per 100 lb.

Calif., Woodland — Reclamation Dist. 2068, Yolo Co., 730,000 cu.yd. machine excav., 217,000 sq.yd. concrete or granite lining, 4 pumping plants, 185,000 cu.yd. Fresno earthwork bridges, etc., to Callahan Constr. Co. & Smith Bros., Inc., 412 2nd St., Marysville, approximately $500,000.

N. S., Lunenburg—Dept. Pub. Wks., Ottawa, Ont., dredging 126,000 cu.yd., here, to Acadia Contractors Ltd., Halifax, $0.52 per cu.yd.

Streets and Roads

PROPOSED WORK

Mass., Boston—Plans bituminous macadam surfacing Fenway St. between Longwood and Huntington Aves. $50,000. J. B. Shea, chn. Park Dept., 33 Beacon St.

Mass., Cambridge (Boston P. O.)—Plans paving Massachusetts Ave. from Harvard Bridge to Princeton St. $30,000 appropriated. Pub. Wks. Dept., engr.

Mass., Cambridge (Boston P. O.) — Plans paving Inman St. from Massachusetts Ave. to Inman Sq. $25,000 appropriated. Pub. Wks. Dept., engr.

Mass., Needham (Ind. br. of Boston) — Town, Norfolk Co. (Dedham), and State Hy. Dept., Boston, plan reconstructing Central Ave. $30,000 appropriated. Engineer not selected.

R. I., Providence — Dept. Pub. Wks., plans asphalt resurfacing Oakland Ave., Candace, Jewett and Somersett Sts. $25,000. W. F. Slade, comr.

R. I., Providence—Plans asphalt resurfacing Pavilion Ave., Eddy, Baker and Broad Sts. $25,000. W. F. Slade, comr. Pub. Wks. Dept.

Connecticut—State Hy. Dept., Hartford, plans improving highways from North Somers to Massachusetts State Line and

Streets and Roads (Continued)

East Long Meadow; from Bull's Corner, Main St., Woodbury to Tylers Bridge; from Wolcott and Oak St., Waterbury to Wolcott and Union St., Bristol; from East Haven Green via Short Beach to Post Road and Plants' Corner; from Hartford-New London Turnpike and Chesterfield to Post Road; from Winchester town line to Norfolk town line; from Indian Well, Shelton to Monroe town line; from New Britain town line and Kensington to West Main St., Meriden; from Mark Twain Library, Redding to Bethel; from Deep River to Killingworth; from East Hampton to Westchester; from Norfolk to New Canaan; from Brookfield to Bridgewater; also State St., Hamden, from New Haven to North Haven. W. A. McDonald, comr.

Conn., New Britain—Takes bids about July 1, resetting curbs, and rein.-con. or 3 in. bituminous on 6 in. concrete paving about 1,800 ft. Hartford Ave. from North St. to North Stanley St., 37 ft. $25,000. J. D. Williams, city engr.

N. J., Camden—Camden Co. plans improving 5 mi. various streets in Pensauken Twp. $235,000. R. V. Peabody, twp. clk. Engineer not selected.

Pa., Pittsburgh — Allegheny Co. plans rein.-con. paving 4,650 ft. Squaw Run Rd., 18 ft., $50,000. Co. Dept. Pub. Wks., City County Bldg., engrs.

Florida—State Road Dept., Tallahassee, made plans and takes bids about July 15, clearing and grubbing, etc., 7.431 mi. Project 595, Volusia Co. $168,000. J. L. Cresap, engr.

Fla., De Land—J. B. McCrary Eng. Co., engrs., Citizens & Southern Bank Bldg., Atlanta, Ga., take bids about July 1, paving 140,000 yd. various streets, here, for City.

Fla., St. Petersburg — Voted $490,000 bonds opening 1st Ave. N. from Capac to 9th Sts. S. S. Martin, dir. Finance.

Fla., Sarasota — Sarasota Co., election June 16, $30,000 bonds improving Rd. 1 Lockwood Bridge Rd.; $25,000 bonds Rd. 2, Verna Rd.; $25,000 bonds Rd. 3, Bradentown and Rd. 5 Venice By-Way; $75,000 bonds Rd. 4, Venice-Englewood Rd.; $157,000 bonds Rd. 6, Englewood-Miakka River Rd.; $55,000 bond Rd. 7, Hancock Road; $78,000 bond Rd. 8 Miakka Rd.; $100,000 bonds Rd. 9, Madison-Sugar Bowl Rd.; $95,000 bonds Rd. 10, Bee Ridge Rd.; $220,000 bonds Rd. 11, Siesta Rd.; $115,000 bonds Rd. 12, Crescent Beach Rd.; $30,000 bonds Rd. 13, Stickney Bridge Key and Rd. 20, Gocio Rd.; $28,000 bonds Rd. 14, Stickney Point Rd.; $28,000 bonds Rd. 15, Blackburn Point and Rd. 21, Albee Rd.; $60,000 bonds Rd. 16, Fruitville-Madison Rd.; $30,000 bonds Rd. 17, Tuttle Ave.; $25,000 bonds Rd. 18, Hyde Park Ave. Rd.; $65,000 bonds Rd. 19, Swift Rd.; $25,000 bonds Rd. 22, Wilkinson-McIntosh; $45,000 bonds Rd. 23, Clark Rd.; $25,000 bonds Rd. 24 McCall Rd.; $35,000 bond Rd. 25, Woodmere-Manosata Rd.; $48,000 bonds Rd. 26, Siesta Bridge Rd.; $25,000 bonds Rd. 27, Fruitville Rd.; $65,000 bonds Rd. 28, Bay Shore Rd.; $80,000 bonds Rd. 29, Old Miakka Rd.; $200,000 bonds Rd. 30, Osprey Ave.-Bee Ridge Rd.; $83,000 bonds Rd. 31, Victory Ave. Loop and Rd. 32 De Soto Rd.; $60,000 bonds Rd. 33, Indian Beach Rd., and $240,000 bonds Sugar Bowl Extension Rd. O. E. Roesch, co. clk.

Fla., Tampa—Plans grading and paving portion of Main St., $25,000; Buffalo St., $25,000; Woodlawn Ave., $25,000; and Palm St., $25,000. R. F. Martin, City Hall, engr.

Fla., Wauchula — Voted $50,000 bonds, paving various streets. W. D. Carlton, mayor.

Ala., Birmingham — City Commission takes bids about Aug. 1 asphalt paving 6 blocks 35th St., 3 blocks 16th Pl., and 3 blocks Huntsville Rd., all foregoing 40 ft.; also 1 block 20th Pl., 30 ft., $27,000. A. J. Hawkins, city engr.

Miss., Natchez — Voted $500,000 bonds, grading, curbing and hardsurfacing, etc. various streets. M. L. Culley, Jackson, engr.

Miss., Natchez — Wilkinson Co. election June 30, $40,000 bonds, improving 8 mi. Woodville-Louisiana State Line Rd.

Miss., Water Valley—Yalobusha Co. defeated $362,000 bonds, improving various roads. Noted Apr. 30.

Tenn., Dyersburg — Dyer Co. takes bids about June 29, improving various roads. $1,000,000. Noted Mar. 19.

Tenn., Memphis — Plans opening, widening, curbing and gravel surfacing, etc., 4,200 sq.yd. McMillan St., $18,734; grading, curbing, bituminous surfaced gravel paving, etc., 2,700 sq.yd. Manila Ave., $12,116, and 2,500 sq.yd. Court Ave., $10,488. W. Fowler, city engr.

O., Canton—Stark Co., plans brick paving 3 mi. Canton-Canal Fulton Rd., $16 ft. $85,000. A. M. Wise, Court House, engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections and paving with (a) asphalt (b) brick and (c) concrete 2,977 ft. Gregory, Magnolia and 26th Aves., 24 ft. (a) $46,374, (b) $56,051; 672 ft. Mock Rd., 30 ft., (a) $11,086 (b) $13,078; 552 ft. alley north Wyandotte Ave., 15 ft., (b) $3,474 (c) $3,085. R. H. Simpson, city engr.

O., St. Clairsville — Belmont Co. soon takes bids macadam and concrete paving 1 mi. and 500 ft. Sect. Barnesville-Bethesda Rd., 16 ft. $50,000. P. Murphy, St. Clairsville, engr.

Michigan — State Hy. Dept., Lansing, plans graveling 6.25 mi. Hale-Long Lake Rd., Iosco Co. G. C. Dillman, ch. engr.

Mich., Detroit—Made plans sheet asphalt concrete paving 3,185 sq.yd. 14th Ave., 24,445 sq.yd. Wyoming Ave. Sect. 1, 13,402 sq.yd. Canfield Ave., 5,628 sq.yd. Kendall Ave., 7,586 sq.yd. Alter Rd. from Kercheval to Charlevois Aves., 5,364 sq.yd. Alameda Ave., 3,834 sq.yd. Mandale Ave., 5,043 sq.yd. Alden Ave., 2,571 sq.yd. Tyler Ave., 5,747 sq.yd. Alter Rd. from Mack to Lozier Aves., and 1,869 sq.yd. Clarion Ave. P. A. Fellows, city engr.

Mich., Detroit—Making plans sheet asphalt paving 4,180 sq.yd. Cecil Ave. $18,814, 15,200 sq.yd. Wyoming Ave. $68,320, 25,190 sq.yd. Wyoming Ave., Sect. 3, $113,200, 4,020 sq.yd. Glendale Ave. $18,090, 1,280 sq.yd. Pittsburgh Ave. $5,800. P. A. Fellows, city engr.

Ill., Belleville—Making preliminary plans grading, curbing and concrete surfacing Roland Ave., 33rd, 34th and 35th Sts. $45,000. C. A. Hunzelman, City Hall, engr.

Ill., Metropolis — Massac Co., defeated $88,500 bonds gravel surfacing roads in Dist. 6.

Ill., Rockford — Plans grading, curbing and macadam surfacing Fremont St. from Burton to Fulton Sts.; concrete surfacing 12th St. from 14th to 16th Aves.; and alley between Grand and Churchill Sts. and between Cheanut and Green Sts. $35,010. B. C. Harvey, city engr.

Minn., Minneapolis — Legislature authorized $100,000 bonds, grading and gravel surfacing 20 mi. 6th Ave. N. beginning at point 4 mi. from city limits, Hennepin Co. Total $171,000. J. W. Shaffer, Court House, co. surv.

Minn., Minneapolis—City and Hennepin Co. making plans grading 6.5 mi. 54th St. (south city limits). $30,000. N. W. Elsberg, City Hall, engr.

Kan., Abilene—Dickinson Co. made plans grading, bridging, etc., 15.462 mi. Federal Aid Project 29-A and B, 28 ft. C. Nicholay, Abilene, engr.

Neb., Papillion — Plans brick paving streets in Sects. 4 and 5. $42,539. R. L. Cochran, Lincoln, highway engr.

Neb., Papillion — Sarpy Co. takes bids about June 15, 3 in. gravel surfacing 7 mi. various streets in Forrest City Precinct, $50,000; and 10.25 mi. in Richland Precinct, $53,000; 4 in. gravel surfacing 3.5 mi. streets in Papillion Precinct, $21,000, and 2 mi. streets in Gilmore Precinct, $14,000. J. D. Gavenman, Papillion, co. engr. Noted Jan. 29 and Feb. 5.

Mo., Sullivan—Soon takes bids concrete paving various streets. $40,000. Alexander Eng. Co., 517 Woodruff Bldg., Springfield, engrs. Noted May 28.

Tex., Amarillo — Making plans paving streets in Glenwood addition. $75,000. H. B. Jones, Amarillo, engr.

Tex., Decatur—Wise Co., c/o S. M. Ward, judge, election June 27, $1,000,000 bonds, improving various roads. H. R. Smith, Decatur, engr.

Tex., Hallettsville — Lavaca Co. election June 15, $150,000 bonds, gravel surfacing, bridging, etc. road between Sweet Home-Fayette Co., State Highway 72. W. H. Koether, Hallettsville, co. engr. Noted June 11.

Tex., Laredo — Webb Co. making plans gravel surfacing, etc. 1.59 mi. State Highway 2, State Project 559, 18 ft. $27,000. T. E. Huffman, Laredo, engr.

Tex., Sulphur Springs — Hopkins Co. making plans grading, bridging, etc. 8.84 mi. State Highway 1, Federal Aid Project 431-C, 18 ft. $60,000. J. B. Rieman, Sulphur Springs, engr.

Tex., Sweetwater — Nolan Co. making plans gravel surfacing, etc. 9.1 mi. State Highway 7. $140,000. J. A. Focht, Sweetwater, engr.

Okla., Morris — Making plans grading, curbing, guttering and vertical fibre brick surfacing 7,600 sq.yd. Main St. $35,000. Berwin & Wilson, Henryetta, engrs.

Okla., Okemah—Plans grading, curbing, guttering and vertical fibre brick surfacing 9,100 sq.yd. West Bway. $46,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., San Francisco — City and San Francisco Co., plan election $10,000,000 bonds, extending city boulevard system, purchase land for extensions, golf course, and park improvements, etc. M. M. O'Shaughnessy, city engr.

Ont., Brantford—Brant Co. voted $75,720 bonds, maintenance and construction of gravel roads, grading, culverts, etc. Most of work will be done by day labor. A. M. Jackson, County Bldg., engr.

Ont., London—Plans curbing, guttering, sidewalks and asphalt, concrete or macadam paving 40,000 sq.yd. various streets. $160,000. W. P. Near, city engr.

Ont., Niagara Falls—Plans curbing, guttering, grading, asphalt paving 12,000 sq.yd. Macdonald Ave. $15,958, 5th Ave. $18,643, and Orchard St. $8,858. Work will probably be done by day labor. T. S. Scott, city engr.

Ont., Niagara Falls—Plans curbing, guttering and asphalt paving 11,000 sq.yd. May Ave. $10,702, Heywood Ave. $8,531, and Stamford St. $12,386. T. S. Scott, city engr. Work will probably be done by day labor.

Ont., Orangeville—Dufferin Co. plans to expend $75,000 on maintenance earth and gravel roads, etc. Work will be done by day labor. Wheelock & Christie, Orangeville, engrs.

Ont., Pembroke—Plans grading and asphalt, waterbound macadam or concrete paving 18,000 sq.yd. various streets. $50,000. J. P. Howe, city engr.

Okla., Ponca City—Plans paving various streets. To exceed $25,000. E. A. Jones, Ponca City, engr.

Ont., Sarnia—Plans sidewalks and asphalt or concrete paving 7,000 sq.yd. various streets. $30,000. W. V. Taylor, city engr.

Ont., Toronto—Plans bitulithic paving Meagher Ave. $14,880, Glenlake Ave. $13,754; asphalt paving Burnside Dr., $17,151; grading lane southerly from Willow Ave. $5,850, Glenmanor Dr. W. $7,288, Glenmanor Dr. E., $9,012; concrete sidewalks on Adelaide St. W. $343, Beulah St. $783, Burnside Dr. $2,783, Bathurst St. $1,727, Chatsworth Dr. $7,053, Davisville Ave. $584, Cedarvale Ave. $759, Glenrose Ave. $988, Gunns Rd. $2,318, Harper Ave. $4,595, Hudson Ave. $4,595, Jedburgh Rd. $1,093, Orchard Park Blvd. $642, Queen St. $1,698, Redpath Ave. $1,942, Roehampton Ave. $329, Rosedale Heights Dr. $3,249, Silverthorn Ave. $1,496, and Yonge St. $822. R. C. Harris, city engr.

Ont., Walkerville—Making plans concrete paving various streets. $100,000. A. Patterson, city engr.

BIDS DESIRED

Maine — June 23, by State Hy. Comn., Augusta, concrete and bituminous macadam surfacing, 3.87 mi. Sect. A York, and bituminous macadam surfacing 2.87 mi. Sect. B, Windham-Raymond Rds. P. D. Sargent, ch. ehgr.

Massachusetts—June 23, by Dept. Pub. Wks., Boston, bituminous macadam surfacing 3,700 ft. highway, in West Stockbridge, 1,700 ft. highway, in Weston, 525 ft. highway in Reading, and 10,748 ft. highway in Northfield; sheet asphalt or bitulithic paving Barrington and Minot Sts. and Hazelton St. extension, Dorchester; also gravel surfacing 3,400 ft. highway, in Tolland and Sandisfield. $25,000. J. A. Rourke, comr.

Rhode Island—July 1, by State Bd. Pub. Wks., State House, Providence, rein.-con. paving 7.69 mi. Contr. 2507, Federal Aid Project 25, Washington Co.; also bituminous macadam paving 2.91 mi. Contr. 2508, Newport Co.; adv. E. N.-R. June 18.

Connecticut—June 23, by J. A. Macdonald, comr. State Hy. Dept., Hartford, bituminous macadam paving roads in Chaplin, Roxbury and Simsbury; rein.-con. surfacing roads in Cromwell, Glastonbury, Milford, Meriden and Southington, Stamford and Darien, Torrington and Winchester; waterbound macadam surfacing in Hartland and Shelton; sheet asphalt paving in Hartford; plain and rein.-con. paving road in New Milford; grading, etc., in Fairfield, and 26 ft. 6 in. span concrete girder bridge over Trout Brook in West Hartford; adv. E. N.-R. June 18.

N. Y., Brooklyn—June 24, by J. A. Guider, boro pres. Boro Hall, asphalt paving Kings Highway, Park Pl., Caton, Nostrand, 10th, and 12th Aves., Ave. P from Gravesend Ave. to Ocean Parkway, and Ave. P from Ocean Parkway to East 9th St., East 17th, 65th, 70th and 83rd Sts.; grading, curbing and flagging East 17th and 93rd Sts.

N. Y., Long Island City — June 23, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, sidewalks and asphalt paving 7th and 88th Aves., 108th, 122nd and Hooker Sts.; asphalt repaving Fushing and Jamaica Aves.; grading, curbing, sidewalks, etc. on Shaler St.; regrading and paving Queens Blvd. from Gosman Ave. to 67th St. (Lee Ave.) and Queens Blvd. from 67th St. (Lee Ave.) to Bway. (Grand St.)

Streets and Roads (Continued)

New Jersey—July 6, by State Hy. Dept., Trenton, rein.-con. paving 90,220 sq.yd. Route 4, Sect. 32, Middlesex and Union Counties. A. L. Grover, secy.; adv. E. N.-R. June 18.

N. Y., Peekskill—July 6, at office F. L. Merritt, clk., Bd. Supervs. Westchester Co., Court House, White Plains, rein.-con. paving 1.31 mi. South Division St., here. F. L. Merritt, clk.; adv. E. N.-R. June 18.

N. J., Newton — July 1, by Bd. Freeholders Sussex Co., rein.-con. paving 14,222 sq.yd. Ross Corner Sussex Rd., Sect. 1B, Frankford Twp. and shale surfacing 60,335 sq.yd. Sussex Coleville Rd., Wantage Twp. H. Snook, co. engr.; adv. E. N.-R. June 18.

N. J., Trenton—June 23, by Freeholders Mercer Co., paving and widening Ewingville road and pipe drain in Kuser road. $27,000. H. F. Harris, Trenton, engr.

Pa., McMurray (Mail Cannonsburg)—June 24, by Comrs. Allegheny Co. (Pittsburgh), rein.-con. paving 12,000 ft. McMurray Rd., 18 ft., here. $100,000. County, c/o Dept. of Pub. Wks., City County Bldg., Pittsburgh, engrs.

Pa., Phila.—June 22, by Bureau Highways & Dept. Pub. Wks., (Schedule A) grading 94,106 cu.yd. 9 streets; (Schedule B) asphalt paving 397,666 sq.yd. 26 streets; (Schedule C) country road improving 15,251 sq.yd. 7 streets; (Schedule D) redressed granite block paving 20,031 sq.yd. 3 streets; (Schedule E) furnishing granite blocks to pave 7,200 sq.yd. 16th St.; (Schedule G) grading 374,074 cu.yd. 1 street. G. H. Biles, dir. Pub. Wks.

Pa., Uniontown—June 30, by E. Huston, controller Fayette Co., one course rein.-con. paving, etc., 6,550 ft. Uniontown-McClellandtown Rd. L. C. Clemmer, Uniontown, engr. Noted May 28.

Md., Baltimore—June 24, by Bd. Awards, improving streets as listed in Contr. 289-OANA. L. G. Turner, acting chn. Paving Comn., 214 Lexington St., engr.

W. Va., Huntington — June 22, by Bd. City Comrs., grading, curbing and paving Elwood Ave. from Washington Blvd. to Saltwell Rd., Arlington; Carlton St. from Elmwood to Sumner Aves. and Sumner Ave. from Willoughby Ave. to Arlington Blvd. A. B. Maupin, city engr.

W. Va., Philippi — July 1, by Barbour Co. Court, grading, bituminous macadam surfacing, etc. 1.5 mi. Ford Run Rd., Project 6, Philippi Dist. 0.3 mi. Morrall Rd., Project 6-A, Philippi Ind. Dist., (both to be let as one project), also 3 mi. Taylors Drain Clemtown Rd., Project 9, Pleasant Dist. R. Johnson, Philippi, co. engr. Noted Apr. 2.

W. Va., Philippi—July 2, by Barbour Co. Court, grading, bituminous macadam surfacing, etc. 1.3 mi. Bend of the River Rd., Project 7, Philippi Dist., 2 mi. Bear Valley Rd., Project 1, Pleasants Dist., incl. Simpson Bridges 1 and 2. R. Johnson, Philippi, co. engr. Noted Apr. 2.

W. Va., Philippi — July 3, by Barbour Co. Court, grading, bituminous macadam surfacing, etc. 1.7 mi. Brushy Fork Rd., Project 5, Philippi Dist., and 4 mi. Philippi-Dent Rd., Project 10, Cove Dist. R. Johnson, Philippi co. engr. Noted Apr. 2.

N. C., Elizabeth City — June 27, by Pasquotank Co. Highway Comn., paving 3 mi. Body Rd. J. R. Ford, Box 232, engr.; adv. E. N.-R. June 18.

S. C., Georgetown—July 1, at office of City Clerk, paving, etc., 230,000 sq.yd. various streets. Johnson & Johnson, Marion, engrs.; adv. E. N.-R. June 18.

Georgia — June 26, by State Hy. Dept., East Point, sheet asphalt or Kentucky rock asphalt surfacing 63,787 sq.yd. Athens-Winder Rd. Federal Aid Projects 48 and 400-A, Clarke Co.; concrete surfacing 99,986 sq.yd. Valdosta-Quinton Rd., Federal Aid Project 397, Lowndes Co. double surface treating 155,356 sq.yd. Thomasville-Quitman Rd., Federal Aid Projects 142 and 294-A, Thomas Co., and 65,707 sq.yd. Waycross-Falkston Rd., Federal Aid Projects 114 and 212, Ware Co. H. M. Pafford, Waycross, engr.

Ga., Columbus—June 29, by Comrs. Muskogee Co., Court House, resurfacing approximately 90,000 sq.yd. tarvia surfaced streets. R. H. Barnes, Columbus, co. clk.

Fla., Dade City—July 7, by Bd. Comrs. Pasco Co., bituminous on rock paving Projects 1, 2, 3, 4, 5, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 25; grading, etc., Project 10; grading and sand clay surfacing Projects 20, 23 and 24. A. J. Burnside, clk.; adv. E. N.-R. June 18.

Fla., Tampa—June 23, by City Comrs., widening, regrading and vitr. brick paving 7th Ave. $40,000. R. D. Martin, City Hall, engr.

Louisiana—June 22, by State Hy. Dept., Reymond Bldg., Baton Rouge, vitr. brick, Warrenite bitulithic, asphaltic concrete, Uvalde rock asphalt, or sheet asphalt paving 1.413 mi. State Project 360 B, Baton Rouge-Agricultural College Highway, East Baton Rouge Parish. W. B. Roberts, ch. engr. This corrects report in May 28 issue.

Louisiana—July 2, by State Hy. Comn., Reymond Bldg., Baton Rouge, graveling 2 mi. Many Zwolle Highway, State Project 398-B, Sabine Parish, 6.45 mi. St. Francisville-Clinton Highway, State Project 375-A, Easn Feliciana Parish, and 7.75 mi. Monroe-Farmersville Highway, State Project 449, Ouachita Parish, also separate bids furnishing gravel for above projects. W. B. Robert, ch. engr.

Kentucky—July 13, by State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project, and S. A. P. means State Aid Project)**, grading, etc., 2.5 mi. Cannonsburg-Laurel Creek Rd., F. A. P. 137, Boyd Co., 4.8 mi. Bardwell-Wyckliffe Rd., F. A. P. 131-C, Carlisle Co., 3.4 mi. Madisonville-Hopkinsville Rd., F. A. P. 122-A and B, Hopkins Co., 3.3 mi. Beatyville-Jackson Rd., S. A. P. 29-C, Lee Co., 6.5 mi. Owensboro-Livermore Rd., S. A. P. 77-A, 2.9 mi. Livermore-Central City Rd., S. A. P. 77-B, and 4 mi. Owensboro-Beech Grove Rd., McLean Co., all foregoing 24 and 28 ft.; rock asphalt on concrete or rein.-con. surfacing 0.7 mi. Covington-Lexington Rd., 24 and 36 ft., F. A. P. 141-A, Kenton Co.; river gravel, bank gravel or waterbound macadam surfacing 6.3 mi. Louisville-Paducah Rd., 16 ft., F. A. P. 31, Meade Co. E. N. Todd, highway engr.

O., Akron — June 29, by W. F. Peters, dir. Pub. Serv., grading, curbing, laying sidewalks and vitr. brick paving, etc. 7,070 sq.yd. Greenwood Ave. $53,000, 3,700 sq.yd. Damon St. $30,200, 6,440 sq.yd. Madison Ave., $54,200, 1,175 sq.yd. Cranz Pl. $9,500, 1,700 sq.yd. 6th St., $11,800; grading and vitr. brick paving 920 sq.yd. Albion Ave., $4,300. E. A. Kemmler, Delaware Bldg., engr.

O., Akron—June 29, by Comrs. Summit Co., grading, curbing and bituminous concrete paving, etc., 17,200 sq.yd. Cuyahoga Falls-Magadore Rd., $74,000, and 6,000 sq. yd. South Main St. Rd., $26,400; grading and improving with slag, etc., 2.73 mi. Monroe Falls-Kent Rd., 6,000 tons slag, etc., $27,500. R. E. Willems, Court House, engr.

Ill., De Kalb—June 22, by City Clerk, grading, curbing and 7 in. concrete surfacing 5,819 sq.yd. various streets. W. M. Hay, De Kalb, engr. Noted Jan. 1.

Wis., Beloit—June 22, by G. E. Heebink, city engr., improving various streets, 10,000 cu.yd. excav., 32,500 sq.yd. vertical fibre brick on 6 in. concrete, sheet asphalt on 6 in. concrete or one-course rein.-con. paving, etc. Former bids rejected. Noted May 7.

Ia., Des Moines—June 22, by A. E. McGlothlen, city clk., grading, curbing and asphaltic concrete, asbestophalt, Willite, sheet asphalt, Warrenite, concrete, Johnson method, brick or vibrolithic paving 6,450 sq.yd. Boulder, Southwest Pleasant, and Southwest 13th Sts. K. C. Kastberg, city engr.

Ia., Iowa City—June 26, by G. J. Dohrer, city clk., grading, curbing and asphalt or rein.-con. surfacing 13,200 sq.yd. Melrose Court, Brookland Park Dr., Woodlawn Ave., Bayard, Clark, Dearborn and other streets. F. E. Young, city engr. Noted June 4.

Ia., Stanton—June 30, by L. Peterson, town clk., 28,000 sq.yd. street and alley paving, 19,000 ft. curb and gutter, 2,500 ft. storm sewers, 9,000 sq.yd. reinforcing and 15,000 cu.yd. grading. DeLay & DeVoe, Creston, civil engrs. Noted May 21.

Minnesota—June 30, by State Hy. Dept., 1246 University Ave., St. Paul, **(S. P. means State Project and F. A. P. means Federal Aid Project)** concrete paving 120,000 sq.yd. S. P. 3-39, Sect. 1, F. A. P. 327, $280,000; grading 194,000 cu.yd. S. P. 1-44, Sect. 5, Div. B, F. A. P. 1, $40,000; gravel surfacing 26,000 cu.yd. S. P. 8-06, F. A. P. 278, $27,000; grading 114,000 cu.yd., and constructing Bridge 4366, 25 ft. long on S. P. 7-37, F. A. P. 369, $25,000, 81,000 cu.yd. and Bridge 4363, 50 ft. long, and Bridge 4364, 80 ft. long, Bridge 4365, 20 ft. long, on S. P. 7-38, F. A. P. 369, $30,000, 325,000 cu.yd. and constructing Bridge 4411, 35 ft. long, on S. P. long, on S. P. 7-39, Sect. 1, F. A. P. 367, $65,000, 420,000 cu.yd. and constructing Bridge 3948, 75 ft. long, Bridge 3949, 50 ft. long, Bridge 3950, 60 ft. long, Bridge 3951, 40 ft. long, Bridge 3952, 50 ft. long, Bridge 3993, 30 ft. long, Bridge 3994, 20 ft. long, Bridge 4437, 35 ft. long, and Bridge 4443, 30 ft. long, on S. P. 9-35, F. A. P. 312, $100,000. Eng. Dept. State Hy. Dept., St. Paul, engrs.

Kan., Hiawatha—June 22, by Black & Veatch, engrs., 700 Mutual Bldg., Kansas City, Mo., curbing, etc., and asphaltic surfacing 31,181 sq.yd. various streets, here, for City. Noted June 11.

N. D., Grand Forks — July 8, by City Clerk, paving 9 blocks various streets. $43,000. C. J. Evanson, city aud. Noted June 4.

Missouri—June 26, by State Hy. Dept., Jefferson City, grading, etc. 62,076 cu.yd. Lamar-Jasper Rd., Barton Co., 96,077 cu.yd. Stewartville-Cameron Rd., DeKalb Co., 10,564 cu.yd. Gallaway-Rogersville Rd., Greene Co., 9,722 cu.yd. road from Trenton south, Grundy Co.; 30 ft. grading, etc. 24,834 cu.yd. Phillipsburg-Lebanon Rd., 17,216 cu.yd. road from Conway, north and south, both in Laclede Co., 118,063 cu.yd. Calloway-Macon Rd., Macon Co., and 115,485 cu.yd. Ava-Gainesville Rd., Ozark Co.; 12 ft. gravel surfacing 7,040 cu.yd. Warrenton-Hopewell Rd., Warren Co.; 18 ft. gravel surfacing, etc. 5,999 cu.yd. Macks Creek-Lunas Rd., Camden Co.; 20 ft. gravel surfacing, etc. 83,007 cu.yd. Cuba-Steelville Rd., Crawford Co., 545 cu.yd. Gallaway-Rogersville Rd., Greene Co., 8,567 cu.yd. road from Union west, Franklin Co., 1,416 cu.yd. Loose Creek-Linn Rd., and 11,238 cu.yd. Linn-Mt. Sterling Rd., both in Osage Co., 2,473 cu.yd. road from Galena south, Stone Co.; 18 ft. concrete paving, etc. 47,932 sq.yd. Lamar-Jasper Rd., Barton Co., 101,460 sq.yd. Stewartsville-Cameron Rd., DeKalb Co., 21,126 sq.yd. Gallaway-Rogersville Rd., Greene Co., and 51,337 sq.yd. road from Trenton, south, Grundy Co. B. H. Piepmeier, ch. engr.

Arkansas—June 29, by State Hy. Dept., Little Rock, gravel surfacing 3.8 mi. Federal Aid Project 180-C, Craighead Co., and 3.9 mi. Federal Aid Project 213-A, Chicot Co.; grading, curbing, bridging and gravel surfacing 1.6 mi. Federal Aid Project 224-A, Ashley Co., 5.7 mi. Federal Aid Project 220-A, Craighead Co., 4.3 mi. Federal Aid Project 206-A, Arkansas Co., 2.03 mi. Federal Aid Project 214-A, Miller Co., incl. 37.49 acres clearing, 18.8 acres grubbing, etc., 5.4 mi. Federal Aid Project 201-B, Nevada Co., 12.59 acres clearing, 7.64 acres grubbing, etc., 2.6 mi. Federal Aid Project 222-A, Little River Co., 4.95 acres clearing, 2.2 acres grubbing, etc., all above 18 ft. wide. R. C. Limerick, highway engr.

Tex., Wichita Falls — July 6, by J. M. Isbell, engr., Wichita Falls, grading, bridging, bituminous brick on concrete, 1½ in. sheet asphalt on asphalt or concrete, or rein.-con. surfacing about 10 mi. Holiday-Park-Lake Rd., 18 ft. $200,000.

Okla., Oklahoma—See "Sewers."

Colorado—June 23, by State Hy. Dept., Denver, grading 1.8 mi. State Project 886, Clear Creek Co., $27,530; concrete paving, etc. 7.008 mi. Federal Aid 275-A, Douglas Co., $362,350. J. D. Blauvelt, State Office Bldg., engr.

Wash., Longview — June 23, by City Council, curbing, sidewalks and concrete paving L. I. D. 6, Highlands Addition. J. H. Davis, Longview, engr.

Wash., Port Angeles—July 2, by Comrs., Clallam Co., gravel surfacing 4.6 mi. Twin-Deep Creek Rd. F. Sullivan, Port Angeles, engr.

California—June 29, by State Hy. Comn., Sacramento, grading and widening 8.1 mi. road between Sunland and La Canada, Los Angeles Co. R. M. Morton, Forum Bldg., Sacramento, engr.

California—July 6, by State Hy. Comn., Sacramento, 10.8 mi. concrete paving and 2.3 mi. widening with concrete shoulders road between point 1½ mi. north of Oceanside and 2 mi. south of San Onofre, San Diego Co. R. M. Morton, Forum Bldg., Sacramento, state engr.

Calif., Manteca—See "Excavation, Drainage, Irrigation, Levees."

Calif., South San Francisco—July 6, by Supervs. San Mateo Co. (Redwood City), grading, curbing, sidewalks, 5 in. concrete paving 147,000 sq.ft. and 1½ in. asphaltic concrete surfacing 16,500 sq.ft. various alleys, here. G. A. Kneese, Courthouse, Redwood City, engr.

Ont., Ingersoll—June 24, by W. R. Smith, town clk., concrete or amiesite paving 19,000 sq.yd. various streets. $75,000. I. F. J. Ure & Sons, County Bldgs., Woodstock, engrs.

Ont., Wentworth—June 20, by H. A. Lumsden, engr., Courthouse, Hamilton, tar penetration paving highway from Stoney Creek, eastward, here, for Suburban Highways Comn. $40,000.

BIDS RECEIVED

New Hampshire—State Hy. Comn., State House, Concord, June 4, bituminous macadam paving 1.53 mi. highway in Rindge, 5.03 mi. highway in Hinsdale, from A. D. Bridges, Hazardville, Conn., $36,590 and $64,659 respectively, 1.33 mi. in Westmoreland, from P. C. Ricci, Burlington, Vt., $38,237; gravel surfacing 0.9 mi. in Canaan, from Arbirio Road Constr. Co., 408 Main St., Hartford, Conn., $30,090, and 1.8 mi. in Chester, from T. Watkins, Amesbury, $22,487. Noted June 4.

Mass., Boston—Dept. Pub. Wks., sheet asphalt or bitulithic paving in Johnson Rd. and Houston St., West Roxbury, Leston St., Dorchester, also Ashley, Ellsworth, Brandeen and Metcalf Sts. in East Boston.

Streets and Roads (Continued)

from H. F. Malley, 174 Hillside Ave., Roxbury, $27,268.

New York — State Hy. Dept., Albany, June 5, **(e. e. means engineers estimate)** constructing and reconstructing 6.78 mi. Highway 8216, Coventryville-Bainbridge, Chenango Co., from O. P. Williams, Saratoga Springs, $392,882, e. e. $476,091; 3.51 mi. Highway 8215, Crittenden-Corfu, and Highway 1712, Corfu Village-Allegany St., Genesee Co., from Van Dusen Lumber Corp., Corning, $128,551, e. e. $161,323; 6.48 mi. Highway 9007, Duane Center-Mountain Rd., Franklin Co., from W. L. Lawton, Inc., Glens Falls, $69,310, e. e. $86,376; 7.22 mi. Highway 8217, Little Falls-Fort Plain, Parts 2 and 3, Montgomery Co., and 2 mi. Highway 5275, Pulaski-Sandy Creek, Oswego Co., from Johnson Constr. Co., 765 Abbott Rd., Buffalo, $307,304, e. e. $358,058, and $73,-051, e. e. $82,069 respectively; 1.91 mi. Highway 1713, Penn State Line-Portville, Cattaraugus Co., from F. W. Forness, Jr., Olean, $98,992, e. e. $124,335; 1.96 mi. Highway 1710, Penn State line-Wellsburg, Chemung Co., from Frost & Lowman, Watkins, $86,236, e. e. $110,499; 4.65 mi. Highway 573, Sea Breeze-Nine Mile Point, Monroe Co., from Dale Eng. Co., Mann Bldg., Utica, $152,257, e. e. $175,896; 2.89 mi. Highway 551, Fishkill-Hughsonville, Dutchess Co., from Immick Co., State St., Meriden, Conn., $133,396, e. e. $167,917; 2.67 mi. Highway 689, Spring Valley-Knapps Corners, and Highway 5504, Dykes Crossing, Rockland Co., from Vanbro Constr. Corp., 24 Elizabeth St., West New Brighton, $115,877, e. e. $143,305; 3.45 mi. Highway 8214, Red Creek-Southwest Oswego, Part 3, Cayuga and Oswego Counties, from Spellman-Oliver Co., Chateaugay, $143,349, e. e. $170,569; 4.66 mi. Highway 295, Mohawk River-Floyd, and Highway 560, Mohawk River-Rome, Oneida Co., from H. W. Patterson, Hornell, $169,412, e. e. $214,634; 3.37 mi. Highway 1711, Aurora-Union Springs, Part 1, Cayuga Co., from Greene Constr. Co., Rochester, $149,209, e. e. $174,071; 1.01 mi. Highway 5705, Ellenville Village, Ulster Co., from J. H. McAllister, Lee, Mass., $66,292, e. e. $79,-337; 6.95 mi. Highway 5234-A, Liberty Co. line, Sullivan Co., from Fitzgerald Bros. Constr. Co., Inc., Proctor Bldg., Troy, $351,275, e. e. $409,082. Noted May 28.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, June 10, from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., asphalt paving Bay Ridge Ave. $5,767, Bedford Ave. $27,384, Colonial Rd. $15,896, East 26th St. $10,766, New York Ave. $7,887, Ave. O $6,154, Rugby Rd. $16,389, 76th St. $12,056, from Uvalde Asphalt Paving Co., 1 Bway., New York City, Bedford Ave. $20,951, Liberty Ave. $9,494; from T. V. Scott, 671 Halsey St., grading, curbing, flagging, etc. 65th St. $11,285, and Elmore Pl. $1,043; from W. J. McHale Contg. Co., 1250 Jefferson St., bituminous macadam resurfacing East 26th St. $10,-373. Noted June 4.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., June 8, grading, sidewalks, etc. in Woodhaven Blvd. from Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $203,171; granite block paving Woodhaven Blvd., from Welsh Contg. Co., 32 Queens St., Astoria, $29,129; grading and sheet asphalt paving Woodhaven Blvd., from W. P. MacDonald Constr. Co., 342 Madison Ave. New York City, $439,375 · asphalt paving Woodhaven and Jamaica Bay Blvds., from Highway Impvt. & Repair Co., 50 Church St., New York City, $208,555 and $198,315 respectively. Noted June 4.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., June 11, granite block paving West and Attorney Sts., from J. Meehan & Son, 74 Cortlandt St., $259,387 and $11,672 respectively; sheet asphalt paving Mangin St. from Uvalde Asphalt Paving Co., 1 Bway., $33 997. Noted June 4.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, June 11, concrete paving Victory Blvd., from Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $16,630.

N. Y., Troy—Bitulithic paving 5,000 ft. Oakwood Ave., from Troy Paving Co., 418 Gay Bld. St., $112,625. Engrs. est. $150,000.

Pennsylvania—State Hy. Dept., Harrisburg, June 9, **(R. means Route and A. means Application)**, rein.-con. paving 3,938 ft. R. 70, from T. W. Munro & Co., Du Bois, $50,147, 24,489 ft. R. 187, Sect. 2-B, from F. F. Hallam & Son, Fairmont, W. Va., $254,362, 18,100 ft. R. 257, A. 3174, from Tillman Constr. Co., 115 Chamber of Commerce Bldg., Chicago, Ill., and Chester, W. Va., $170,978, all foregoing in Allegheny Co., 2,843 ft. R. 69 and 71, Armstrong Co., from F. S. Wilson, Kittanning, $51,088, 8,446 ft. R. 243, Sect. 3, Beaver Co., from Rinehart Bros., East Liverpool, O., $94,992, 2,791 ft. R. 53 and 260, Blair Co., from B. L. McKillip, Hollidaysburg, $35,790, 21,120 ft. R. 221, A. 3366, Clearfield Co., from J. Weisner, 372 Chestnut St., St. Marys, $168,120, 15,688 ft. R. 92, Sect. 1, Forest Co., from Milligan & Ringler, Blairsville, $151,445, 6,401 ft. R. 29, Mifflin Co., from J. B. Trexler, Lewistown, $85,541, 9,982 ft. R. 296, A. 1636 and 3009, Susquehanna Co., from Freeland Constr. Co., Amer. Bank Bldg., Hazelton, $127,988, 5,577 ft. R. 118, A. 2844, Washington Co., from J. F. Patterson, trading as Donora Constr. Co., Meldon Ave., near 1st St., Donora, $83,139, 8,950 ft. R. 118, Sect. 3, Westmoreland Co., from Edwards-Dunn Co., Inc., 202 Coulter Bldg., Greensburg, $86,573; vitr. brick paving 375 ft. A. 3275, Carbon Co., from Du Bois Constr. Co., Du Bois, $9,316. Noted June 4.

New Jersey—State Hy. Dept., Trenton, June 8, grading Route 9, Sect. 16, Bloomsbury cutoff, Warren and Hunterdon Counties, from Richards & Gaston, Somerville, $69,977; grading and concrete paving 22,-138 sq.yd. Route 16, Sect. 5A, Somerset Co., from Graham-Van Keuren, 70 Montgomery St., Jersey City, $110,507, 25,341 sq. yd. Route 20, Sect. 3, Gloucester Co., from C. T. Cavanaugh, 32nd St., Bayonne, $102,-754. Noted May 28.

N. J., Clinton — Freeholders Hunterdon Co. (Flemington), penetration macadam resurfacing 4.1 mi. Clinton-Pittstown Rd., from W. R. Thompson, Whitehouse Station, $28,615. Noted May 14.

Delaware—State Hy. Dept., Dover, May 27, grading and concrete paving 0.97 mi. Contr. CN 26, Valley Rd. Pennsylvania line, from Stewart & Donohue, 14th and Grand Sts., Wilmington, $52,675, and 0.64 mi. Contr. CK 27, through Woodside, from W. W. Truitt, Lincoln City, $17,610; improving 8.92 mi. Contr. 53, Five Points-Waples Mill, from Hannaman-Burroughs Co., Salisbury, Md., $294,478. Noted May 7.

Maryland — State Roads Comn., Baltimore, June 2, concrete paving 2.37 mi. Contr. P-56, Prince Georges Co., from Ward & O'Connell, New Amsterdam Bldg., Baltimore, $44,818.

Md., Baltimore — Bd. Awards, concrete paving 9,000 sq.yd. Contr. 287-OA, from F. D. Carrozza, Garrett Bldg., $25,009; asphalt paving 15,330 sq.yd. Contr. 286-OANA, from P. Flanigan & Sons, Hartford Rd. and Baltimore & Ohio R.R., $75,158. Noted May 28.

Louisiana—State Hy. Comn., Reymond Bldg., Baton Rouge, May 29, constructing 11.86 mi. Logansport-Gloster Highway, De Soto Parish, from J. J. Beeson, Fullerton, $45,616, Olla-Winnfield Highway, La Salle Parish from King & Brown, Columbia, $18,766, also 8.57 mi. Ollo-Jena Highway, La Salle Parish, and bridges over Turkey Creek, from Bunta & Mutersbaugh, Lake Charles, $46,486 and $16,642 respectively. Noted May 14.

O., Brooklyn Heights (mail Independence)—Paving 6,500 sq.yd. Broadale Ave., from Baldwin Bros., 4500 Euclid Ave., brick $40,862, asphalt $37,612.

O., Cincinnati — Hamilton Co., **(e. e. means engrs. est.)** grading and tar bound macadam paving 7,867 ft. Enyart Rd., from O. E. Radabaugh, Hazelwood, $23,182, e. e. $26,523; grading and bituminous macadam paving 16,900 ft. Given Rd. from J. L. Radabaugh, Montgomery Park, Montgomery, $54,050 e. e. $57,787, 9,510 ft. Brower Rd., from J. S. Slone, 2312 Mound Ave., Norwood, $30,288 e. e. $30,468, and 6,400 ft. Rapid Run Park, from J. S. Nickoson, Sayler Park Station, Cincinnati, $27,273, e. e. $27,994. Noted June 4.

O., Marysville—Union Co., improving 9 mi. Marysville-Bellefontaine Rd., from R. Dee, Defiance, $231,115. Engrs. est. $275,000.

Ill., Belleville—Grading, curbing and concrete surfacing McClintock Ave. Paving Dist., from Midwest Eng. Co., Mt. Vernon, $67,546. Engrs. est. $80,000. Noted Mar. 26.

Wisconsin—State Hy. Comn., Madison, from Stevens Bros., 15 Piedmont Bldg., St. Paul, Minn., improving Spring Green-Wauzeka-Prairie du Chien Rd., Federal Aid Project 416-A, Crawford Co., 47,239 cu.yd. earth excav. at $0.35 per cu.yd., 2,994 cu.yd. loose rock excav. $0.75, 613 cu.yd. solid rock excav. $1.75, 23,440 cu.yd. borrow $0.35, etc., total $63,266.

Wis., Milwaukee—Dept. Pub. Wks., June 8, sheet asphalt resurfacing Marietta and National Aves., from White Constr. Co., 68 Wisconsin St., $9,180 and $9,934 respectively; Prospect Ave., from Badger Constr. Co., 97 Wisconsin Ave., $40,535. Noted June 4.

Missouri — State Hy. Dept., Jefferson City, June 5, 18 ft. concrete paving 10.815 mi. New Florence-Warren Co. Line Rd., Montgomery Co., from L. Rich Constr. Co., Harrisburg, Ill., $107,208; 9 ft. concrete paving 4.951 mi. King City-Clarksdale Rd., De Kalb Co., from Metropolitan Paving Co., 115 North 5th St., St. Joseph, $32,417; grading 4.951 mi. King City-Clarksdale Rd., De Kalb Co., from List & Hallet Constr. Co., Kansas City, $15,620; grading and 16 ft. gravel surfacing 4.944 mi. King City-Clarksdale Rd., De Kalb Co., from Western Asphalt Paving Co., 1st and Nebraska Sts., Sioux City, Ia., $16,885; 9 ft. and 18 ft. concrete paving 4.944 mi. King City-Clarksdale Rd., De Kalb Co., from C. H. Atkinson Paving Co., Watertown, S. D., $34,446; 18 ft. chat surfacing 3.758 mi. road from Nevada east, Vernon Co., from Graham Bros., Leeds, $36,429; 18 ft. concrete paving 9.28 mi. Portageville-Kansas Rd., Pemiscot Co., from J. R. Feigel Co., 1608 Gum St., Evansville, Ind., $132,451; 12.923 mi. Portageville-Arkansas Rd., Pemiscot Co., from H. H. Hall Constr. Co., Murphy Bldg., East St. Louis, Ill., $241,412; grading 10.183 mi. Portageville-Arkansas Rd., Pemiscot Co., from A. A. Davis & Co., and Johnson Bros., Grain Exch. Bldg., Oklahoma City, Okla., $35,329; grading 17.68 mi. and 18 ft. concrete paving 4.801 mi. Portageville-Arkansas Rd., Pemiscot Co., from Rouse Constr. Co., Cape Girardeau, $235,959; grading 7.312 mi. Richmond-Missouri River Rd., Ray Co., from A. L. Cosby, Leeds, $5,842; 18 ft. concrete paving 7.312 mi. Richmond-Missouri River Rd., Ray Co., from Richmond Constr. Co., Richmond, $39,132; grading 10.215 mi. New Florence-Warren Co. Rd., Montgomery Co., from Pope Constr. Co., Jefferson City, $30,-457. Noted May 28.

Arkansas—State Hy. Dept., Little Rock, May 29, improving 11.2 mi. Federal Aid Project 202-A, 18 ft., 63,439 cu.yd. excav., 0.96 acres clearing and grubbing, 21,421 cu. yd. gravel 0.6 mi. haul, 164 ft. 12- to 24-in. vitr. pipe, etc., from E. L. Terry & Co., Wilburton, Okla., $40,503.

Arkansas—State Hy. Dept., Little Rock, May 29, grading, gravel surfacing, etc. 6.25 mi. Federal Aid Project 216-A, 18 ft., from C. Pinckney, Ft. Smith, corrugated metal pipe $38,505, or rein.-con. pipe for culverts $38,585. Noted May 21.

Ark., Batesville — Grading, curbing and sheet asphalt surfacing 76,000 sq.yd. various streets in Dist. 4, from Kearney Constr. Co., Memphis, Tenn., $235,277. Engrs. est. $247,000.

Tex., Huntsville—Walker Co., May 29, grading, bridging, etc., 15.57 mi. State Highway 19, Federal Aid Project 46-B, 18 ft., from Reynolds & Sutton, Tyler, $56,000. Noted May 7.

Colo., Denver—From W. F. Pigg & Son, Commonwealth Bldg., concrete paving 12 blocks Alley Paving Dist. 129 $21,338, 12 blocks Dist. 128 $21,730, 12 blocks Dist. 127 $22,325; from J. Everett Youngs Constr. Serv., Tramway Bldg., 12 blocks Dist. 126 $23,322, 12 blocks Dist. 125 $20,-404, and 12 blocks Dist. 124 $19,477.

CONTRACTS AWARDED

New Hampshire—State Hy. Comn., State House, Concord, graveling 0.76 mi. highway in Randolph and 0.83 mi. in Colebrook, to T. Melloy, Gorham, $13,555 and $15,290 respectively, 0.71 mi. highway in Newbury, to Peckman Road Corp., Farmington, $8,387; rein.-con. surfacing 1.63 mi. highway in Concord, to Winslow & Cummings, Nashua, $52,280. Grand total $89,512. Noted June 11.

New Hampshire — F. E. Everett, comr. State Hy. Comn., Concord, bituminous macadam paving 0.57 mi. highway in Dorchester, to Robie Constr. Co., 1037 Elm St., Manchester, $12,811, and 0.8 mi. in Bethlehem, to O. W. Fernald, Berlin, $12,328; modified asphalt paving 1.87 mi. highway in Boscawen, to A. D. Bridges Sons, Hazardville, Conn., $23,706. Grand total $48,845. Noted May 28.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam surfacing 2,900 ft. highway in Barre, and 2,900 ft. highway in New Braintree, to J. Lorenzie, Leominster, $16,977 and $13,351 respectively, 8,200 ft. highway in Billerica, to Greenough Constr. Co., South Acton, $59,973; 5,150 ft. highway in Dedham, to Reynolds Bros., Inc., 179 Summer St., Boston, $29,579; bituminous concrete surfacing 16,720 ft. highway in Barnstable, to Lane Constr. Corp., Meriden, Conn., $64,200; widening with borrow 12,196 ft. highway in city of Revere and town of Saugus, to M. McDonough Co., Swampscott, $38,560. Grand total $222,640. Noted June 4.

Mass., Medford — Surfacing Middlesex Fells Parkway, from Wellington Bridge to Riverside Ave., to Rowe Contg. Co., 1215 Center St., Jamaica Plain, $20,143, engrs. est. $25,000; Middlesex Fells Parkway, Westerly Roadway Sect., to J. H. Fannon, 28 Hinckley St., Somerville, $21,850, engrs. est. $25,000. Grand total $41,993. Noted June 11.

Streets and Roads (Continued)

N. Y., Schenectady — Grading, curbing, paving and sidewalks on Erie Blvd., to Kellam & Shaffer Co., Schenectady, $129,552. Engrs. est. $150,000.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. means Application)**, to H. W. Horst Co., Rock Island, Ill., improving R. 199, Sect. 1 Schuylkill Co., 103,396 sq.yd. and 38,830 sq.yd. rein.-con. $3.15 and $3.30 per sq.yd. respectively, 56,005 cu.yd. unclassified excav. $1.68 per cu.yd., total $652,037; to General Paving Co., Allentown, A. 3283, Carbon Co., 40,385 sq.yd. rein.-con. $2.85 per sq.yd., 5,092 cu.yd. unclassified excav. $1.25, total $155,411; to M. Staub, Pitman, N. J., A. 3218, Berks Co., 40,000 sq.yd. rein.-con. $3.02, 15,328 cu.yd. unclassified excav. $1.15, 15,580 cu.yd. borrow excav. $1.20, total $190,250; to Blue Ridge Constr. Co., Inc., Uniontown, R. 325, Sect. 5, Washington Co., 35,100 sq.yd. rein.-con. $3.25, 10,330 cu.yd. unclassified excav. $1, total $150,727; to Rudolph & Delano, Tamaqua, R. 141, Schuylkill Co., 30,002 sq.yd. rein.-con. $3.12, 3,784 cu.yd. unclassified excav. $0.95, 2,688 cu.yd. borrow excav. $0.95, total $121,105; to J. C. Devine, Alliance, O., R. 294, A. 3293, Crawford Co., 21,575 sq.yd. rein.-con. $3, 35,327 cu.yd. unclassified excav. $1, 440 cu.yd. borrow excav. $1, total $134,519; to Indiana Constr. Co., Indiana, R. 63, A. 3127, Jefferson Co., 18,798 sq.yd. rein.-con. $3.46, 5,484 cu.yd. unclassified excav. $1.40, total $84,740; to C. H. Fry Constr. Co., Erie, R. 274, A. 3047, Erie Co., 48,564 sq.yd. rein.-con. $3.28, 53,000 cu.yd. unclassified excav. $1, total $276,073. Grand total $1,764,862. Noted May 14 and 28.

Pa., Mt. Carmel — Shamokin and Mt. Carmel Transit Co., concrete road, to Gannett, Seelye & Fleming Engrs., Inc., 1 North Market Sq., Harrisburg.

Pa., Pittsburgh — Repaving East Carson St., to T. Cronin Co., South 18th St., S. S. $61,320, engrs. est. $65,000; Prible Ave., to Dunn & Ryan Contr. Co., Keystone Bldg., $36,445, engrs. est. $31,000. Noted Mar. 12.

Pa., Turtle Creek (mail Pittsburgh)—Allegheny Co. (Pittsburgh) paving Lincoln Highway Bridge, here, to McManus & Potter, Wabash Bldg., $36,719. Engrs. est. $40,000.

Maryland — State Roads Comn., Baltimore, graveling 2.25 mi. Contr. CH-33, and 2.91 mi. Contr. CH-35, both Charles Co., to H. S. Swann, La Plata, $27,547 and $17,296 respectively; concrete paving 1.49 mi. Contr. Q-34, Queen Annes Co., to Highway Eng. & Contg. Co., Selbyville, Del., $34,849, and 2 mi. Contr. HO-45, Howard Co., to Ward & O'Connell, New Amsterdam Bldg., Baltimore, $67,575. Grand total $147,267.

Maryland—State Hy. Dept., Baltimore, concrete paving 1.5 mi. Contr. B-75, Baltimore Co., to H. D. Campbell & Sons Co., Towson, $44,721.

Maryland — State Hy. Dept. Baltimore, sheet asphalt paving 0.76 mi. Contr. BC-56, Baltimore Co., to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., Baltimore, $59,658; concrete paving 1 mi. Contr. S-23, Somerset Co., to Hannemann-Burroughs Co., Salisbury, $24,250; 2.37 mi. Contr. P-56, Prince Georges Co., to Ward & O'Connell, New Amsterdam Bldg., Baltimore, $44,818.

Md., Baltimore—Bd. Awards, sheet asphalt paving 11,370 sq.yd. Contr. 285-OCNA, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $54,428.

Md., Towson—Comrs. Baltimore Co., concrete paving 2.5 mi. Group 11, Dover Rd. and Worthington Ave., also Top Dark Hollow Hill and Dover Rd., to P. Reddington & Sons, 2 East Lexington St., Baltimore, $75,184.

W. Va., Fayetteville — Fayette Co., asphalt surfacing Kincaid-Kingston Rd., to W. McCormick, Salem, $96,495. Noted Apr. 23.

W. Va., Spencer — R. L. McCulty, clk. Roane Co., grading, etc., 17 mi. Smithfield Dist. Rd., to J. M. Cain & Co., Huntington, $145,340. Noted May 28.

S. C., Winnsboro—Fairfield Co., topsoiling 11.6 mi. State Project 553, to J. F. Blakenship, Greenwood, $43,310; 3.5 mi. State Route 22, Federal Aid Project 265, to J. L. Carroll, Columbia, $34,534.

Florida — State Rd. Dept., Tallahassee, clearing, grubbing, grading, etc. 10.18 mi. Project 642, Putnam Co., to B. Booth & Co., Green Cove Springs, $60,764. Noted June 11.

Alabama—State Hy. Comn., Montgomery, **(e. e. means engineers estimate)**, gravel surfacing 10.06 mi. Carrollton-Aliceville Rd., 18 ft., Pickens Co., to Finnell & Toothaker, Tuscaloosa, $103,689 e. e. $104,000, 6 mi. Union Springs-Ft. Davis Rd., 18 ft., Bullock Co., to Clay Andrews Co., Americus, Ga., $88,413 e. e. $88,500, 5 mi. Moulton Rd., 18 ft., Lawrence Co., to J. W. Gwin, Hamilton Station, Birmingham, $33,000 e. e. $33,000; sand clay surfacing 10.75 mi. Dothan-Hartford Rd., 18 ft., Houston and Geneva Counties, to J. E. Speight, Florala, $113,397 e. e. $114,000. Grand total $338,499. Noted May 21.

Ala., Birmingham — City **(e. e. means engrs. est)**, to Federal Asphalt Paving Co., Empire Bldg., asphalt surfacing 6 blocks Bush Blvd., 60 ft., $36,732 e. e. $37,000, 3 blocks 5th Ave., N, 40 ft., $19,742 e. e. $20,000, 5 blocks 1st Ave., 40 ft., $23,196 e. e. $23,200, 2 blocks street not named, 40 ft., $13,170 e. e. $13,200; to C. F. Browne, Amer. Trust Bldg., sidewalks and gutters on above streets, $9,162. Grand total $102,002.

Miss., Lauderdale—Meridian Co., grading, hardsurfacing, etc., 5.894 mi. Causeyville Rd., 18 ft., to Pilkinton Bros., Artesia, $30,262.

Miss., Pass Christian — Mayor and Bd. Aldermen, asphalt bitulithic surfacing 17,000 sq.yd. 2nd St., to Southern Paving Constr. Co., Volunteer Life Bldg., Chattanooga, Tenn., $24,480. Noted Feb. 26.

La., Baton Rouge—Grading, curbing and hardsurfacing 42 streets to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, N. C., $439,894. Noted June 4.

La., Shreveport—Grading, curbing, guttering and concrete paving 1,400 sq.yd. Clay St. to E. J. Deas Constr. Co., Shreveport, $6,611; asphaltic concrete paving, etc. 2,008 sq.yd. Carrie Bell Ave., and Uvalde rock asphalt paving, etc. 1,700 sq.yd. Taylor St., to Flenniken Constr. Co., Cahn Bldg., $6,996 and $6,253 respectively; Queens and Kings Highways to Claiborne Ave., etc., by day labor.

Tenn., Nashville—City will oil and grade Ligon Lane from Meridian St. to Lischey Ave.; macadam surface West Hill St. from 28th to 37th Aves. and 28th Ave. from Jefferson to Clifton Aves., by day labor. To exceed $25,000. W. W. Southgate, city engr.

Ohio—Dept. Highways & Pub. Wks., Columbus, to Laubis Stone Co., Kenton, grading, bridging and paving 2.358 mi. Sect. "K" Painesville-Warren Rd., Ashtabula Co., bituminous macadam, asphalt, $40,542; to J. M. Snouffer, Columbus, 0.301 mi. Sect. "Dublin" Columbus-Marysville Rd., Franklin Co., Kentucky rock asphalt, $11,512; to R. Doaust, Defiance, 5.528 mi. Sect. "L" Toledo-Angola Rd., Fulton Co., rein.-con., $146,889; 4.504 mi. Sect. "D" Marysville-Bellefontaine Rd., Union Co., rein.-con., incl. stone, $121,572, and 4.411 mi. Sect. "E" same road $109,542; to Lynn Constr. Co., Paulding, 4.065 mi. Sect. "F" Delaware-Newark Rd., Licking Co., concrete, $101,100; to Little & Fisher, Dayton, 0.552 mi. Sect. "Taylorville Dam" National Rd., Montgomery Co., concrete $25,446, and 3.08 mi. Sect. "P" same road, $93,501; to Putnam Constr. Co., Toledo, Sect. "A" Van Wert-Ottawa Rd., Van Wert Co., bituminous macadam tar, $56,224; to Neff & Bader, Circleville, 0.975 mi. Sect. "Beebles" West Union-Bainbridge Rd., Adams Co., bituminous macadam, asphalt $25,530; to J. M. Day & Co., Russellville, 0.581 mi. Sect. "Russellville" Cincinnati-West Union Rd., Brown Co., bituminous macadam asphalt, $12,672; to Buckeye Constr. Co., Fostoria, 2.277 mi. Sect. "C-1" Delaware-Newark Rd., Delaware Co., bituminous macadam, tar, $50,051; to Nugent & Riedman Bros., Harrison, 4.478 mi. Sect. "A" Dunla-Springdale Rd., Hamilton Co., concrete $174,744. Grand total $969,325. Noted May 14.

O., Alliance—Asphalt on rein.-con. paving East Bway. and sheet asphalt paving Milton St., to C. Biery, Alliance, $24,514 and $67,814 respectively. Engrs. est. $30,000 and $75,000 respectively. Noted Dec. 11.

O., Lakewood (Cleveland P. O.) — Asphaltic concrete paving Athens Ave., to Cleveland Trinidad Paving Co., The Arcade, $46,854; Margaret Ave., to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $12,905. Noted Apr. 9.

O., Marion—Marion Co., improving Prospect-Delaware Rd., to L. L. Allen, Marion, $25,701. Engrs. est. $33,660.

O., Steubenville—Concrete paving Water and State Sts., to Floto Bros. Constr. Co., Steubenville, $27,285.

Michigan — State Hy. Dept. at office Comrs. Washtenaw Co., Ann Arbor concrete paving 2.153 mi. State Trunk Line Rd. 23-13 A, and 1.189 mi. State Trunk Line 23-13 B, by day labor. A. R. Bailey, Ann Arbor, engr.

Michigan—State Hy. Dept., Lansing, will pave 3.99 mi. Federal Aid Project 146-B, Ingham Co., $131,513; pave with concrete 1,755 mi. Federal Aid Project 95-F, Lenawee Co. $45,830, 0.246 mi. Federal Aid Project 95-E, Lenawee Co. $9,177, and 1.953 mi. Federal Aid Project 95-D, Lenawee and Washtenaw Counties, $457,792, all by day labor. A. R. Bailey, Ann Arbor, engr. for latter 3 projects.

Michigan—State Hy. Dept., Lansing, concrete paving 3.106 mi. Federal Aid Project 53-13 B, Macomb Co., 40 ft., to T. E. Currie, 20 McGraw Bldg., Detroit, $227,112.

Mich., Detroit—To M. R. Hanna Co., 2700 Six Mile Rd., paving 8,247 sq.yd. Dist. 61, Hartwell Ave., incl. 1,155 ft. 12 in. sewer $28,911, 7,150 sq.yd. Dist. 67, Jonathan Ave., incl. 1,200 ft. 12 in. sewer, $25,852, 5,180 sq.yd. Dist. 70, Lois Ave., incl. 815 ft. 12 in. sewer, $18,570, 8,078 sq.yd. Dist. 71, Maple Rd., incl. 782 ft. 12 in. sewer $25,932, 8,043 sq.yd. Dist. 62, Appoline Ave., incl. 340 ft. 12 in. sewer $26,881; to United Road Constr. Co., Union Trust Bldg., 2,648 sq.yd. Dist. 63, Kingsley Ave., incl. 340 ft. 12 in. sewer $9,581, 2,564 sq.yd. Dist. 64, Emanon Ave., incl. 200 ft. 12 in. sewer $8,649, 1,828 sq.yd. Dist. 65, Castle Ave., incl. 145 ft. 12 in. sewer $6,825; to White Constr. Co., 130 North Wells St., Chicago, Ill., 9,715 sq.yd. Dist. 68, Argyle St. incl. 1,428 ft. 12 in. sewer $34,170, 9,661 ft. Dist. 69, Middlesex Ave. incl. 1,400 ft. 12 in. sewer $34,871, 6,226 sq.yd. Dist. 73, Williamson St., incl. 960 ft. 12 in. sewer $34,467; to R. A. Mercier, 5435 Wesson Ave., 3,825 sq.yd. Dist. 72, Lawson Ave. $13,523, 7,929 sq.yd. Dist. 54, Pinehurst Ave. $27,447, 1,349 sq.yd. Dist. 55, Gertrum Ave. $4,722, 11,685 sq.yd. Dist. 56, Morrow Circle $40,062, 5,670 sq.yd. Dist. 59, Bingham Ave. $20,366, 7,933 sq.yd. Dist. 60, Reuter Ave. $28,738.

Mich., Detroit—To C. L. Lincoln, 12337 Indiana Ave., grading and one course concrete paving 2,045 sq.yd. Alley 2261 $4,851, to Bishop & Weir, 1305 Lafayette Bldg., 1,525 sq.yd. Alley 2262 $3,683, 1,350 sq.yd. Alley 2263 $3,393; to J. T. Ladue, 915 Longfellow Ave., 1,350 sq.yd. Alley 2264 $3,279, 1,805 sq.yd. Alley 2271 $4,477; to McKenna Trucking Co., Detroit, 1,185 sq.yd. Alley 2265, $2,930, 1,065 sq.yd. Alley 2267 $2,506; to R. J. Powelson Co., 6415 Iroquois Ave., 1,070 sq.yd. Alley 2266 $2,681, 1,230 sq.yd. Alley 2272 $2,946, 1,210 sq.yd. Alley 2273 $2,882; to C. W. Shephard Co., 4220 Maxwell Ave., 675 sq.yd. Alley 2268 $1,739; to Otis Cement Constr. Co., 806 Hammond Bldg., 525 sq.yd. Alley 2269 $1,346.

Mich., Marshall—Paving 0.8 mi. various streets, 35 ft., to E. Couzens, Petoskey, $45,000.

Mich., Pontiac — Oakland Co., concrete paving 6.2 mi. Bloomfield Twp. Rd., to Bartting & Dull, Pontiac, $288,000; 5 mi. Maple Rd. and 7.1 mi. Clawson Rd., to R. D. Baker, 1454 Penobscot Bldg., Detroit, $212,000 and $250,000 respectively.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete surfacing 3.35 mi. Route 2, Sect. 36, McDonough Co., to Cameron, Joyce & Co., Keokuk, Ia., $66,960, 4.12 mi. Route 9, Sect. 39, Fulton Co., to Jansen & Schaefer, 212 North Cap St., Pekin, $125,497, 1.55 mi. Route 27, Sect. 18, Ogle Co., to C. E. Carson, 601 St. Clair St., Chicago, $51,051, 5.76 mi. Route 33, Sect. 7, Effingham Co., to C. J. Moritz, Inc., Effingham, $108,886, 11.86 mi. Route 41, Sect. 14, Knox Co., to Central Eng. Co., Putnam Bldg., Davenport, Ia., $303,143, 4.97 mi. Route 31, Sect. 16, Fulton Co., and 7.18 mi. Route 45, Sect. 1, La Salle Co., to Keokuk Quarry & Constr. Co., Keokuk, Ia., $89,881 and $127,435 respectively, 0.31 mi. Route 22, Sect. G-2, and 0.81 mi. Route 22, Sect. 14-W, both Will Co., to Powers Thompson Constr. Co., Joliet, $3,047 and $7,535 respectively; grading 0.39 mi. Route 8, Sect. 20-A, Iroquois Co., to Shanks & Gannon Constr. Co., Watseka, $1,807. Grand total $885,242. Noted Feb. 26 and Apr. 2.

Ill., Blue Island—Grading, curbing, concrete surfacing, etc. 16,000 sq.yd. various streets, to J. A. Sackley Co., 1621 Armitage Ave., Chicago, $65,256. Noted May 21.

Ill., East St. Louis—Grading, curbing and asphaltic concrete surfacing 7,608 sq.yd. Gray Blvd. from State to Illinois Sts., to Concord Constr. Co., Josephine Bldg., $20,700. Noted May 7.

Ill., Edwardsville — Grading, curbing, paving, etc. Myrtle Ave., to Edward Constr. Co., Edwardsville, $25,616; and paving Columbia Ave. Dist., to G. R. Hyten, Edwardsville, $3,517. Noted Feb. 26.

Ill., McHenry — Concrete surfacing, etc. 6,842 sq.yd. Elm St., to McGucken & Vander Heyden Co., 314 Fowler St., Milwaukee, Wis., $25,165. Noted May 21.

Wisconsin — Division Office 3, Nicolet Bldg., Green Bay, to Pepard-Burrill & Lynch, Minneapolis, Minn., improving Manitowoc-Sheboygan Rd., Federal Aid

Streets and Roads (Continued)

Project 420-A, Manitowoc Co., 37,773 cu. yd. earth excav. at $0.56 per cu.yd., 383 cu. yd. surface and 528 cu.yd. loose rock excav. $1.50 each, 456 cu.yd. solid rock excav. $3, 3,282 cu.yd. borrow $0.60, 800 cu.yd. channel change $0.60, 83,969 sq.yd. concrete surfacing $1.13, etc., total $150,561. Noted May 28.

Wisconsin — Office 5, Batavian Natl. Bank Bldg., La Crosse, to A. Larson Co., Eau Claire, improving Black River Falls-Augusta-Eau Claire Rd., Federal Aid Project 395-A, Sects. 1 and 2, Jackson Co., 9.34 acres clearing at $50 per acre, 10.97 acres grubbing $50, 85,240 cu.yd. earth Excav. $0.34, 905 cu.yd. loose rock excav. $0.75, 17,490 cu.yd. solid rock excav. $1.20, 8,481 cu.yd. borrow, $0.34, 160 cu.yd. channel change $0.40, 880 cu.yd. shale $0.80, 1,902 cu.yd. gravel surfacing, etc., $2.50, total $118,321; to Garnock Constr. Co., Eau Claire, grading and concrete surfacing 15,-403 sq.yd. Winona-Marshland Rd., Federal Aid Projects 340-A and 87, Buffalo Co., at $1.55 per sq.yd., total $36,043. Noted May 28.

Wis., Appleton—E. L. Williams, city clk., to Simpson-Parker Co., 318 East Franklin St., rein.-con. paving Cherry St. $29,337, Richmond St. $44,822, to Koepke Bros., College Ave., State St. $2,798, and Durkee St. $606; to White Constr. Co., 68 Wisconsin St., Milwaukee, Warrenite bitulithic concrete paving Lowe St. $51,469, Meade St. $7,989, John St. $3,442 Bateman St. $4,423; to Garvey & Weyenberg Constr. Co., 107 West College Ave., vertical fibre brick paving Drew St. $6,343. Grand total $151,228. Noted May 14.

Wis., Fond du Lac—G. Trelevan, comr. Fond du Lac Co., concrete surfacing etc. New Cassell-Dundee Rd., to L. E. Nebel Co., Sturgeon Bay, $32,449; grading and concrete surfacing, etc. 7,950 sq.yd. Marytown-St. Cloud Rd. (St. Cloud Village), to Koepke Bros., Odd Fellows Bldg., Appleton, $12,570, and 32,900 sq.yd. New Cassell-Campbellsport Rd. (Campbellsport), to F. D. Hayes, Blk., Janesville, $58,944. Noted May 21.

Minnesota — State Hy. Dept., 1246 University Ave., St. Paul, **(S. P. means State Project and F. A. P. means Federal Aid Project)**, to Hanlon & Okes, 1401 Merchants Natl. Bank Bldg., St. Paul, grading and concrete paving 54,000 sq.yd. S. P. 1-38, Div. A, F. A. P. 268, $128,779, concrete paving 86,400 sq.yd. S. P. 1-39, F. A. P. 296, $204,271, 21,500 sq.yd. S. P. 1-46 at Faribault, $48,443, to Welsh Paving Corp., 703 1st Natl. Soo Line Bldg., Minneapolis, 66,400 sq.yd. S. P. 1-40 at Fairbault $154,-005, to Grant Smith & Co., 1514 Pioneer Bldg., St. Paul, 123,300 sq.yd. S. P. 3-31, F. A. P. 283 $286,820, to W. A. Patterson & Ganley Bros, 900 Globe Bldg., 49,700 sq.yd. S. P. 336, F. A. P. 307, $116,149, to Fielding & Shepley, 216 University Ave., St. Paul, 58,000 sq.yd. S. P. 50-23, F. A. P. 306, $135,965; to Stanley Bros., St. Cloud, 240,000 cu.yd. excav. and Bridge 4378, 136 ft. long, on S. P. 6-40, Sect. 1, F. A. P. 349, $53,897; to Larson Constr. Co., Albert Lee, vibrolithic concrete paving 8,770 sq.yd. S. P. 1-49, $21,659. Grand total $1,149,988. Noted May 28.

Minn., St. Paul — H. W. Austin, city purch. agt., improving West 7th St. from Albion St.-Ft. Snelling bridge approach, etc., 27,434 sq.yd. sheet asphalt on 6 in. concrete, 2,163 sq.yd. sheet asphalt on 6 in. rein.-con., 9,562 sq.yd. sheet asphalt on 7 in. rein.-con. paving, 16,763 lin.ft. concrete curbing, etc., to Feyon Constr. Co., 277 Burgess St., oil asphalt $138,660; also improving Edgecombe Rd. from Randolph to Scheffer Sts., 7,606 lin.ft. curbing, 10,364 sq.yd. sheet asphalt and 725 sq.yd. brick paving, etc., to Hanlon & Okes, 1501 Merchants Bank Bldg., oil asphalt $43,986. Noted May 7.

Minn., Warren — A. G. Lundgren, aud. Marshall Co., **(S. A. R. means State Aid Road)** grading 81,260 cu.yd. Job 2501, S. A. R. H, to Benson Bros., Stephen, $14,-949; 78,258 cu.yd. Job 2505, S. A. R. E, to Schenkey & Moen, Middle River, $19,333; 39,899 cu.yd. Job 2506, S. A. R. M, to Johnson & Son, Middle River, $6,483; 48,-024 cu.yd. Job 2503, S. A. R. C, to Lorentson & Hallstrom, Wylie, $10,118. Grand total $50,883. Noted May 7.

Kan., Hutchinson—Grading, curbing and asphaltic concrete surfacing 8th Ave. from Plum to Pershing Sts., to Stamey-Mackey Constr. Co., Hutchinson, $20,882; and Shadduck Dr. from 2nd Ave. to city limits, to J. H. Shears & Sons, Hutchinson, $10,592. Noted May 14.

Nebraska—R. L. Cochran, highway engr., Lincoln, **(F. A. P. means Federal Aid Project)**, to P. C. Baker, Morrill, gravel surfacing 19.5 mi. F. A. P. 7-A, Nuckolls Co. $36,095, to Allied Constr. Co., 1803 Douglas St., Omaha, 18.4 mi. F. A. P. 7-B, Clay Co. $37,197, 1.1 mi. F. A. P. 210, Nuckolls Co. $2,933, 7.5 mi. F. A. P. 60-A, Howard Co. $14,852, to Lynch & Rinehart, Tourin, Ia., 12.2 mi. F. A. P. 23, Burt Co. $29,450, to Yant Constr. Co., Omaha Natl. Bank Bldg., Omaha, 15.9 mi. Plattsmouth-South Rd., F. A. P. 28, Cass Co. $39,323, 8.5 mi. Crete-Dorchester Rd., F. A. P. 98-C, Saline Co. $24,341, 2.3 mi. Seward-East Rd. F. A. P. 128-A, Seward Co. $6,450, 6 mi. Milford-Seward Rd., F. A. P. 226, Seward Co. $16,979, to Stevens Bros., 15 Piedmont Bldg., St. Paul, Minn., 8.3 mi. Ayr-Blue Hill Rd., F. A. P. 32, Adams and Webster Companies $19,814, 11.2 mi. Hastings-Ayr Rd., F. A. P. 77, Adams Co. $18,252, 8.4 mi. Dunbar-Syracuse Rd., F. A. P. 133-A, Otoe Co. $29,400, 4.2 mi. road from Madrid east and west, F. A. P. 121-A Perkins Co., $9,450, to A. A. Dobson, 809 1st Natl. Bank Bldg., Lincoln, 3.7 mi. West Point-South Rd., F. A. P. 88-A, $9,200, 2.4 mi. same road, F. A. P. 88-C $6,202, both in Cuming Co., 3.3 mi. Blair-Desoto Rd., F. A. P. 91-A, $8,170, 1.7 mi. Ft. Calhoun-South Rd., F. A. P. 91-B $4,014, 2.8 mi. same road, F. A. P. 91-C $6,631, all foregoing in Washington Co., to Koehler Lumber & Coal Co., Sterling, 12.5 mi. Fairmont-Sutton Rd., F. A. P. 171-A, Fillmore Co. $37,345, concrete paving 8.3 mi. Wymore-South Rd., F. A. P. 250-A, Gage Co., $2,185; to Central Contractors, Central City, gravel surfacing 3 mi. Harvard-East Rd., F. A. P. 182-A, Clay Co. $9,027, 5.9 mi. Holdrege-Loomis Rd., F. A. P. 251-A, Phelps Co., $12,192, to Norfolk Bridge Co., Norfolk, 6 mi. South Co. Line Rd., F. A. P. 5 $15,306, culverts, 5.2 mi. Meadow Creek Tilden Rd., F. A. P. 139-I, $2,732, both Madison Co., to Western Bridge Co., 748 Peters Trust Bldg., Omaha, gravel surfacing 6.5 mi. Benkelman-Doane Rd., F. A. P. 41, Dundy Co. $13,972, 11.3 mi. Stanton-Pilger Rd., F. A. P. 70-A, Stanton Co. $29,631, 11 mi. Wayne-South Co.-Line Rd., F. A. P. 70-B, Wayne Co. $35,291, 7.8 mi. Kearney-North Rd., F. A. P. 73, Buffalo Co. $27,225, 13.4 mi. North Loup-Ord Rd., F. A. P. 85-A, Valley Co. $40,240, 8.6 mi. Stanton-Norfolk Rd., F. A. P. 87-B, Stanton Co. $28,783, 9.4 mi. Battle Creek-Meadow Rd., F. A. P. 139-H, Madison Co. $25,682, 1.3 mi. Megeath-West Co. line Rd., F. A. P. 224-B, Keith Co. $2,189, improving 12.1 mi. Orleans-Oxford Rd., F. A. P. 240-A, Harlan Co., 762 ft. 18- to 48-in. culverts $7,575, 6,904 ft. guard rail $2,727, 370 sq. yd. paving $999, 2 bridges $9,223, improving 8.5 mi. Ainsworth-North Rd., F. A. P. 238-A, Brown Co., culverts $2,667, 3,720 ft. guard rail $1,645, 2 creosoted trestle bridges $5,244; to Houston & Son, grading 12.1 mi. above road, $18,208; to Pierce Co., c/o County Clerk, Court House, gravel surfacing 6.8 mi. Pierce South Rd., F. A. P. 64-A, Pierce Co. $23,212, to C. E. Wacker, 1431 South 9th St., Lincoln, 4.1 mi. Culvertson-East Co. Line Rd., F. A. P. 68-C, Hitchcock Co. $8,417, to Central Bridge Co., Wahoo, 11.9 mi. Crete-East Rd., F. A. P. 98-A, Lancaster Co. $35,668, 6.1 mi. Alliance-North Rd., F. A. P. 76-D, Box Butte Co. $14,608, to Reel & Kennedy Co., 8.6 mi. Oshkosh-Lytle Rd., F. A. P. 82-A, Garden Co. $16,949, to Union Constr. Co., Kearney, 1.8 mi. Overton-East Co. Line Rd., F. A. P. 231-A, Dawson Co., $4,365, to R. T. Cummings, 108.1 yd. concrete culverts on same road, $491, to Phelps Co., c/o Court House, grading 5.9 mi. Holdredge-Loomis Rd., F. A. P. 251-A, Philps Co. $4,382; to Mid State Constr. Co., Hastings, 590 ft. 18- to 30-in. culverts on same road $2,869, to Abel Constr. Co., 318 Terminal Bldg., Lincoln, 1,240 ft. guard rail on Milford-Seward Rd., F. A. P. 226, Seward Co., $744, to Metz Constr. Co., Springfield, 4,608 ft. guard rail on Wymore South Rd., F. A. P. 250-A, Gage Co. $2,459, to W. Bolen, grading 66,-200 yd. same road $16,898. Grand total $797,006. Noted May 21.

Neb., Battle Creek — Asphaltic concrete paving 13,480 sq.yd. streets in Paving Dist. 2, to Western Asphalt Paving Co., Sioux City, $36,400.

North Dakota — State Hy. Comn., and Comrs. McHenry Co., Towner, grading, etc., 11.08 mi. Federal Aid Project 274A, to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn., $47,329; improving 6.5 mi. Federal Aid Project 270A, grading to Druhl & Kemper, Minot, $15,170, concrete work, to F. M. Hass Co., Minot, $3,992. Grand total $66,491. Noted May 21.

Ark., Hughes—St. Francis Co. improving 3.92 mi. roads in Impvt. Dist. 5, 48,603 cu.yd. excav., 8,218 cu.yd. gravel surfacing 2-7 mi. haul, etc., to W. H. Denison, Cushman, $33,102. Noted May 7.

Tex., Childress—Curbing and brick on 4 in. concrete surfacing various streets, to Jordan Constr. Co., Plainview, about $250,000. Noted June 4.

Washington—State Hy. Comn., Olympia, grading, crushed gravel surfacing, etc., 7.06 mi. State Rd. 22, Stevens Co., to Owens Bros., Reardan, $38,939; crushed rock surfacing 20 mi. State Rd. 12, Lewis and Pacific Counties, to F. G. Redman, P. O. Box 482, Yakima Co., $35,494; grading, concrete paving, etc., 3.23 mi. State Rd. 12, Pacific Co., Templeton & Co., 2922 Seaboard Bldg., Everett, $86,306. Grand total $160,738. Noted May 14.

Wash., Raymond—City Comn., concrete paving Ouryea St. from 3rd to 4th Sts., to Philbrick & Nicholson, Aberdeen, $83,130.

Wash., Seattle—Bd. Pub. Wks., improving 12th Ave. S., et al., to Loveberry & Watson, 102 West Boston St., $172,911. Engrs. est. $169,787. Noted June 11.

Wash., Seattle—Comrs. King Co., concrete paving, etc., 30,217 sq.yd. Lake Burien Highway, to McHugh & Coluccio, 517 3rd Ave., $83,749. Noted May 21.

Oregon—State Hy. Comn., Salem, improving 8.5 mi. Roosevelt Highway, Lincoln Co., to Joplin & McArthur, Portland, $64,950, 0.87 mi. Roosevelt Highway, Lincoln Co., to Sydney & Newell, Portland, $17,420; crushed stone surfacing Enchanted Prairie Sect. Coos Bay Highway, Cass and Douglas Counties, to Hanes & Colby, Rosenburgh, $30,400; constructing overhead crossing on Old Oregon Trail, Cabbage Hill, Umatilla Co., to J. D. Tobin, 1024 Vancouver St., Portland, $30,730. Grand total $142,500.

Ore., Portland—To Shea & Lundstrom, Portland, concrete widening Powell Valley Rd. from East 26th to 56th Sts., 26,910 cu. yd. excav. at $0.48 per cu.yd., 37,080 sq.ft. concrete sidewalks $0.135, 41,820 sq.yd. 7 in. concrete paving, etc. $1.63, total $97,882. Engrs. est. $131,001. Noted May 7.

Ore., Portland—Multnomah Co. Comn., to Warren Constr. Co., 411 Yeon Bldg., improving 2 mi. Fairview-Gresham Rd., 4,500 cu.yd. unclassified excav. at $0.58 per cu. yd., 2,500 lin.ft. concrete curbing $0.60, 540 crushed rock shoulders in place $2.20, 7,220 sq.yd. 7 in. concrete $2.25, 2,400 sq.yd. 2 in. Warrenite bitulithic concrete $1.10, 8,260 sq.yd. 5 in. Warrenite bitulithic concrete $1.90, etc., total $42,012.

California—State Hy. Comn., 1111 Pacific Finance Bldg., Los Angeles, concrete paving 3.3 mi. road between Montebello and Whittier, Los Angeles Co., to Kuhn Bros., Manhattan Beach, $122,553. Engrs. est. $156,098. Noted May 28.

California—State Hy. Comn., Sacramento, concrete paving 3 mi. and concrete shoulder widening 2.5 mi. highway between Santa Ana River and Redlands, in San Bernardino Co., to Basich Bros. Co., 3788 South Vermont Ave., Los Angeles, $119,880. Engrs. est. $142,732.

California—State Hy. Comn., Sacramento, grading and concrete paving 3.6 mi. highway between point 2 mi. south of San Onofre and northerly boundary, San Diego Co., to R. A. Wattson, 2304 Hyperion St., Los Angeles, $119,057. Engrs. est. $139,518. Noted May 21.

Calif., Los Angeles — Los Angeles Co., grading, curbing and 6 in. concrete paving 13,435 sq.yd. Swall and Sherman Aves. between Pacific Electric Ry. and city limits, to Spencer & Holt, Frost Bldg., Los Angeles, $31,600.

Calif., Mayfield — City Trustees, 5 in. vibrolithic paving, etc., 296,000 sq.ft. various streets, to A. J. Crocker, 58 2nd St., San Francisco, $0.225 per ft., total $81,174. Noted May 28.

Calif., Oakland — City Council, grading and 2 in. Warrenite bitulithic on concrete paving 1,014,959 sq.ft. East 14th St., etc., to Oakland Paving Co., 5000 Bway., approximately $499,045. Noted June 11.

Calif., Oakland — City Council, grading, curbing, guttering, sidewalks, and oil macadam paving, 83,319 sq.ft. Redding Pl., Redding St., Kingsland and Birdsall Ave., to Central Constr. Co., Oakland Bank of Savings Bldg. Noted May 28.

Calif., Redwood City—Grading and 5 in. vibrolithic concrete paving 197,000 ft. on El Camino Real, to W. A. Dontanville, P. O. Box 65, Salinas, $54,830. Noted June 11.

Calif., San Diego—Common Council, curbing, guttering, sidewalks, and 4 in. asphaltic concrete paving 97,354 sq.yd. Couts St., Orizaba Ave., etc., to G. R. Daley, 4430 Boundary St., $25,568.

Calif., Santa Cruz—To Granite Constr. Co., Watsonville, improving Lincoln and Washington Sts., 145,459 sq.ft. grading at $0.023 sq.ft., 136,142 sq.ft. 2½ in. asphaltic macadam surfacing $0.096, etc., total approximately $25,150.

Ont., Chatham—Kent Co., concrete paving Raleigh town line, to G. Conibear, 265 St. Clair St.; Dover-Chatham town line to Cadwell Sand & Gravel Co., 228 Sandwich St., Windsor, $35,000.

Streets and Roads (Continued)

Ont., Toronto — Grading and asphaltic concrete paving 43,000 sq.yd. Boulevard Dr., to Godson Contg. Co., 203 Richmond St. W. Engrs. est. $160,000.

Ont., Toronto — To Kilmer & Barber, 10 Adelaide St. E., asphaltic concrete paving Harriett St. $2,706; to Dufferin Constr. Co., foot Bathurst St., asphalt paving Nelson Ave. $9,039, Manning Ave. $2,874, and Nassau St. $7,235; to Grant Contg. Co., 50 Front St. E., Hillside brick block paving 7th St. $6,128, concrete sidewalks on Snowden Ave., Tulles Dr., Yonge St. and Yonge Blvd.; to Constructing & Paving Co., Confederation Life Bldg., asphaltic concrete paving Inglewood Dr. $2,753; to Warren Bituminous Paving Co., 54 University Ave., bitulithic paving Herons St. $3,259; to A. Johnson, 17 Fairmount Crescent, concrete sidewalks on Jedburgh Rd., Redley and Orchards Blvd., Keystone, Moberly, Roslin and Iona Aves.; to H. Mitchell, 464 Brock Ave., concrete sidewalks on Melrose Ave. and Mt. Pleasant Rd.; to Ramsay Contg. Co., 39 Indian Rd., concrete sidewalks on Teddington Park and Lawrence Aves.; to Dept. Pub. Wks., by day labor, asphalt paving Jersey Ave. and Page St. $1,749, Laplante Ave. $1,910, Leslie St. $1,917, Mountstephen St $2,725, asphaltic concrete paving 7th St. $2,512, macadam paving Harriet St. $2,135, concrete curbing on Hirons, Page and 7th Sts., Jersey Ave., also concrete sidewalks on Brock Ave. and Humewood Dr.

Ont., Windsor—Concrete paving Campbell Ave., to Chick Contg. Co., McDougall Ave., $81,650; May Ave., Seneca St. and lane south of Essex Terminal Ry., to Premier Constr. Co., Ltd., Holland Blk., Walkerville, $15,589; Erie St. and Oak Ave., to Cadwell Sand & Gravel Co., Ltd., 228 Sandwich St. W., $24,194; lane between Victoria and Pelissier Sts. and lane between Highland and Mercer Sts., to Calouttl Bros., 612 Langlois Ave., $10,249.

B. C., Point Grey — Asphaltic concrete paving various streets, to G. B. Ledingham, Oak and Goodmurphy Sts., Vancouver, $5,065, also Cotton Co. Ltd., False Creek Yards, Vancouver, $29,936.

B. C., Vancouver — Asphaltic concrete paving various streets, to Columbia Bitulithic Co., 402 Pender St. E, $31,331; one course concrete surfacing various streets, to A. B. Palmer & Co., Vancouver Blk., $6,540.

Buildings—Industrial

PROPOSED WORK

Mass., Cambridge (Boston P. O.) — FACTORY — New England Confectionery Co., 253 Summer St., Boston, plans factory, Massachusetts Ave. and Albany St. $100,000. Lockwood, Greene & Co., 24 Federal St., Boston, engrs. Noted Oct. 23.

Mass., Dorchester (Boston P. O.)—SHOP —W. W. Drummey, archt., 60 Boylston St., Boston, making sketches 1 story, 65 x 200 ft., rein.-con. and terra cotta, Clayton St. $60,000. Owner's name withheld.

Mass., Dorchester (Sta. Boston) — REPAIR and SERVICE GARAGE—Dept. Pub. Wks., Boston, J. A. Rourke, comr., plans 1 story, rein.-con. and brick, Hancock St. Yard, here. $50,000 appropriated. Engineer and architect not selected.

Mass., Malden (Boston P. O.)—REPAIR and SERVICE GARAGE—S. Spector, 31 York Terrace, Dorchester, having sketches made by M. Kalman, 294 Washington St., Boston, 1 story, brick, Charles and Middlesex Sts. $80,000.

Conn., Watertown—POWER PLANT—Watertown Mfg. Co., had plans prepared by Fletcher-Thompson Inc., 542 Fairfield Ave., Bridgeport, 1 story, 50 x 50 ft., brick and steel addition, with 125 ft. radio brick stack. $75,000.

N. J., Orange—FACTORY, etc.—Riley & Downer, 36 William St., had plans prepared by Fletcher-Thompson, Inc., 542 Fairfield Ave., Bridgeport, Conn., 2 story, 60 x 100 ft., brick factory, 20 x 30 ft. boiler house, and 50 x 75 ft. storage building. $75,000.

Pa., Grove City—PLANT—Bessemer Gas Engine Co., plans two 1 story, 60 x 180 ft. additions. Private plans.

Va., Roanoke—PLANT—Linde Air Products Co., 30 East 42nd St., New York City, plans rein.-con. and brick plant, plain foundation. $250,000. Private plans.

Mo., Kansas City—FACTORY—Fleischmann Co., 701 Washington St., New York City, N. Y., or 608 East 10th St., here, plans 2 story and basement, 93 x 127 ft., yeast factory, brick, plain foundation, 13th and Montgomery Sts. $75,000. Private plans.

BIDS DESIRED

Mass., Newton (Ind. br. of Boston)—MANUFACTURING — United Trust, Inc., c/o Whitten & Gore, archts., 31 Milk St., Boston, taking bids reconstructing and altering present 4 story, brick commercial building into light manufacturing building, here. $40,000.

Mass., Winchester—POWER HOUSE and LAUNDRY—Winchester Hospital, Highland Ave., taking bids 1 and 2 story, rein.-con., brick and steel, plain foundation. $40,000. Kendall Taylor & Co., 142 Berkley St., Boston, archts.

N. J., Camden — PLANT — Armstrong Cork Co., foot Jefferson St. W., will build 4 story and basement, 72 x 74 ft., brick and steel plant, plain foundation, $80,000. Work will be done by separate contracts. Private plans.

Mich., Detroit—SHOP—A. Kahn, archt., 1000 Marquette Bldg., taking bids and open same about June 20, 1 story, 63 x 480 ft., rein.-con. and brick, plain foundation, Connors Ave., for Hudson Motor Car Co., 12601 East Jefferson Ave.

Wis., Sheboygan—FACTORY—June 25, by W. C. Weeks, archt., 720 Ontario St., 2 story and basement, 44 x 135 ft., brick and steel, plain foundation, South 14th St., for H. J. Holman & Sons, 1716 Calumet Dr. $40,000.

Mo., St. Louis—PLANT—Century Electric Co., 19th and Pine Sts., will build 2 story and basement, 69 x 75 ft., rein.-con. and brick addition, Olive St. Work will be done by separate contracts under supervision of L. Pendleton, archt., 119 North 7th St. $70,000.

Calif., Oakland — PLANT — Natl. Ice Cream Co., 371 Guerrero St., San Francisco, taking bids ice cream plant, rein.-con., 3rd and Cypress Sts. $40,000. Private plans.

Calif., San Francisco—FACTORY—Ashley & Evers, 58 Sutter St., archts., taking bids 2 story, 50 x 150 ft., concrete, Fremont St., for the Phila. Storage Battery Co., 37 Spear St. $50,000. Noted May 21.

CONTRACTS AWARDED

Mass., Boston—MARKET—Swift & Co., 60 North Market St., 5 story and basement market, Market St., to J. W. Ferguson, 152 Market St., Newark, N. J. Archts. est. $200,000.

Mass., Cambridge (Boston P. O.)—REPAIR and SERVICE GARAGE—Dunster Realty Co., c/o E. B. Stratton, archt., 25 Arch St., Boston, 1 story, 70 x 100 ft., rein.-con. and brick addition, Mt. Auburn and Boylston Sts., here, to Cantor Constr. Co., 6 Beacon St., Boston. Archts. est. $60,000. This corrects report in May 28 issue.

Mass., Lynn—REPAIR SHOP—Central Motors Co., 20 Mt. Vernon St., 2 story and basement, 50 x 60 ft., rein.-con. and brick, to Capobianco Constr. Co., 46 Cornhill St., Boston. Archts. est. $60,000.

Conn., Allingtown (mail New Haven)—REPAIR and SERVICE GARAGE—Mack Co., 1 story, 115 x 160 ft., brick and steel addition, to Larkin-Carey Co., 166 Brewery St. Archts. est. $100,000.

Conn., Wallingford—FACTORY—International Silver Co., East Center St., 2 story addition to examining department, and 1 story (ultimately 3 story), 40 x 130 ft., rein.-con. and brick machine shop, to Immick Co., State St., Meriden, about $100,000.

N. Y., Buffalo—FACTORY—Chase Bag Co., Buffalo, and 4 North Main St., St. Louis, Mo., 2 story, 180 x 300 ft., concrete, brick and steel, to Austin Co., 16112 Euclid Ave., Cleveland, O. Archts. est. $150,000.

N. Y., Livingston—BOILER HOUSE—Staten Island Corp., St. George, extending boiler house, boilers, etc., here, to J. G. White Corp., 43 Exch. Pl., New York City.

Pa., Brownsville—SHOPS—Monongahela R.R. Co., Brownsville, 1 story, 250 x 250 ft. machine and car shops, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $100,000.

Pa., Lewiston — SHOP — Ballinger Co., archts., 12th and Chestnut Sts., Phila., 1 story, 111 x 148 ft. machine and carpenter shop, brick and steel, on Juniata River, here, to R. S. Shoemaker, Harrisburg, for the Viscose Co., Marcus Hook. Noted June 4.

Pa., Phila.—PLANT—J. N. Gill Contg. Co., (archt. and contractor), City Center Bldg., will build 2 story and basement, brick, plain foundation, 27th and Bainbridge Sts. Owner's name withheld.

Md., Baltimore—PLANT—L. H. Rettberg, Inc., 2823 Pennsylvania Ave., 2 story, 150 x 300 ft., rein.-con. and brick, plain foundation, 6th St. south of Wilkens Ave., to North-Eastern Constr. Co., Lexington Bldg., $150,000.

Tenn., Jackson — SHOPS, etc. — Mobile & Ohio R.R. Co., Fullerton Bldg., St. Louis, Mo., 2nd Unit of shops, etc., incl. 78 x 375 ft. shop, 75 x 375 ft. and 50 x 375 ft. machine shops, 75 x 154 ft. boiler shop, 50 x 150 ft blacksmith shop, 75 x 78 ft. tank shop and 50 x 75 ft. wheel shop, etc., all at Iselin, near here, to Dwight P. Robinson & Co., 125 East 46th St., New York City, $1,250,000.

O., Cincinnati—GARAGE and REPAIR SHOP—Times-Star Newspaper Co., 6th and Walnut Sts., 3 story and basement, 55 x [illegible] ft. and 30 x 47 ft., rein.-con. and brick, Central Ave. and Perry St., to M. J. Roche Constr. Co., Southern Ohio Bank Bldg., $120,000. Archts. est. $125,000.

O., Cleveland—FACTORY, etc.—Perfection Co., c/o A. Sogg, archt., 3030 Euclid Ave., 2 story and basement, 6[illegible] x 140 ft. brick and steel factory and office building, East 40th St., to J. Meckler, 9602 Adams Ave. Archts. est. $100,000. Noted Feb. 5.

O., Cleveland — FURNACE ROOM — Economy Fixture Co., T. McWeeny, vice pres., 5408 Bragg Rd., 1 and 2 story, 32 x 67 ft., brick, steel and concrete addition, to J. Bakhala, 10000 Euclid Bldg. Archts. est. $40,000. Noted May 7.

Wis., Milwaukee—PLANT—Brumder Estate, 105 Wells St., 3 story and basement, 52 x 150 ft. newspaper plant, brick and concrete, plain foundation, 7th St., to Universal Constr. Co., 915 Chestnut St. Archts. est. $100,000.

Kan., Winfield—FREIGHT STATION—See "Buildings—Commercial."

Mo., Kansas City — BAKERY — Alan Stuart Co., c/o De Foe & Besecke, archts., 1704 Baltimore Ave., general contract 1 story and basement, 109 x 160 ft., rein.-con. and brick, 9th and Campbell Sts., to B. L. Hoffman, 223 East 9th St.

Mo., St. Louis — PLANT — Pauly Jail Building Co., 2215 South DeKalb St., 1 and 2 story and basement, 124 x 146 ft., rein.-con. and brick, 2218-24 South 2nd St., to Voelpel Building Co., 1113 Sidney St. Archts. est. $50,000.

Buildings—Commercial

PROPOSED WORK

Me., Biddeford — NURSES HOME — Webber Hospital, E. H. Goldthwaite, chn., com., having plans prepared by H. S. Coombs, 11 Lisbon St., Lewiston, 2 story, brick and stone, Elm St. $150,000.

Mass., Boston — APARTMENT — Myles Standish, Inc., c/o J. S. Draper, 209 Washington St., having plans prepared by A. W. Bowditch, 44 Bromfield St., 9 story and basement, 285 x 305 ft., rein.-con. and limestone, Beacon St. and Bay State Rd. To exceed $150,000.

Mass., Boston — APARTMENT — One Hundred Thirty-Seven Marlboro St., Inc., c/o Goggin & Ripley, Inc., 350 Madison Ave., New York City, having plans prepared by Bigelow & Wadsworth, 120 Tremont St., 10 story and basement, 4,600 ft. floor space, brick and limestone, 137 Marlboro St. $250,000. Noted Apr. 30.

Mass., Boston—FIRE STATION—Fire Dept., 61 Bristol St., having sketches made by L. J. St. Amand, 14 Beacon St., 3 story and basement, 40 x 85 x 90 ft., brick, Tremont St. and Shawmut Ave. $350,000 appropriated. Noted Apr. 9.

Mass., Boston — GARAGE — Syndicate, c/o R. M. Robbins, 209 Washington St., will not construct 7 story and basement, 11,500 sq.ft. floor space, rein.-con. brick, and steel, Bowdoin St. Archt. est. $350,000. Project abandoned. Noted Dec. 18.

Mass., Boston—HOTEL—J. R. Whipple Corp., c/o C. M. Hart, pres., Hotel Touraine, having sketches made by Desmond & Lord, 1 Beacon St., 10 or 11 story, School and Tremont Sts. $1,000,000.

Mass., Somerville (br. of Boston) — THEATRE—A. F. Viano, 19 Pauline St., having preliminary sketches made by J. A. Quirk, 61 Court St., Boston, 1 story, brick, Elm St. $150,000.

N. Y., Buffalo—Y. W. C. A., c/o E. P. Luffer, Y. W. C. A. Bldg., Mohawk St., having preliminary plans prepared by Hudson & Hudson, Dun Bldg., 100 x 125 ft., rein.-con., brick and steel, Worth St. $250,000.

N. Y., Coney Island (Brooklyn P. O.) — HOTEL—Amer. Hotel Co., 25 West 45th St., New York City, takes bids about July 23, 17 story, brick, steel and stone, plain foundation, Boardwalk and 29th St., here. G. B. Post & Sons, 101 Park Ave., New York City, archts. and engrs. Noted Apr. 2.

N. Y., New York—APARTMENT—Clark Place Constr. Co., c/o J. M. Felson, archt. and engr., 250 West 57th St., having plans prepared 6 story, brick, steel and stone, plain foundation, Beck St. $500,000.

N. Y., New York—APARTMENT—J. M. Felson, engr. and archt., 250 West 57th St., preparing plans 15 story, brick, steel and stone, plain foundation, 93rd St. and Bway. $1,500,000. Owner's name withheld.

N. Y., New York—APARTMENT—One Hundred Sixty-Eight East 74th St. Corp., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., having plans prepared 9 story, brick, steel and stone, plain foundation, 172 East 74th St.

Buildings—Commercial (Continued)

N. Y., New York — APARTMENT — Ludins Bros., 1349 Jerome Ave., plan 100 x 235 ft., brick, steel and stone, plain foundation, Walton Ave. and 165th St. Engineer and architect not selected.

N. Y., New York—BANK and OFFICE—M. M. Natanson, 522 5th Ave., having plans prepared by H. Craig Severance, 36 West 44th St., 30 story, brick, steel and stone, plain foundation, 44th St. and 5th Ave. $4,000,000.

N. Y., New York—HOTEL—A. Heckscher, 50 East 42nd St., having plans prepared by Maynicke & Franke, archts. and engrs., 25 East 26th St., 15 story, 100 x 185 ft., brick, steel and stone, plain foundation, Park Ave. and 56th St. $3,000,000.

N. Y., New York—LOFT—Five Hundred Nineteen 8th Ave. Corp., c/o G. and E. Blum, archts. and engrs., 505 5th Ave., having plans prepared 24 story, 118 x 120 ft., brick, steel and stone, plain foundation, 8th Ave. and 56th St. $1,500,000.

N. Y., New York—OFFICE—John Gold Realty Corp., c/o Buchman & Kahn, archts. and engrs., 49 West 45th St., having plans prepared 24 story, brick, steel and stone, plain foundation, John, Gold and Platt Sts. $4,000,000.

N. Y., New York — OFFICE — Silvers Lunch Stores Corp., c/o B. H. Winston, archt., 41 West 33rd St., having plans prepared brick, steel and stone, plain foundation, 717 7th Ave. $200,000.

Pa., Phila. — OFFICE — Pennsylvania R. R., Broad St. Sta., having plans prepared by Graham, Anderson Probst & White, Railroad Exch. Bldg., Chicago, Ill., 14 story, basement, and tower, 150 x 250 ft., brick and steel, plain foundation, 32nd St. and Lancaster Ave. $3,300,000.

Fla., Tampa—HOTEL—Tampa Commercial Constr. Co., now being organized by A. J. Simms & Co., Citrus Exch. Bldg., having plans prepared by F. J. Kennard & Son, Krause Bldg., constructing Hotel Floridan, 15 story and basement, 105 x 105 ft., Florida and Cass St. $1,100,000.

Fla., Tampa—OFFICE—J. A. Crenshaw, 311 7th Ave., plans 15 to 20 story hotel, Tampa and Washington Sts. $1,000,000.

O., Youngstown — THEATRE — State Amusement Co., West Federal St., plans theatre, 2,000 seating capacity, West Federal St. $750,000-$1,000,000.

Ill., Peoria—WAREHOUSE, etc.—L. B. Portman & Co., Kansas City, Mo., having plans prepared by B. L. Hulsebus, 1232 Jefferson Bldg., 7 story and basement, 180,000 sq.ft. floor space, rein.-con., brick and steel warehouse and storage plant, plain foundation, North Washington and Jackson Sts. $500,000. Engineer not selected.

Okla., Walters—COURT HOUSE—Cotton Co. postponed opening of bids indefinitely for 3 story and basement, 74 x 90 ft., rein.-con., brick and stone court house. Tonini & Bramblett, 416½ West Main St., Oklahoma City, archts. Noted Apr. 23.

Colo., Denver—OFFICE—Continental Oil Co., Continental Oil Bldg., having plans prepared by W. U. Bowman, Wyoming Bldg., 10 or 14 story office building, 18th and Glenarm Sts. $1,000,000.

Ore., Portland—HOTEL—Portland Hotel Co., 6th and Morrison Sts., plans 12 story, basement and sub-basement, 200 x 200 ft., rein.-con. hotel, 5th, 6th, Yamhill and Stark Sts. $2,000,000.

BIDS DESIRED

Me., Bangor—HOME—June 24, by Eastern Maine General Hospital, 4 story and basement, 65 x 140 ft., nurses home, brick and steel, State St. $250,000. Coolidge & Carlson, 89 State St., Boston, Mass., archts.

Mass., Brighton (Boston P. O.)—COURT HOUSE—June 23, by Dept. Pub. Buildings, 1 story and basement, 80 x 200 ft., rein.-con., granite and limestone, Chestnut Hill Ave. and Academy Hill Rd. $225,000. O'Connell & Shaw, 154 Newbury St., Boston, archts. Former bids rejected. Noted June 4.

Mass., Cambridge (Boston P. O.)—OFFICE and STORE—Manufacturers Natl. Bank, Kendall Sq., taking bids 5 story, 52 x 127 ft., rein.-con., brick and stone, plain foundation, also 2 story top addition to present 3 story building. To exceed $150,000. G. Robb, 15 Exchange St., Boston, archt. Noted Feb. 12.

Conn., East Hartford — OFFICE, etc. — June 19, by Economy Grocery Co., 85 South Leonard St., 2 story, 50 x 200 ft., brick office and manufacturing building, 1 story, 200 x 315 ft., brick and timber warehouse, 1 story, 55 x 125 ft., rein.-con. and steel garage, and 25 x 40 ft., brick boiler house, Park Ave. $225,000. Buck & Sheldon, 60 Prospect St., Hartford, archts.

Conn., Waterbury—OFFICE, etc.—June 20, by Connecticut Co., West Main St., 2 story and basement, 50 x 120 ft., brick and steel office, stack 85 ft. high, etc., West Main St. $150,000. R. W. Foote, 185 Church St., New Haven, archt.

N. Y., Beacon—HOSPITAL—June 29, by J. L. Long, supt. Prisons, Capitol, Albany, constructing, heating, sanitary and electric work, hospital, kitchen and dining room buildings (new group), also addition to main group, Mattewan State Hospital, here. S. W. Jones, Capitol, Albany, archt.; adv. E. N.-R. June 18.

N. Y., Creedmoor (Jamaica P. O.)—HOSPITAL—June 30, by State Hospital Comn., Albany, constructing Buildings A. B. C. H. I. K. L. M. N. T. X. Y. EE. FF. HH. etc. S. W. Jones, state archt.; adv. E. N.-R. June 18.

N. Y., New York—APARTMENT—Lustig & Weil, 103 Park Ave., (owners and builders), will build 9 story, brick, steel and stone, plain foundation, 206 West 78th St. $600,000. Work will be done by separate contracts. Private plans.

N. Y., New York — HOTEL — Lapidus Eng. Co. (owner and builder) 103 Park Ave., will build brick, steel and stone, plain foundation, 21-39 West 73rd St. $3,000,000. Work will be done by separate contracts. Private plans. This corrects report in June 11 issue.

Pa., Johnstown — THEATRE, OFFICE and STORE—July 13, by A. Notopoulos, 1106 11th Ave., Altoona, 3 story and basement, 110 x 130 ft., concrete and steel, Main St. $400,000.

Pa., Mt. Airy — APARTMENT — P. W. Lark, Commercial Trust Co., Phila., will build 3 story and basement, 39 x 130 ft. brick, plain foundation, 212-13 Highland Ave. $150,000. Work will be done by separate contracts. H. H. Weldon, 1817 Callowhill St., Phila., archts.

Pa., New Castle—POOR HOUSE—June 22, by Comrs. Lawrence Co., and A. L. Thayer, archt., 1207 Delaware Ave., 2 and 3 story and basement, 2 wing poor house. $250,000. Noted Apr. 9.

Pa., Phila.—APARTMENT—June 22, by Lippincott & Schaef, archts., 11 South 16th St., 4 story and basement, 40 x 148 ft., and 48 x 90 ft., brick and steel, plain foundation, 63rd and Lebanon Sts., for W. A. Brady, c/o architects. Archts. est. $500,000. Noted May 14.

O., Cleveland — STORE and APARTMENT—Gordon & Mason, 11414 Temblett Ave., taking bids 3 story, 128 x 134 ft., brick and steel, East 105th St. and Temblett Ave. $175,000. L. Skolnik, Auditorium Garage Bldg., archt.

Ill., Waukegan—BANK and OFFICE—June 22, by W. G. Uffendell, archt., 39 South State St., Chicago, 3 story and basement, 66 x 70 ft., concrete, brick, steel and stone, plain foundation, here, for Security Savings Bank, 241 Washington St. $200,000.

Wis., Milwaukee—THEATRE—June 24, by A. H. Kienappel, archt., 445 Milwaukee St., 2 story and basement, 62 x 90 ft., and 60 x 210 ft., brick and concrete, plain foundation, 8th Ave., for A. H. Bartelt, 1250 8th Ave. $150,000. Noted May 21.

Kan., Dodge City—HOSPITAL—June 22, by Schmidt, Boucher & Overend, archts., 4th Natl. Bldg., Wichita, 2 and 3 story and basement, 46 x 144 ft. with 33 x 39 ft. extension, 53 x 59 ft. boiler house, and 47 x 99 ft. nurses home, rein.-con., brick and stone, here, for Sisters of St. Joseph. $150,000.

Tex., Hillsboro — HOTEL — A. Fraser, archt., 916 Littlefield Bldg., Austin, taking bids 4 story and basement, 51 x 112 ft., rein.-con. and stone, South Waco and Walnut Sts., here, for T. A. Johnson, Hillsboro, $150,000. Noted Jan. 29.

Tex., Houston—OFFICE—A. C. Bossom, archt., 680 5th Ave., New York City, N. Y., and M. J. Sullivan, Briscoe & Dixon, associated archts., 2nd Natl. Bank Bldg., taking bids 16 or 20 story rein.-con., brick and stone, Texas Ave., and Austin St., here, for Petroleum Building Co., c/o T. P. Lee, pres., 1405 2nd Natl. Bank Bldg. $1,250,000.

Calif., Los Angeles—HOTEL and STORE—Hayward Hotel, Spring and 6th Sts., H. C. Fryman, proprietor, taking bids 14 story and basement, 60 x 82 ft., rein.-con. hotel and store building, 5th St. near Spring St. $600,000. J. and D. B. Parkinson, 420 Title Insurance Bldg., archts. Apr. 9.

Calif., Los Angeles—LOFT—Harris Newmark Estate, c/o Curlett & Beelman, archts., 408 Union Bank Bldg., taking bids 12 story and basement, 140 x 160 ft., rein.-con., 9th and Los Angeles Sts. $650,000. Noted Apr. 23.

Calif., San Francisco—CLUB—C. Werner, archt., Santa Fe Bldg., taking bids 8 story and basement, Class A, The Embarcadero, for the Y. M. C. A., Golden Gate Ave. and Leavenworth St. $750,000.

BIDS RECEIVED

Calif, Los Angeles—CLUB—Turnverein Germania, c/o J. P. Krempel & W. E. Erkes, archts., Bradbury Bldg., general contract 2 story, 114 x 265 ft., Washington St. near Toberman St., from Winter Constr. Co., 2400 West 7th St., Los Angeles, $177,865. Noted May 28.

CONTRACTS AWARDED

N. H., Concord—BANK and OFFICE—New Hampshire Savings Bank, North Main St., 5 story and basement, brick, plain foundation, North Main St., to H. P. Cummings Constr. Co., 14 Prospect St., Ware. Archts. est. $150,000. Noted Apr. 30.

Mass., Lowell—CLUB—Y. M. C. U., c/o Immaculate Conception Parish, L. J. Tighe, pastor, 3 story and basement, 55 x 110 ft., brick and stone, plain foundation, Brown and Stackpole Sts., to H. F. Meloy, 621 Wyman's Exch. Bldg. Archts. est. $150,000. Noted Apr. 23.

Mass., Northampton — HOME — White Eagles Home Assn., Inc., c/o J. W. Sliwa & Co., archts., 56 Main St., 3 story and basement, 75 x 80 ft., brick and stone, Strong Ave. and Pearl St., to Schnarl Constr. Corp., 318 Main St., Springfield. Archts. est. $150,000. Noted May 14.

Mass., South Braintree (Ind. br. of Boston)—BANK—Braintree Savings Bank, L. B. Hollis, pres., 2 story and basement, rein.-con., brick, stone and steel, Washington St., to R. H. Howes Constr. Co., Park Sq. Bldg., Boston. Archts. est. $150,000. Noted May 28.

Mass., Winthrop — —COMMUNITY — Congregation Tiffereth Israel, Shirley St., 2 story and basement, 70 x 100 ft., brick, Shirley St., to Murray Wise, 113 Staniford St., Boston. Archts. est. $150,000.

Conn., Hartford—APARTMENT—Joseph St. Laurent, 1026 Main St., will build 4 story, 35 x 165 ft., brick and steel, plain foundation, Wethersfield Ave., by day labor. $150,000. Private plans.

Conn., Hartford—OFFICE—Ferrigno & Perrone, (owners and contractors), 44 Garden St., will build 6 story, 109 x 200 ft., rein.-con., brick and steel, Asylum and High Sts. $2,000,000. T. W. Lamb, 644 8th Ave., New York City, archt.

Conn., Hartford—SOCIAL—I. O. O. F. Society, 3 story, 44 x 188 ft., rein.-con. and brick social building, Main St., to Wise & Upson, 36 Pearl St., about $250,000. Noted June 4.

Conn., Hartford—STORE and OFFICE—T. W. Donaghue, c/o R. W. Foote, 185 Church St., New Haven, 4 story and basement, 75 x 100 ft., brick and terra cotta, to Wales-Lines Co., 134 State St., Meriden. Archts. est. to exceed $150,000.

N. J., Newark — BANK and OFFICE — Federal Trust Co., 740 Broad St., 18 story, brick, steel and stone, plain foundation, Commerce and Broad Sts., to Pub. Service Co., Terminal Bldg. Archts. est. $1,250,000. Noted May 7.

Pa., Altoona—CITY HALL—City, E. F. Giles, mayor, general contract 3 story and basement, 90 x 120 ft., brick, stone and steel, 13th Ave., to A. W. Funk & Co., Altoona, $234,362. Noted June 4.

Pa., Bethlehem—BANK—Ritter & Shay, archts., Packard Bldg., Phila., 1 story and basement, 60 x 134 ft., brick, plain foundation, Broad and Guetter Sts., here, to H. E. Stoudt, Bethlehem, for Lehigh Valley Natl. Bank. Noted Apr. 30.

Del., Dover—HOSPITAL—F. R. Watson, archt., 1211 Walnut St., Phila., Pa., 3 story and basement, 40 x 135 ft., brick and steel, plain foundation, to Bennett McLaughlin Co., 3260 Ludlow St., Phila., for Kent General Hospital. Noted May 28.

Pa., Phila. — APARTMENT — J. L. Cochrane, c/o J. F. Clark, archt., 23 South 16th St., 4 story and basement, 50 x 178 ft., brick, plain foundation, 36th and Powelbin Sts., to Franklin Constr. Co., 23 South 16th St. Archts. est. $200,000.

Pa., Phila. — GARAGE — Shotz & Co., Juniper and Walnut Sts., 1 story, 112 x 243 ft., brick and steel, plain foundation, York Rd. and Ruscomb St., to Schecter & Levitt, 6th St., and 66th Ave. Archts. est. $150,000.

Pa., Pittsburgh—BANK and OFFICE—Bloomfield Trust Co., 4740 Liberty Ave., general contract 2 story and basement, 111 x 126 ft. bank and office building, to A. and S. Wilson Co., 541 3rd Ave., Pittsburgh. Archts. est. $200,000. Noted May 14.

Pa., Reading — APARTMENT — W. A. Rigg, Colonial Trust Bldg., 4 story and basement, 60 x 220 ft., brick, to Fink Constr. Co., 510 Walnut St., Phila. Archts. est. $330,000. Noted Feb. 19.

Fla., Lakeland—HOSPITAL—City, hospital, to Artley Co., Masonic Bldg., Savannah, Ga., and Bradentown, $238,748.

Fla., Lakeland—OFFICE—E. J. Sparks Enterprises, Inc., 10 story and basement, 50 x 122 ft., Kentucky Ave. and Lemon St., to G. A. Miller, 28 Petteway Bldg., Tampa, $450,000. Noted Apr. 16.

Fla., Tampa — APARTMENT — D. P. Davis Properties, Inc., 6 story apartment

Buildings—Commercial (Continued)

and Venetian Apartments, on Davis Island Blvd., to Island Constr. Co., c/o owner, $750,000 and $200,000 respectively.

Fla., Tampa — AUDITORIUM — City, auditorium, incl. loft for dramatic stage, to McDavitt-Fleming Co., Tampa, $250,214. Noted May 28.

Fla., Winter Haven — HOTEL — Lake Region Hotel Co., H. B. Babson, pres., hotel at 5th and Lake Sts., to Seymore & Craig, Winter Haven, $200,000.

O., Canton—STORE—North Market Ave. Realty Co., Market Ave. N., 2 story and basement, 66 x 200 ft., brick and steel, High Ave. and West Tuscarawas St., to E. H. Walker, Zinninger Bldg., $150,000.

O., East Liverpool—MERCANTILE—T. V. Milligan Hardware & Supply Co., 5th St., 3 story, 46 x 130 ft., concrete, 5th St. E., to H. K. Ferguson Co., 3239 East 82nd St., Cleveland, $150,000. Noted Apr. 2.

Mich., Detroit—MERCANTILE—Detroit Trust Co., 201 West Fort St., 8 story and basement, about 40 x 120 ft., and 1 story addition to present building, rein.-con., brick and steel, plain foundation, Woodward Ave., to A. A. Albrecht Co., 1130 Penobscot Bldg. Archts. est. about $300,000.

Ill., Peoria — APARTMENT — F. Gray, 1226 Seneca Pl., 3 story and basement, 92 x 162 ft., rein.-con., brick, steel and stone, plain foundation, 918 Hamilton Blvd., to Gray Constr. Co., 116 Fayette St., $250,000.

Ill., Peoria—HOSPITAL—Methodist Hospital of Central Illinois, 6 story and basement, 80 x 130 ft., stone, brick, and concrete, Glen Oak St., to W. Eller & Sons, Peoria. Archts. est. $350,000. Noted Apr. 16.

Wis., Milwaukee—APARTMENT—C. J. Keller & Son, archts., 432 Bway., 3 story, 40 x 142 ft., brick and tile, plain foundation, 15th St., to Raulf Co., 428 Grand Ave., for I. H. Benesch Co., 513 Van Buren St. Archts. est. $150,000. Noted May 28.

Wis., Milwaukee—APARTMENT—W. J. Kozick, archt., 664 24th St., 4 story and basement, 47 x 131 ft., brick and steel, plain foundation, 15th St., to E. Steigerwald & Sons, 51st and State Sts., for O. F. Priebe Realty Co., 3501 Highland Blvd. Archts. est. $150,000. Noted May 28.

Wis., Milwaukee — THEATRE, STORE and OFFICE—Dick & Bauer, archts., 811 State St., 2 story and basement, 86 x 88 ft., and 102 x 150 ft., brick, steel and concrete, plain foundation, Wells and 27th Sts., to H. Schmitt & Son, 430 Farwell Ave., for Mal Investment Co., 376 East Water St. $500,000. Noted May 14.

Minn., Minneapolis — APARTMENT — Calhoun Beach Holding Co., H. S. Goldie, 929 Plymouth Bldg., general contract two 3 story and basement, 64 x 113 ft., rein.-con., brick and stone, West Lake St. and Dean Blvd., to Fleischer Eng. & Constr. Co., 306 Lumber Exch. Bldg., about $230,000.

Kan., Winfield—STATION, etc.—Atchison, Topeka & Santa Fe R.R. Co., Railway Exch. Bldg., Chicago, general contract 32 x 54 ft. passenger station, 30 x 160 ft. freight station, and 20 x 230 ft. platform, rein.-con. and brick, to Swanson Bros. Constr. Co., 207 Broodmore, Topeka.

S. D., Miller—COURT HOUSE—P. H. Walsh, aud. Hard Co., 3 story and basement, rein.-con., brick and stone courthouse, to Currie Constr. Co., Waterloo, Ia., $184,764. Noted May 14.

Mo., Kansas City—APARTMENT—J. H. Wood, pres. Northeast Building Co., 335 North Van Brunt Blvd., will build 5 story and basement, 50 x 125 ft., rein.-con., plain foundation, 1509 Wyndotte St., by day labor, $250,000. G. F. Greene, 429 Rialto Bldg., archt. Noted Apr. 23.

Mo., Kansas City—DANCE HALL—E. Kuhn, 12 Gayety Bldg., general contract 1 story (ultimately 8 story) and basement, 155 x 196 ft., rein.-con., brick and terra cotta, McGee and 23rd Sts., to Patti Constr. Co., 411 Jenkins Bldg. Archts. est. to exceed $150,000. Noted June 11.

Mo., Kansas City—OFFICE and WAREHOUSE—Commercial Structures, c/o F. H. Petts, 615 Continental Bldg., will build 6 story and basement, 50 x 100 ft., rein.-con., plain foundation, Main St., by day labor. $150,000. G. F. Green, 429 Rialto Bldg., archt.

Mo., St. Louis—OFFICE—Local Syndicate, c/o I. T. Cook & Co., Arcade Bldg., 18 story and basement, 60 x 80 ft., rein.-con., brick and steel, 4th and Locust Sts., to Seldon Breck Constr. Co., Fullerton Bldg. $1,000,000. This corrects report in Feb. 19 issue.

Mo., St. Louis — STORE and WAREHOUSE—F. Lind Grocer Co. will rebuild 7 story and basement, 76 x 101 ft., rein.-con. and brick, 7th and Lucas Aves., by day labor, under supervision of Brussel & Viterbo, 1630 Arcade Bldg., engrs.

Tex., Dallas—APARTMENT—H. Finley, Wichita Falls, 6 story, 77 x 117 ft., rein.-con., brick and stone, Pocahontas and Ervay Sts., here, to L. H. Lacy & Co., 2632 Swiss Ave., approximately $150,000.

Tex., Ft. Worth — HOSPITAL — All Saints Hospital, 52 Jennings Ave., 3 story and basement, rein.-con., brick and stone, 8th Ave. and Magnolia Sts., to T. S. Byrne, Ft. Worth Natl. Bank Bldg., $91,500.

Tex., Georgetown—DORMITORY, etc.—Southwestern University, c/o J. S. Barcus, pres., 3 story, U shaped, 87 x 234 ft. womens building, and 1 and 2 story, 80 x 109 ft. dining hall, connected by 15 x 50 ft. arcade, rein.-con., brick and stone, to J. E. Johnson Constr. Co., Waco, $183,000. Noted June 4.

Okla., Ardmore — STORAGE — Johnson Bros. Cold Storage Co., general contract 2 story, 80 x 192 ft., with 80 x 160 ft. wing, concrete and brick, to T. E. S. Nelson, Ardmore. Archts. est. $150,000. Mar. 19.

Okla., Stillwater — DORMITORIES — A. & M. College, general contract Boys Dormitory and Girls Dormitory, each 3 story and basement, 58 x 207 ft., rein.-con., brick and stone, to Kreipke-Schaefer Constr. Co., Herske Bldg., Oklahoma City, $141,450 and $142,000 respectively.

Okla., Supply—HOSPITAL—State Building Comn., Oklahoma City, general contract 2 story 185 x 57 ft. hospital with 80 x 42 ft. wing, stone, to W. S. Bellows Constr. Co., Herskowitz Bldg., Oklahoma City $149,700.

Calif., Los Angeles—APARTMENTS—E. R. Rockwell, 742 South Hill St., 4 story and basement, 90 x 175 ft., brick, concrete and steel, Cherokee St., to M. Smith, 6665 Sunset Blvd., Los Angeles, $200,000.

Calif., Los Angeles—BANK and OFFICE—Pacific Natl. Bank, 9th and Hill Sts., 12 story and basement, 95 x 166 ft., rein.-con., and brick, 9th and Hill Sts., to R. E. Millsap, Marsh-Strong Bldg., Los Angeles, $850,000. Noted June 11.

Calif., Los Angeles—HOTEL and STORE—Walker & Eisen, archts., Great Republic Bldg., 4 story and basement, 98 x 155 ft., brick and steel, 6th and Normandie Sts., to C. Thoren, 5615 West 4th St., Los Angeles, for K. Elliott, et al. $215,000. Noted May 28.

Calif., Oakland — HOSPITAL — Alameda Co., for Highland Hospital, to Duval & Son, Dalziel Bldg., $123,500; electric work, to Newbury-Pierce Co., 481 56th St., $32,452. Noted June 11.

Calif., Oakland — THEATRE — Golden Gate Theatre & Realty Co., c/o Reid Bros., archts., 105 Montgomery St., San Francisco, theatre, 1,500 seating capacity, Foothill Blvd., to G. B. Pasqualetti, 233 Larkin St., San Francisco, $150,000. Noted Apr. 9.

Calif., San Bernardino — HOTEL, APARTMENT, etc.—R. Durbin, 3 story and basement, 150 x 225 ft., brick hotel, apartment, and store building, to F. Slot, 5416 Ruthelen St., Los Angeles, $365,000.

Calif., San Diego — HOTEL — Waldrof Hotel, 1037 4th St., 8 story and basement, 50 x 100 ft., rein.-con. annex, to Lange & Bergstrom, Washington Bldg., Los Angeles, to exceed $150,000.

Calif., San Francisco—APARTMENT—J. Helbing, 1332 Lombard St., 5 story and basement, rein.-con., Van Ness Ave., to Helbing Co., 1332 Lombard St., $165,000. Noted Oct. 2, 1924.

Calif., San Francisco—HOTEL—H. C. Keenan, 100 Sutter St., will build 6 story and basement, brick, steel and hollow tile, Post St. near Taylor St., by day labor. $175,000. Baumann and Jose, 251 Kearny St., archts. Noted May 28.

Calif., San Pedro—CLUB—Jay, Rogers, and Stevenson, archts., 919 California Bldg., Los Angeles, 5 story and basement, 145 x 185 ft., rein.-con., Beacon St., to Wurster Constr. Co., Natl. City Bank Bldg., Los Angeles, for Y. M. C. A., $401,450. Noted May 28.

Calif., Stockton—CITY HALL—City, 4 story city hall, to H. S. Williams, 185 Stevenson St., San Francisco, $360,897.

Buildings—Educational, Religious

PROPOSED WORK

N. H., Littleton—HIGH SCHOOL—Town, A. T. Downing, chn. com., having sketches made by Larson & Wells, Hanover, 2 story and basement, brick, high school. $150,000 or more. Noted Apr. 2.

N. H., Rochester — HIGH SCHOOL — School Com. rejected bids 3 story and basement, 68 x 70 ft. and 52 x 90 ft., brick and stone, plain foundation. $165,000. Will readvertise. J. E. Richardson, 56 Grove St., Dover, archt. Noted May 21.

Mass., Boston — CHURCH — Boston Missionary & Church, extension of Society of Methodist Episcopal Church, 81 Boylston St., having plans prepared by Woodbury & Stuart, 581 Boylston St., 4th Negro Methodist Episcopal Church 1 story and basement, brick and stone, Warwick St. and Cabot Pl. $150,000 funds being raised for same.

Mass., Boston—CHURCH—Boston Missionary & Church, extension of Society of Methodist Episcopal Church, 81 Boylston St., Boston, having plans prepared by Woodbury and Stuart, 581 Boylston St., First Italian Methodist Episcopal Church, 1 story and basement, brick and stone, Hanover and Salutation Sts. $150,000 funds being raised for project.

Mass., Haverhill—SCHOOL—City Council having plans prepared by Morse & Chase, 25 Washington St., 2 story and basement, brick addition to J. C. Tilton School, Grove St. $200,000.

Mass., Natick—HIGH SCHOOL—School Comn. plans Junior High School, 2 story, brick. To exceed $150,000. Engineer and architect not selected.

Mass., Roxbury (Boston P. O.) — CHURCH—Methodist Missionary Society, A. F. Reimer, pastor, 581 Boylston St., raising funds to exceed $150,000 for 4th Negro Church, here. Engineer and architect not selected.

Mass., South Boston (Boston P. O.) — CHURCH—Boston Missionary and Church, extension of Society Methodist Episcopal Church, 81 Boylston St., Boston, having plans prepared First Lithuanian Methodist Episcopal Church 1 story and basement, brick and stone, 4th and Atlantic Sts., here. $150,000 funds being raised for same. Woodbury & Stuart, 581 Boylston St., Boston, archts. Noted May 7.

Mass., South Braintree (Ind. br. of Boston)—HIGH SCHOOL—Town of Braintree, H. D. Higgins, chn., having sketches made by Shepard & Stearns, 65 Franklin St., Boston, 2 story and basement, brick, Washington St. $360,000. Noted May 7.

Mass., West Roxbury (Boston P. O.) — SCHOOL — School House Dept., Boston, plans 2 story addition to Henry Vane School, Robert Gould Shaw Dist. $150,000. Engineer and architect not selected. T. P. Glynn, chn.

Mass., Worcester—SCHOOL—City, Room 1009, City Hall, having plans prepared by E. P. Fitzgerald, 340 Main St., grade school, Ward St. $150,000.

R. I., Providence — COLLEGE — Rhode Island College c/o W. R. Walker & Son, archts., 49 Weybosset St., having plans prepared 3 story, 60 x 200 ft., brick, terra cotta and steel, Gaspee St. $650,000. Noted June 4.

R. I., Woonsocket—GYMNASIUM—Mt. Charles College, having plans prepared by W. F. Fountaine, 285 Main St., 2 story, 60 x 200 ft., rein.-con., brick and steel, gymnasium, plain foundation. $150,000.

Conn., Danbury — SCHOOL — State Bd. Educ., Hartford, plans new normal school, here. $200,000.

Conn. Mansfield—SCHOOL—State Training School & Hospital plans new school. $200,500.

Conn., Middletown — LIBRARY and LABORATORY — Wesleyan College, J. L. McConaughy, pres., soon takes bids 3 story, 40 x 165 ft., marble and limestone library, 2 story and basement, 35 x 125 ft., brick laboratory, and brick and limestone college addition. $300,000.

Conn., New Britain—SCHOOL—School Com., City Hall, had plans prepared by W. P. Crabtree, 272 Main St., 2 story and basement, brick and stone, Steele St. and Corbin Ave. $285,000.

Pa., Johnstown—CHURCH—Bd. Directors Westmont Presbyterian Church, J. W. Walters, chn. building com., having plans prepared by A. G. Lamont, archt. of Bd. National Missions, Presbyterian Church, 156 5th Ave., New York City, 2 story and basement, 90 x 100 ft., Luzerne St. $200,000. Noted Mar. 12.

Pa., Williamsport—HIGH SCHOOL—Bd. Educ. having plans prepared by Guilbert & Betelle, 20 Branford Place Newark, N. J., for Thaddeus Stevens High School, 3 story and basement, 200 x 300 ft., steel and concrete school. $400,000.

Miss., Jackson—CHURCH—First Baptist Congregation, c/o W. A. Hewett, pastor, rejected bids 1 and 2 story, rein.-con., brick

Buildings—Educational, Religious (Cont.)

and stone, College and North President Sts. $350,000. N. W. Overstreet, Jackson, archt. Noted Apr. 30.

Ia., Des Moines — CHURCH — Grace Methodist Episcopal Congregation, c/o L. M. Grigsby, 936 18th St., soon takes bids 1 and 2 story, basement and balcony, rein.-con., brick and stone, Cottage Grove and 37th St. $225,000. Vorse, Kraetch & Kraetch, 1201 Commonwealth Bldg., archts. Noted Apr. 2.

Ia., Marshalltown—HIGH SCHOOLS—Voted $75,000 bonds, for Junior High School, and $325,000 bonds Senior High School, both rein.-con., brick and stone, for Bd. Educ., H. E. Reimer, secy. Dougher, Rich & Woodburn, 320 Valley Natl. Bank Bldg. Noted May 14.

Minn., Rochester — SCHOOL — Voted $225,000 bonds, industrial school, for Bd. Educ., S. L. Seaman, clk.

Kan., Ft. Scott — SCHOOL — Defeated $200,000 bonds for school. C. A. Smith, 800 Finance Bldg., Kansas City, archt. Noted Apr. 2.

Kan., Hays—SCHOOLS—Election soon $150,000 bonds for schools, for Bd. Educ.

Mo., Joplin—SCHOOLS—Election late in June $750,000 bonds for school.

Mo., St. Joseph — SCHOOLS — Election June 20, $300,000 bonds, two new schools, also repairing and additions to existing buildings.

Tex., Wichita Falls—SCHOOLS—Election June 20, $500,000 bonds for schools. W. B. Chauncey, pres. School Bd.

Okla., El Reno—HIGH SCHOOL—Voted $165,000 bonds, 3 story and basement, rein.-con. and brick high school. Layton, Hicks & Forsyth, 905 Baniff Bldg., Oklahoma City, archts.

Calif., Fresno — SCHOOLS — Plans election $1,500,000 bonds, new schools and additions to present buildings.

BIDS DESIRED

Conn., Bristol—SCHOOL—School Comn., City Hall, taking new bids 60 x 100 ft., brick and stone school with sewage disposal plant, Pine St. $150,000. Former bids rejected. H. A. Hayden, 175 Main St., archt. Noted May 14.

Conn., New Haven — APARTMENT — June 19, by E. J. and I. Cooney, High St., 6 story, 125 x 125 ft., brick and steel, High St. $300,000. L. J. Julianelle, 42 Church St., archt.

N. Y., Rosedale (mail Jamaica) — SCHOOL—July 1, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 38, 241st St., here, for Bd. Educ., 500 Park Ave., New York City.

N. J., Audubon—HIGH SCHOOL—June 29, by Bd. Educ., 2 story and basement, 54 x 258 ft., and 92 x 111 ft., brick and steel high school, etc., plain foundation. A. Moses, Temple Bldg., Camden, archt. Noted Jan. 22.

Pa., Wayne—SCHOOL—June 22, by Bd. Educ., Radner Twp., Junior and Senior High School, 2 story and basement, 185 x 197 ft., brick and steel, plain foundation. I. T. Catharine, 19th above Chestnut St., Phila., archt. Noted May 14.

La., Shreveport—CHURCH—E. F. Neild, archt., 1206 City Bank Bldg., taking bids and opens same about June 20, brick and stone, Jordan St., for St. Johns Roman Catholic Congregation. $300,000.

Ill., Princeton—HIGH SCHOOL—June 25, by D. E. Pamp, secy., Twp. High School Bd. Educ., 3 story, 70 x 320 ft., rein.-con., brick and stone high school. $250,000. Royer, Danely & Smith, Urbana, archts. Noted Mar. 5.

Wis., Superior—GYMNASIUM—July 1, by Bd. Normal School Regents, W. J. Kettle, secy., State Capitol, Madison, 5 story, 60 x 150 ft., rein.-con., brick and steel, plain foundation, here. $175,000. A. Peabody, State Capitol Bldg., Madison, archt. Noted May 21.

Mo., St. Louis—CHURCH—St. Ambrose Catholic Church, will build 1 and 2 story and basement, rein.-con., brick and terra cotta church and parsonage, Cooper and Wilson Ave. $150,000. Work will be done by separate contracts under supervision of Corrubia & Henderson, archts., Arcade Bldg.

Calif., Hayward—HIGH SCHOOL—June 27, by Trustees Union High School Dist., 2 story, rein.-con. school. H. C. Smith, Humboldt Bank Bldg., San Francisco, archt. Noted Oct. 6.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ. taking bids Edison Junior High School, brick. $300,000 or more. Walker & Eisen, Pacific Finance Bldg., archts.

BIDS RECEIVED

Mass., Bridgewater — SCHOOL — Bd. Educ., State House, Boston, Normal and Training School, 2 story and basement, brick, plain foundation, from G. Howard & Sons, 196 Main St., Brockton, $405,000. Noted June 4.

Pa., Phila.—LIBRARY—Free Library of Phila., G. H. Biles, dir. Pub. Wks., interior finish and decoration of Liberty at 19th, 20th, Wood and Vine Sts., from F. Mark Constr. Co., Commercial Trust Bldg., $3,912,329.

Md., Baltimore—SCHOOLS—Bd. Awards, City Hall, 3 story and basement, 62 x 111 x 205 ft., Glenmore, Christopher and Sylvan Aves., from D. M. Andrew Co., Sisson and 26th Sts., $321,000; Windsor Hill School, 3 story and basement, 62 x 146 x 205 ft., Alto Ave. near Lyndhurst Ave., and 3 story and basement, 62 x 111 x 205 ft., Rogers Ave., from Mason, Curley & Brady, Inc., 308 West Madison St., $360,000 and $369,000 respectively, all rein.-con., brick and steel, plain foundations. Noted May 28.

O., Cleveland—SCHOOL—Bd. Educ. Bee Hive School Dist., J. E. Kravel, pres., R. F. D. Warrensville, P. O. Cleveland, 2 story, brick, steel and concrete addition, Lee and Miles Aves., from Graupner & Ule Constr. Co., Lorain, $97,843. Noted May 21.

CONTRACTS AWARDED

Mass., Arlington—CHURCH—Arlington First Baptist Church, H. S. Potter, pastor, 1 story and basement, brick and stone, Massachusetts Ave. and Willow Pl., to Holt-Fairchild Co., 7 Water St., Boston. Archts. est. $150,000.

Mass., Bridgewater — SCHOOL — Dept. Educ., State House, Boston, Normal and Training Schools, 2 story and basement, brick, plain foundation, to G. Howard & Sons Co., 198 Main St., Brockton. $425,000. Noted June 4.

Mass., Leominster — SCHOOL — St. Cecelias French Catholic Church, J. E. Chicoine, pastor, Mechanic St., 3 story and basement, brick, to J. J. Roberts, 4 Wall St., Worcester. Archts. est. $150,000. Noted May 21.

Mass., Lowell—CHURCH—Greek Orthodox Society, 1 story and basement, 90 x 95 ft., brick and stone, plain foundation, Clark St. and Hancock Ave., to N. Cuzanas, 53 Central St. Archts. est. $150,000.

Mass., Quincy (br. of Boston)—CHURCH—Wollaston Congregational Church, C. M. Godfrey, chn. building com., 407 Highland Ave., Wollaston, 1 story, 60 x 100 ft., brick and granite, plain foundation, to W. Coulson Co., 1 Hayward St., Cambridge. Archts. est. $150,000. Noted May 14.

Mass., Roxbury (Boston P. O.) — SCHOOL—School House Dept., Boston, 3 story and basement, 50 x 120 ft., brick and stone, Parker St., Sherwin Dist., here, to J. Bowen Co., 184 Dudley St., Roxbury.

Mass., South Attleboro—SCHOOL—City, A. R. Briggs, chn. city com., 2 story and basement, 85 x 150 ft., brick and stone, Washington St., to A. F. Smiley Constr. Co., 308 Main St., Pawtucket, R. I. Archts. est. $200,000. Noted June 4.

Conn., Bridgeport—LIBRARY—Bridgeport Public Library, Liberty Bldg., 3 and 4 story, 76 x 230 ft., brick and stone, Broad St., to J. H. Taylor, New Milford. Archts. est. to exceed $150,000. Noted May 7.

Pa., Carrick—CHURCH—Bethel Baptist Congregation, general contract 1 and 2 story and basement, Brownsville Rd. and Murray Ave., to H. L. Ley Co., Westinghouse Bldg., Pittsburgh. Archts. est. $150,000.

Pa., Fountain Springs (mail Ashland)—ACADEMY—P. A. Monaghan, 1713 Sansom St., Phila., 3 story and basement, 40 x 245 ft., rein.-con. and brick, here, to G. Nagel, Pottsville, for Sisters of Immaculate Heart of Mary, Immaculata. $750,000. Noted May 7.

Pa., Phila.—SCHOOLS—Bd. Educ., 19th and Chestnut Sts., 3 story and basement, 109 x 165 ft., 7th and Dickinson Sts., to McCloskey Co., 1620 Thompson St., Phila., $407,398, heating system, to J. Borden & Bro., 637 North 19th St., $43,348; 3 story and basement, 109 x 312 ft., Juniper and Clearfield Sts., to W. Langhorne Co., 10 South 18th St., $383,000, heating system, to W. P. McKenzie, 1234 Callowhill St., $41,482.

Md., Hagerstown — SCHOOL — A. J. Klinkhart, archt., Hagerstown, 3 story and basement, brick and steel, plain foundation, to G. B. McWolf, 6 Court Pl., $200,000. Noted May 14.

O., Akron—HIGH SCHOOL—Bd. Educ., general contract high school in Firestone Park, to Clemmer-Johnson Co., 406 Metropolitan Bldg., Akron, $243,155. Noted Apr. 16.

Ill., Blue Island—SCHOOL—Bd. Educ., 3 story and basement, 135 x 150 ft., rein.-con., brick and stone high school, to M. Stephen Co., 805 Vincennes St. Archts. est. $150,000.

Ill., Winnetka—CHURCH—Sacred Heart Roman Catholic Parish, 3 story, 76 x 204 ft., concrete, brick and stone, Burr and Tower Sts., to A. Kloepfer, Winnetka. Archts. est. $150,000.

Tex., Hereford—SCHOOL—Bd. Educ., A. Ireland, pres., 3 story, 150 x 152 ft., brick and stone school, to G. Parr, 1611 Harrison St., Amarillo. Archts. est. $150,000. Noted Mar. 19.

Calif., Berkeley — UNIVERSITY — University of Southern California, 3 story and basement, 115 x 120 ft. law building, University Ave., to Edwards, Wildey & Dixon, Black Bldg., Los Angeles, $155,000. Noted June 11.

Federal Government Work

PROPOSED WORK

Calif., San Diego—Barge—Spec. 5168—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans pile driver barge and sand pump equipment, here.

BIDS DESIRED

N. Y., New York—Post Office—July 1, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling post office, here.

N. Y., Walden—Post Office—July 13, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story, brick post office, here; adv. E. N.-R. June 18.

Pa., Phila.—Dredging—July 1, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging here.

Ala., Florence—Swinging Machinery—July 8, by U. S. Engineer Office, swinging machinery for navigation lock gates, Wilson Dam, Tennessee River; adv. E. N.-R. June 18.

Miss., Vicksburg — Levee Work — June 29, by Third Mississippi River Dist., P. O. Box 404, 360,000 cu.yd. levee work; adv. E. N.-R. June 18.

Mich., Mt. Clemens—Incinerator—June 22, at Quartermaster's Office, 3 ton garbage incinerator at Selfridge Field, here.

Ill., Great Lakes—Stokers—Spec. 5031—June 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., mechanical stokers at training station, here.

Wis., Manitowoc—Post Office—June 30, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging post office, here.

H. T., Pearl Harbor — Hospital — Spec. 5097—July 1, by Bureau Yards & Docks, Navy Dept., Wash., D. C., hospital, here.

BIDS RECEIVED

Me., Ellsworth—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office, custom house, retaining wall, etc., here, from Green & Wilson, Waterville, $10,790. Noted May 14.

Pa., Aspinwall—Water Pipe Line—U. S. Veterans Bureau, Wash., D. C., water pipe line here from A. Lucenti, 7118 Hermitage St., Pittsburgh, (1) $10,192 (2) deduct $496 (3) earth excav. $2, rock $5, filling $1.50.

Pa., Pittsburgh — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling post office here from Unkefer Bros. Constr. Co., Cleveland, O. $5,126. Noted May 21.

Calif., San Diego—Buildings, etc.—Spec. 5015—Bureau Yards & Docks, Navy Dept., Wash., D. C., 2 ordinance buildings, from J. Pringle, 212 Anita Rd., Burlingame, (1) $115,945 (2) $73,312 (4) $5,300 (5) $5,300. Noted May 14.

CONTRACTS AWARDED

N. Y., New York—Repairs—Treas. Dept. at office Supervising Archt., repairs to buildings at Quarantine station, Hoffman Island, to O. White, 294 Bergen St., Brooklyn, $4,371.

Fla., Pensacola—Waterworks—Spec. 5054—Bureau Yards & Docks, Navy Dept., Wash., D. C., pump and piping, to J. B. McCrary Co., 1408 Citizens Bank Bldg., Atlanta, Ga., Items 2, 6 and 10, $76,636 (270 days); reservoir, to Simons-Mayrant Co., 506 Peoples Bank Bldg., Charleston, S. C., item 3 $26,104 (210 days); 2 wells, to Gray Artesian Well Co., 314 South Alconiz St., item 4 $13,084 (1st well 75 days, 2nd one 105 days). Noted June 4.

Tenn., Memphis—Earthwork—U. S. Engineer Office, War Dept., Wash., D. C., 175,000 cu.yd. earthwork in Upper St. Francis Levee Dist. to Elkas, Weathers & Burt, Greenville, Miss., $46,988. Noted May 28.

Calif., Mare Island—Paving—Spec. 5092 Bureau Yards & Docks, Navy Dept., Wash., D. C., asphalt paving here to Associated Constr. Co., 112 Market St., San Francisco, (1) and (5) $8,500 (105 days). Noted June 11.

Wyoming—Road—J. W. Johnson, dist. engr., Custom House, Denver, Colo., grading 1.71 mi. Dayton-Steamboat Rock Project, Sheridan Co., to Pioneer Constr. Co., Bozeman, Mont., $39,181. Noted May 21.

Unclassified

PROPOSED WORK

Playground—Boston, Mass.—Park Dept., 33 Beacon St., plans reconstructing Riverbank Park as public playground, West End Dist. $25,000. J. B. Shea, chn.

Sand Hopper—Cambridge (Boston P. O.), **Mass.**—Boston Sand & Gravel Co., 88 Broad St., Boston, plans 40 x 160 ft. sand hopper, timber, pile and concrete foundation, Bway. $40,000. Private plans.

Ferry Terminal—College Point (Ind. Sta. Flushing), **N. Y.**—Dept. Plans & Structures, Municipal Bldg., New York City, plans ferry terminal, here.

Ferry Terminal — New York, N. Y. — Dept. Plants & Structures, Municipal Bldg., plans ferry terminal, at Clason Point, Bronx Boro.

Generating Unit, etc.—Cedar Keys, Fla.—Cedar Keys Light & Power Co., are increasing capital stock $50,000, and plans 100 kw. light unit and 40 ton ice plant addition.

Bulkhead, etc.—Leesburg, Fla.—Election June 29, for bulkhead and filling city land and Lake Haines. $140,000. W. E. Harkness, city clk.

Recreation Pier—St. Petersburg, Fla.—Voted $1,000,000 bonds recreation pier.

Parks—St. Petersburg, Fla.—Voted $195,000 bonds, beautifying parks and parkways, also $55,000 bonds constructing and beautifying proposed park 13th Ave. north to Coffee Port Bayou. S. S. Martin, dir. Finance.

Seawalls, etc. — St. Petersburg, Fla. — Voted $118,700 bonds waterfront improvements from Coffee Pot Bayou to 13th Ave. N., incl. seawalls, filling and sewer extensions; and $375,300 bonds for water front improvements from 13th Ave. N. to 7th Ave. S., incl. seawalls, dredging, sewer extensions and yacht basin between 2nd and 5th Aves. N. S. S. Martin, dir. Finance.

Wharves, Docks, etc.—Lake Charles, La.—Election July 7, $500,000 bonds, constructing wharves, docks, warehouses, etc. Address Mayor.

Golf Course — Chattanooga, Tenn. — Bd. City Comrs., plan to expend $50,000 developing 115 acres for municipal golf course.

Park Improvements—Nashville, Tenn.—Tennessee Memorial Comn., plans to expend $100,000 for park around memorial and capitol annex, incl. new walks, stone work, grading, landscape, etc. A. Peay, governor.

Grade Separation — Detroit, Mich. — Wayne Co. Rd. Comn., 1103 Real Estate Exch. Bldg., made plans grade separation at intersection of Wayne Rd. and Michigan Central Ry., about 20,000 cu.yd. excav., and about 1,000 cu.yd. concrete. H. A. Shuptrine, city engr

Street Lighting System—Bloomfield, Neb.—Voted $50,000 bonds complete electric light system.

Street Lighting System—St. Louis, Mo.—Election soon $1,850,000 bonds for street lighting system in business and residential districts.

Park Improvements—Ft. Smith, Ark.—Plans election $100,000 bonds for park improvements. M. J. Miller, comr.

Gas Pipe Line—Clinton, Okla.—Election soon $50,000 bonds for gas line and system to secure natural gas from field in Sayre. F. P. Cook, Claremore, engr.

Bath House, Pool, etc. — Wynne Wood, Okla.—See "Waterworks."

Tunnels — Los Angeles, Calif. — Voted $250,000 bonds, underground tunnels and pedestrian subways, under existing streets.

Parks, Golf Course, etc.—San Francisco, Calif.—See "Streets and Roads."

BIDS DESIRED

Pier Repairs—Boston, Mass.—June 25, by Dept. Pub. Wks. (Ferry Service), repairing piers at South Ferry. $25,000 bonds. J. A. Rourke, comr.

Coal Trestle—Central Islip, N. Y.—June 24, by State Hospital Comn., Albany, coal trestle at hospital, here. L. M. Farrington, secy.; adv. E. N.-R. June 18.

Bulkhead—New York, N. Y.—June 26, by Bd. Transportation, 49 Lafayette St., bulkhead at 148th St. and Lenox Ave. yard.

Special Work—New York, N. Y.—June 26, by Bd. Transportation, 49 Lafayette St., special work (Order 28) for construction of part of Queensboro extension to 8th Ave.

Subway—Jersey City, N. J.—July 6, by State Hy. Comn., Trenton, 1,600 ft. subway, incl. excav., bridges, retaining walls, rein.-con., steel and masonry work, concrete and granite block paving, etc., Route 1 extension between New Jersey Junction Ry. and Oakland Ave., here.

Stadium—Chicago, Ill.—July 1, by South Park Comrs., 57th St. and Cottage Grove Ave., alterations and additions to Grant Park Stadium, on Lake Front, Roosevelt Rd. and 16th St., etc. Holabird & Roche, 104 South Michigan Ave., archts.

Wharf—St. Petronille, Que.—June 25, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., improving wharf, here. $37,000.

BIDS RECEIVED

Heating — Bridgewater, Mass. — Dept. Educ., State House, Boston, heating in (a) Training and (b) Normal schools, from Hobart & Farrell, Brockton, (a) $12,976 (b) $27,160, combined bid $40,000. Noted June 4.

Station Finish—New York, N. Y.—Bd. Transportation, 49 Lafayette St., station finish for Main St. Station, Route 52, Sect. 3, Flushing Sect., here, from M. Del Balso, 600 East 221st St, $244,000. Noted May 28.

Subway—New York, N. Y.—Bd. Transportation, 49 Lafayette St., June 12, constructing Route 78 Sect. 2, under Central Park West from West 89th to West 100th Sts., from T. A. Gillespie Co., 7 Dey St., $3,997,000. Noted June 11.

Core Borings — New Jersey — State Hy. Dept., Trenton, June 8, 2,250 lin.ft. casings to be sunk to rock through water, 250 lin.ft. diamond drill core borings in rock, 5,850 ft. casings sunk on land, etc. on Route 1, between Hudson Blvd., Jersey City and Doremus Ave., Newark, Essex and Hudson Counties, from P. J. Healey, 207 Baldwin Ave., Jersey City, $17,435. Noted May 28.

CONTRACTS AWARDED

Sea Wall—Oak Bluffs, Mass.—Dept. Pub. Wks. Div. Waterways & Public Lands, State House, Boston, 1,785 ft. concrete sea wall and timber jetties, to F. T. Wescott, North Attleboro, $45,955.

Pier — Brooklyn, N. Y. — M. Cosgrove, comr. Dept. Docks, Pier A, Battery Pl., New York City, constructing concrete pile platform, wooden sheet pile bunking, dredging and filling for Canarsie Pier, Jamaica Bay, here, to A. M. Hazell, Inc., 26 Cortlandt St., New York City, $487,269. Noted June 11.

Underground Cable—Brooklyn, N. Y.—R. E. Enright, police comr., Bookkeepers Office, 240 Centre St., installing underground cable, to J. Sugden Co., 100 5th Ave., New York City, $26,055. Noted June 11.

Cable — New York, N. Y. — E. E. Mills, comr. Plants & Structures, Municipal Bldg., lead covered cable along Varick St., to J. Sugden Co., 100 5th Ave., $14,748. Noted June 11.

Special Work — New York, N. Y. — Bd. Transportation, 49 Lafayette St., special work (Order 27) for Westchester Ave. Yard, to Ramapo Ajax Corp., 50 Church St., $30,986. Noted June 11.

Radio Station—Rocky Point, N. Y.—Radio Corp. of America, 64 Broad St., New York City, extending radio station, here, incl. alterations and additions to power house, etc., to J. G. White Eng. Corp., 43 Exch. Pl., New York City.

Swimming Pool—Phila., Pa.—Pub. Wks., Bureau Recreation, City Hall, 105 x 120 ft., rein.-con. pool, lockers and shelter house, 16th and Ruffner Sts., to McCormick-Lenham, 2403 South Broad St., Phila., $35,985. Noted June 11.

Gas Storage—Tampa, Fla.—Tampa Gas Co., 201 Madison St., new gas holder, 3,000,000 cu.ft. capacity, and new mains, to Bartlett-Haywood Co., 200 Scott St., Baltimore, Md., $500,000. Noted Feb. 12.

Cable — Detroit, Mich. — Pub. Lighting Comn., East Atwater St., approximately 368,000 ft. 24,000 volt cable for transmission line for new power plant, to Habirshaw Electric Cable Co., 10 East 43rd St., New York City, N. Y., $779,510.

Posts and Cable—Brainard, Minn.—For 127 Class "A" and 75 Class "B" single light posts, to J. Andrea & Sons Co., 362 Bway., Milwaukee, Wis., $13,900; 62,600 lin.ft. cable, to Western Electric Co., 413 South 4th St., Minneapolis, $82.68 per M ft.

Street Lighting System—Brainard, Minn.—W. D. McKay, secy. Water & Light Bd., rejected bids May 5, 127 Class "A" and 75 Class "B" single light posts, 62,600 lin.ft. cable, etc. Work will be done by day labor. Noted Apr. 30.

Heating System—Owatonna, Minn.—Distribution lines in Dist. 1 of municipal public utility underground heating system, to Donovan Constr. Co., 1101 Builders Exch. Bldg., St. Paul, $35,897. Noted Oct. 9.

Bracket Lights—St. Paul, Minn.—H. W. Austin, city purch. agt., 224-400 candlepower bracket lights on standard trolley poles on West 7th St. between Seven Corners and Tuscarora Ave., to Acme Electric Co., 1085 West 7th St., $53,334. Noted June 4.

Coaling Station — Hutchinson, Kan. — Atchison, Topeka & Santa Fe R.R. Co., Railway Exch. Bldg., Chicago, 300 ton rein.-con. and steel coaling station, here, to Roberts & Schaefer Co., Wrigley Bldg., Chicago, Ill.

Transmission Line and Distribution System—Oklahoma—City of Carter, 18 mi. electric transmission line from Carter to Elk City and distribution system in Carter, to Inland Utilities Co., Elk City, $21,7[illegible]. Engrs. est. $25,000. Noted May 28.

Gas Distribution System—Mangum, Okla.—City, gas main supply system from here to Sayre Field, to D. R. Williams, Mangum, $240,000.

Overhead Crossing—Oregon—See "Streets and Roads."

Wharf—Goderich, Ont.—Dept. Pub. Wks., Ottawa, wharf improvements, mooring crib, and breakwater, to Jackson Constr. Co., Sorel, Que., $40,000. Noted Apr. 30.

Dock—Cowichan, B. C.—Canadian Natl. Rys., Ottawa, Ont., 6,000 ft. pile and timber dock, 30 ft., to Pacific Engineers Ltd., 744 Hastings St. W., Vancouver, $90,000.

Underground Conduit—Point Grey, B. C.—University of British Columbia, underground distribution system of electrical conduit, etc., for buildings, to Hume & Rumble, 647 Columbia Ave., New Westminster, $54,550.

Grain Elevator—Prince Rupert, B. C.—F. O'Hara, deputy minister, Trade & Commerce, Ottawa, rein.-con. superstructure of elevator, 65 x 250 ft. storage bins, 500,000 bu. capacity, 65 x 120 ft. workhouse, 120 x 150 ft. truck shed and receiving pits, 80 x 220 ft. warehouse, etc., to Carter-Halls-Aldinger Co., Bekins Bldg., Vancouver, $876,726. Noted May 7.

Materials

PROPOSED WORK

Paving Materials—St. Paul, Minn.—H. W. Austin, city purch. agt., rejected bids May 19, 1,800 bbls. Portland cement, etc., for paving West 7th St.; also 725 sq.yd. 3 in. vertical fibre brick, 2,520 bbls. Portland cement, etc., for paving Edgecombe Ave. Work to be done on contract. See item under "Streets and Roads" contracts awarded. Noted May 14.

BIDS DESIRED

Paving Blocks—Long Island City, N. Y.—June 23, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 15,000 granite paving blocks.

Inorganic Dust, etc.—New York, N. Y.—June 25, by J. Miller pres. Manhattan Boro, Municipal Bldg., 3,000 tons inorganic dust, 3,000 cu.yd. concrete and paving sand, 8,000 cu.yd. ¾ in. binder stone, 600,000 gal. asphaltic cement, and 20,000 cu.yd. asphalt sand.

Road Oil, etc.—Galesburg, Ill.—Galesburg Twp. in market for 80,000 to 100,000 gal. road oil, etc. $5,000. O. Swedlund, Galesburg, engr.

Structural Steel — Friendship, Wis. — Friendship Power Co., G. Poliska, mgr., taking bids structural steel, tainter gates, steel sash, etc. for power plant and dam. Private plans.

Lumber—Merced, Calif.—June 30, by H. P. Sargent, secy. Merced Irrigation Dist., Barcroft Bldg., 403,000 ft. creosoted lumber.

BIDS RECEIVED

Granite Paving Blocks—Boston, Mass.—Supply Dept. 1,000,000 new granite paving blocks, from Pease & Co., Nashua, N. H., $121.50 per M.

CONTRACTS AWARDED

Asphaltic Oil, etc.—Dover, N. J.—Town Council, asphaltic oil to C. M. Munson, Dover, $0.197 per gal., to Dosch-King Co., Montclair, 45% oil $0.105 per gal., slag, slag chips and slag sand, to C. Helgold, Dover, $1.70, $1.95 and $1.50 per ton respectively.

Road Materials—New Brunswick, N. J.—Middlesex Co., 35,000 gal. cold patch tar, to C. Sebolt, 10 Richmond St., New Brunswick, $0.17 per gal.; 10,000 gal. cold tar or asphaltic oil, to Asphaltic Service Co., New Brunswick, $0.1575; 48, 36, 24, 18 and 15 in. corrugated metal pipe, to Galion Iron Wks., Galion, O., $1,296; rein.-con. pipe, to Newark Concrete Pipe Co., 462 Broad St., Newark, $2,786.

Asphalt Road Oil—Brantford, Ont.—For 150,000 gal. asphaltic road oil, to J. I. Miller, Brantford, $0.1115 per gal., total $16,725.

Asphalt, etc.—Niagara Falls, Ont.—Furnishing liquid asphalt, to Imperial Oil Co. Ltd., Imperial Oil Bldg., Toronto, $0.12 per gal.; asphalt sand, to Harvey Wilcox, Niagara Falls, $1.75 per cu.yd.; limestone dust, to J. E. Russell Co. Ltd., Harbor Bldg., Toronto; 3,000 tons crushed stone, etc., to D. Bawtenheimer, Niagara Falls, $1.95 per ton.

Asphalt Oil, etc.—Ottawa, Ont.—Annual supply of asphalt oil, to Imperial Oil Ltd., Catherine St., $0.125; tar oil, to Barrett Co. Ltd., and Hamilton Tar & Ammonia Co., Ottawa, $0.145.

CONSTRUCTION NEWS

Engineering News-Record, June 25, 1925

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Office, New York, N. Y., J. C. and M. G. Mayer plan building, $8,000,000.

Hospital, New York, N. Y., Bellevue and Allied Hospitals plan new group, $3,000,000.

Hotel, San Francisco, Calif., L. W. Huckins having plans prepared, $3,000,000.

Hotel, Long Beach, Calif., Castilian Hotel Corp. plans building, $2,500,000.

Hotel, Long Beach, Calif., F. B. Dunn plans building, $1,600,000.

Paving, Cleveland, O., Bd. of Comrs. plans 7 mi. paving, $1,500,000.

Hotel, Oakland, Calif., J. K. Leaming having plans prepared $1,500,000.

Hospital, Pittsburgh, Pa., Montefiore Hospital having plans prepared, $1,000,000.

Office, Tampa, Fla., J. A. Crenshaw plans building, $1,000,000.

Plant, Pittsburg, Calif., H. W. Johns-Manville Co. plans factory, $1,000,000.

Auditorium, Seattle, Wash., City Council having preliminary plans prepared, $1,000,000.

Sanitarium, Okanogan, Wash., Epso Products Co. plans sanitarium and resort, $1,000,000.

Chemistry building, Philadelphia, Pa., University of Pennsylvania plans building, $1,000,000.

Bids Wanted On Big Jobs

Removal of grade crossings, Philadelphia, Pa., City and Philadelphia and Reading R.R. take bids about Aug. 1, $2,900,000.

Apartment, Bridgeport, Conn., Owner c/o R. Williams, archt., taking bids, $1,000,000.

Theatre, Atlantic City, N. J., Hoffman-Henon Co., Philadelphia, Pa., taking sub. bids, $1,000,000.

Large Contracts Let During Week

Subway, New York, N. Y., Bd. of Transportation to T. A. Gillespie Co., $3,997,000.

Office, Detroit, Mich., Book Estate to Starrett Bros., Chicago, $3,000,000.

Office, Denver, Colo., Tremont Investment Co. to Dutton-Kendall Co., $1,650,000.

Central Y. M. C. A., St. Louis, Mo., to J. Stewart & Co., $1,500,000.

Bridge, between Minneapolis and St. Paul, to J. O. Heyworth, Inc., $1,437,984.

High School, Reading, Pa., Bd. of Educ., gen. contract to Melody and Son, total contract, $1,279,755.

Bank and Office, Erie, Pa., Erie Trust Co. to Sheink Constr. Co., $1,000,000.

Roundhouse, South St. Paul, Minn., Chicago, Milwaukee and St. Paul R.R. Co. to H. C. Struchen, $1,000,000.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record
	WATERWORKS	
June 26	New York, N. Y.	June 25
June 29	Boston, Mass.	June 18
June 29	Minneapolis, Minn.	June 18
June 29	Wakefield, Kan.	June 25
June 29	Menomonee Falls, Wis.	June 25
June 29	Praque, Okla.	June 25
June 29	Storm Lake, Ia.	June 25
June 29	Windsor, Ont.	June 25
June 29	New York, N. Y.	June 25
June 30	Macon, Ga.	June 4
June 30	Greenwood, Neb.	June 23
July 1	Hartford, Conn.	June 11
July 1	Fairfield, Ill.	June 11
July 2	Deerfield, Wis.	June 25
July 2	Du Boise, Neb.	June 25
July 2	Seaside Heights, N. J. Adv. June 25.	June 25
July 2	Buffalo, N. Y.	June 25
July 6	St. Paul, Minn.	June 25
July 7	Ocala, Fla.	June 25
July 7	New London, N. H. Adv. June 25.	June 25
July 7	Grantsburg, Wis.	June 25
July 9	Ronceverte, W. Va. Adv. June 25.	June 25
July 9	Rhode Island Adv. June 25.	June 25
July 13	Covington, Ky. Adv. June 25.	June 25
July 14	Woodstock, Va.	June 25
July 20	Oakland, Calif.	June 4
July 27	Omaha, Neb. Adv. June 25.	June 25
July 28	Leesville, S. C.	June 25
	SEWERS	
June 29	Butler, N. J. Adv. June 18 and 25.	June 18
June 29	Long Island City, N. Y.	June 25
June 30	St. George, N. Y.	June 18
June 30	Louisville, Ky.	June 4
June 30	Wallingford, Conn.	June 11
June 30	Tampa, Fla.	June 25
July 1	Boston, Mass.	June 25
July 1	West Seneca (mail Buffalo) N. Y.	June 25
July 2	Boston, Mass.	June 25
July 6	Lansdale, Pa. Adv. June 18 and 25.	June 18
July 6	Boston, Mass.	June 25
July 6	Plainfield, N. J. Adv. June 25.	June 25
July 7	Boston, Mass.	June 25
July 7	Grantsburg, Wis.	June 25
July 28	Leesville, S. C.	June 25
	WASTE DISPOSAL	
July 6	West Palm Beach, Fla. Adv. June 18.	June 18
	BRIDGES	
June 29	Arkansas	June 18
June 29	Milwaukee, Wis.	June 25
June 30	Tampa, Fla.	May 28
June 30	Media, Pa.	June 18
June 30	Chester, Pa.	June 18
June 30	Louisiana	June 18
June 30	Wyoming	June 25
June 30	Louisiana	June 25
June 30	Beaufort, S. C.	June 25
July 2	North Adams, Mass. Adv. June 11 to 25.	June 11
July 6	Georgia	June 18
July 8	Alabama	June 4
July 8	Alabama	June 18
July 8	Freehold, N. J. Adv. June 25.	June 25
July 14	Washington	June 25
	DAMS	
June 30	Ottawa, Ont.	June 11
July 9	Gouverneur, N. Y.	June 18
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES	
July 6	Buffalo, N. Y.	June 25
July 7	Albany, N. Y. Adv. June 11 to 25.	June 11
	STREETS AND ROADS	
June 26	New York Adv. June 4 to 25.	June 4
June 26	Sandwich, Ont.	June 25
June 27	Elizabeth City, N. C. Adv. June 18 and 25.	June 18
June 28	Cudahy, Wis.	June 4
June 29	Akron, O.	June 11
June 29	Plainfield, N. J.	June 11
June 29	Columbus, Ga.	June 18
June 29	Akron, O.	June 18
June 29	Arkansas	June 18
June 29	Texas	June 25
June 29	Michigan	June 25
June 29	Arkansas	June 25
June 29	Minneapolis, Minn.	June 25
June 30	Stanton, Ia.	June 18
June 30	Uniontown, Pa.	June 18
June 30	Minnesota	June 18
June 30	St. Louis, Mo.	June 4
June 30	Columbus, O.	June 25
June 30	New Hampshire	June 25
June 30	Boston, Mass.	June 25
June 30	Massachusetts	June 25
June 30	Wyoming	June 25
June 30	South Dakota	June 25
June 30	Denver, Colo.	June 25
July 1	Rhode Island Adv. June 18 and 25.	June 18
July 1	Deland, Fla.	June 4
July 1	Delaware	June 11
July 1	Newton, N. J. Adv. June 18 and 25.	June 18
July 1	Georgetown, S. C. Adv. June 18 and 25.	June 18
July 1	Philippi, W. Va.	June 18
July 1	Baltimore, Md.	June 25
July 1	Deland, Fla.	June 25
July 1	Sayreville, N. J.	June 25
July 2	Philippi, W. Va.	June 18
July 2	Louisiana	June 18
July 2	Port Angeles, Wash.	June 18
July 2	Wisconsin	June 25
July 2	North Dakota	June 25
July 2	Virginia Adv. June 25.	June 25
July 2	Louisiana	June 25
July 2	Brooklyn, N. Y.	June 25
July 2	New York, N. Y.	June 25
July 3	Philippi, W. Va.	June 18
July 3	Wisconsin	June 25
July 3	Eagle Lake, Fla.	June 25
July 3	Greenville, Miss.	June 25
July 6	California	June 18
July 6	Peekskill, N. Y. Adv. June 18 and 25.	June 18
July 6	South San Francisco, Calif.	June 18
July 6	Wichita Falls, Tex.	June 18
July 6	Fayetteville, W. Va. Adv. June 11 to 25.	June 11
July 6	New Jersey Adv. June 18 and 25.	June 18
July 6	Bridgeport, W. Va.	June 25
July 6	Astoria, Ill.	June 25
July 6	San Diego, Calif.	June 25
July 6	Wartham, Tex.	June 25
July 6	Cedar Rapids, Ia.	June 25
July 6	St. Paul, Minn.	June 25
July 7	Dade City, Fla. Adv. June 18 and 25.	June 18
July 7	Dundee, Fla.	June 25
July 7	Tampa, Fla.	June 25
July 7	North Dakota	June 25
July 7	Pennsylvania Adv. June 25.	June 25
July 8	Alabama	June 4
July 8	North Dakota	June 25
July 8	Jackson, Miss.	June 25
July 8	Grand Forks, N. D.	June 18
July 9	Louisiana	June 25
July 9	Oberlin, La.	June 25
July 9	Port Arthur, Tex.	June 25
July 10	North Dakota	June 25

Bids Close		See Eng. News-Record
July 10	Pittsboro, Miss.	June 25
July 13	Kentucky	June 18
July 14	Worthington, Minn.	June 25
July 14	St. Louis, Mo.	June 25
July 14	Washington	June 25
July 15	New York. Adv. June 25.	June 25
July 15	Phila., Pa. Adv. June 25.	June 25
July 17	Faribault, Minn.	June 25
Aug. 1	Birmingham, Ala.	June 25

BUILDINGS INDUSTRIAL

June 30	Jamestown, N. Y.	June 25
July 1	New York, N. Y.	June 25

BUILDINGS—COMMERCIAL

June 26	Wash., D. C.	June 25
June 29	Beacon, N. Y.	June 18
June 26	Phila., Pa.	June 25
June 27	Phila., Pa.	June 25
June 29	Youngstown, O.	June 25
June 30	Olympia, Wash.	June 4
June 30	Rome, N. Y.	June 11
June 30	Sonyea, N. Y.	June 11
June 30	Creedmoor (Jamaica P. O.), N. Y. Adv. June 18 and 25.	June 18
July 1	Kansas City, Mo.	June 11
July 1	Birmingham, Ala.	June 11
July 1	Newton, Kan.	June 25
July 1	Grafton, N. D.	June 25
July 1	Atchison, Kan.	June 25
July 1	Alto, Ga.	June 25
July 6	Coney Island (Brooklyn P. O.), N. Y.	June 25
July 6	Trenton Junction (Trenton P. O.), N. J.	June 25
July 6	Murphysboro, Ill.	June 25
July 6	Baltimore, Md.	June 25
July 13	Johnstown, Pa.	June 18
July 14	Phila., Pa.	Feb. 19
July 15	Brooklyn, N. Y.	May 21

BUILDINGS—EDUCATIONAL, RELIGIOUS

June 26	Lancaster, Pa.	June 25
June 29	Audubon, N. J.	June 18
June 29	York, Pa.	June 11
June 30	Ellwood City, Pa.	June 11
June 30	Fergus Falls, Minn.	June 11
June 30	Lorain, O.	June 25
June 30	Tampa, Fla.	June 25
July 1	Rosedale (mail Jamaica), N. Y.	June 18
July 1	Superior, Wis.	June 18
July 1	San Francisco, Calif.	May 28
July 1	Rosedale (mail Jamaica), N. Y.	June 25
July 2	Minneapolis, Minn.	June 25
July 8	St. Louis, Mo.	June 25
July 16	Buffalo, N. Y.	June 25

FEDERAL GOVERNMENT WORK

June 29	Levee Work—Vicksburg, Miss. Adv. June 18 and 25.	June 18
June 29	Levee—Vicksburg, Miss.	June 25
June 29	Heating System—Mt Vernon, Ill.	June 25
June 30	Road—Ft. Bayard, N. M.	June 11
June 30	Post Office—Manitowoc, Wis.	June 18
July 1	Post Office—New York, N. Y.	June 18
July 1	Remodeling—New York, N. Y.	June 4
July 1	Hospital—Pearl Harbor, H. T.	June 18
July 1	Dredging—Phila., Pa.	June 18
July 1	Pipe, etc.—Wash., D. C.	June 25
July 2	Remodeling—Lynn, Mass.	June 4
July 3	Post Office—Lowell, Mass.	June 4
July 3	Dredging—Bridgeport, Conn. Adv. June 4 to 25.	June 4
July 6	Remodeling—Saginaw, Mich.	June 11
July 7	Bridges, Florence, Ala. Adv. May 21 to June 25.	May 28
July 7	Post Office—Clarksburg, W. Va.	June 11
July 7	Hospital—Oteen, N. C.	June 25
July 7	Post Office—Clarksburg, W. Va.	June 25
July 8	Post Office—Camden, Ark.	June 11
July 8	Swinging Machinery—Florence, Ala. Adv. June 18 and 25.	June 18
July 9	Remodeling—Providence, R. I.	June 4
July 10	Post Office—Franklin, Pa.	June 11
July 10	Earthwork—New Orleans, La.	June 25
July 13	Post Office—Walden, N. Y. Adv. June 18 and 25.	June 18
July 15	Embankment—Memphis, Tenn.	June 25
July 20	Crane—Florence, Ala. Adv. June 11 to 25.	June 11
July 29	Hospital—Canacao, P. I.	May 21
Aug. 4	Hospital—Hot Springs, S. D. Adv. June 25.	June 25

UNCLASSIFIED

June 26	Bulkhead—New York, N. Y.	June 18
June 26	Special Work—New York, N. Y.	June 18
June 30	Bank Protection—Bale St. Paul, Que.	June 25
June 30	Wharf—Sorel, Que.	June 25
June 30	Guard Rail — South Dakota	June 25
July 1	Stadium—Chicago, Ill.	June 18
July 1	Pier and Bulkhead—New York, N. Y.	June 25
July 3	Breakwater and Wharf—Little Judyne Ponds, N. S.	June 25
July 6	Subway—Jersey City, N. J. Adv. June 18 and 25.	June 18
Aug. 10	Electric Capstans, etc.—Napier, New Zealand	June 25

MATERIALS

June 29	Sand, etc.—Illinois	June 25

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Melrose—Bd. Aldermen plans extending mains in various sections of city. $15,000. Engineer not selected.

N. Y., Buffalo—Plans new water tower and 16 in. watermain in Hamburg Turnpike. $200,000. B. Boyle, Municipal Bldg., comr.

N. Y., North Tonawanda—Bd. Pub. Wks. plans extending mains in various streets. $25,000. C. L. Oelkers, city engr.

Pa., Phila. — Dept. Pub. Wks., Bureau Water, rejected bids June 1, Contr. 739. Will readvertise. Noted June 11.

La., Lake Charles—Lake Charles Electric Co., making plans improving waterworks, incl. filtration plant, etc. To exceed $15,000. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.

O., Ashtabula — Made plans brick and steel pumping station. $20,000. G. B. Gascoigne, Leader News Bldg., Cleveland, engr.

O., Columbus—See "Streets and Roads."

O., Fremont—Plans constructing filtration system to replace present water supply system. $200,000. W. H. Schwartz, mayor.

Mich., Grosse Pointe Farms (branch of Detroit)—Made plans 2,200 ft. 6 in. and 4,830 ft. 8 in. c.i. mains in various streets. J. A. Kerby, city clk.

Ill., Greenville — Election Aug. 1, $42,000 bonds, for waterworks.

Wis., Oconto Falls—A. W. Johnson, city clk., making preliminary plans improving waterworks, incl. additional wells, electrically driven booster pumps, 100,000 gal. elevated tank on steel tower, etc. To exceed $15,000. McMahon & Clark Eng. Co., Menasha, engrs.

Minn., Mankato—F. W. Bates, city clk., making preliminary plans improving and extending waterworks, incl. additional wells and pumping equipment, etc. $50,000. L. P. Wolff, 903 Globe Bldg., consult. engrs.

Mo., La Plata — Voted $95,000 bonds waterworks, pumping equipment, deep wells, tank on tower, distribution mains, etc., in various streets. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, engrs. Noted May 14.

Mo., Troy—Election about July 1, $48,000 bonds, two deep wells and pumps, 55 fire hydrants, 75,000 gal. capacity tank on 75 ft. tower, 25,000 ft. 4, 6 and 8 in. c.i. mains, etc., in various streets. E. Flad & Co., 1312 Chemical Bldg., St. Louis, engrs.

Tex., Idalou—Soon takes bids for waterworks system. $30,000 bonds voted. Montgomery & Ward, Wichita Falls, archts. Noted May 26.

Tex., San Antonio—San Antonio Water Supply Co. soon takes bids 1 m.g. steel and concrete reservoir in Laurel Heights. $130,000. I. Ewing, city engr. Noted May 7.

Tex., Wichita Falls — Election soon $100,000 bonds, waterworks improvements, incl. filtration plant, piping water from Lake Michigan, etc. F. M. Rugely, city engr.

Okla., Eufaula — Making preliminary plans waterworks, incl. pumping machinery, 500,000 gal. daily capacity, etc. $25,000. Address R. L. Carter, city clk.

Okla., Idabel—Voted $50,000 bonds, new filtration plant, pumps, oil engine, meters, etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Colo., Denver — Defeated $10,000,000 bonds, constructing reservoir and water system.

Ariz., Chandler — Voted $100,000 bonds, waterworks.

Wash., Tacoma — See "Streets and Roads."

Calif., Los Angeles — Voted $2,000,000 bonds constructing aqueduct system from the Colorado River. Noted May 21.

Calif., McCloud—McCloud River Lumber Co. made plans water supply system, incl. 36,970 lin.ft. 16 in. wood stave pipe line, concrete dam, 10 ft. high, 110 ft. long on top, and 100 ft. long on bottom. $75,000. Private plans.

Ont., Hagersville—Plans mains in various streets. J. T. Park, town clk.

BIDS DESIRED

N. H., New London — July 7, by Bd. Water Comrs., earth dam, and about 5 mi. 6- to 12-in. wood pipe line, etc.; adv. E. N.-R. June 25.

Rhode Island — July 9, by Bd. Water Comrs., City Hall, Woonsocket, raising dam at Reservoir 3, Woonsocket Water Works, in Smithfield and North Smithfield, and raising highway near Stephen Wright Pl. F. H. Mills, city engr.; adv. E. N.-R. June 25.

N. Y., Buffalo—July 2, by Comn. Pub. Affairs, 3,000 ft. 5 5/16 in. 17 pound casing; 3,000 ft. 3/4 in. extra strong pipe with long couplings; 1 heavy duty counter balance pumping power, suitable for operating O'Dell barrell in well 3,400 ft. deep. F. C. Perkins, 332 Ellicott St., comr.

N. Y., New York — June 26, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc., in Newton Rd., 11th and Woolsey Aves., 1st Ward; 63rd and 67th Drs., 58th Rd., Nansen, Atom, Austin, Carolyn, Ella, 66th and 112th Sts., Folsom, Stafford, 32nd, 44th and 54th Ave., 2nd Ward; 150th Pl., 32nd and Graham Courts, 27th, 29th, 32nd, 35th, 91st, Jewel, 58th and 65th Aves., 124th, 130th, 160th, 162nd, 165th, 245th and 247th Sts., 3rd Ward; 154th Dr., Old and New Lanes, Alden and Sampson Places, Bayview, 153rd, 154th, 155th, Britton, Herrick and Junction Aves., Broad, Lumbard, Exeter, Helsey, 2nd and 91st Sts., 4th Ward.

N. Y., New York — June 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc., in St. Nicholas Park, St. Nicholas, 7th and 8th Aves., East 135th, West 135th and 150th Sts.

N. J., Seaside Heights—July 2, by Boro Council, erecting stand pipe 20 ft. diam., 120 ft. high, on concrete foundations. Sherman & Sleeper, 501 Cooper St., Camden, engrs.; adv. E. N.-R. June 25.

Va., Woodstock—July 14, by Bd. Town Comrs. at office of H. Trotter, mayor, concrete intake dam, 56,500 lin.ft. 8 or 10 in. c.i. gravity supply line, chlorinators, etc. Amer. Industries Eng. Co., 140 Cedar St., New York City, engrs. Carolina Eng. Co., 917 Johnston Bldg., Charlotte, N. C., associated engrs.

W. Va., Ronceverte — July 9 (extended date), by City at office A. S. Woodhouse, city clk., waterworks improvements, incl. filtration plant, equipment, pumps, etc. H. K. Bell, 418 Hernando Bldg., Lexington, Ky., engr.; adv. E. N.-R. June 25. Noted June 11.

S. C., Leesville—July 28, by Town Bd. of Commissioners, at office C. D. Barr, Jr., chn., 15,000 lin.ft. 2 in. pipe, and 13,700 lin. ft. 6- to 10-in. c.i. mains, etc., in various streets. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, engr. G. H. Bishop, consult. engr.

Fla., Ocala—July 7, by City, motor driven cross compounded or single cylinder air compressor to deliver 1,000 gal. water per minute, from either two 8 in. wells, 350 ft. deep or from one 12 in. well, 1,200 ft. deep, etc.

Ky., Covington—July 13, at office Dixie Highway Water Co., 605 Coppin Bldg., mains, pumping station, elevated steel tank, etc.; adv. E. N.-R. June 25.

O., Columbus—See "Streets and Roads."

Wis., Deerfield—July 2, by E. Helmick, village clk., drilling well, 10 in. diam. 300 to 350 ft. deep, for waterworks. W. G. Kirchoffer, 22 North Carroll St., Madison, engr. Noted June 4.

Wis., Grantsburg—July 7, by C. A. Taylor, city clk., one 75,000 or one 100,000 gal. elevated tank on 75 ft. tower, 1 or more shallow wells, 10,900 ft. 6 in. and 2,100 ft. 8 in. c.i. pipe, sixteen 6 in. and six 8 in. gate valves, etc. $35,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs. Noted July 31.

Wis., Menomonee Falls—June 29, by W. J. Connell, village clk., drilling well and

Waterworks (Continued)

deep well pump to deliver 350 g.p.m. against static head of 191.3 ft. Former bids rejected. Noted Apr. 9.

Ia., Storm Lake—June 29, improving and extending brick and concrete filtration plant; pipe and equipment for 2 filters. $15,000. J. H. Oates, city clk.

Minn., St. Paul—July 6, by Ramsey Co., sinking 2 or 3 tubular wells at Bald Eagle and Owasso Lakes. $15,000. P. N. Coates, 900 Guardian Life Bldg., engr. Noted May 26.

Kan., Wakefield—June 29, by Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo., additional well, pump house and pumping equipment, here, for City. Noted June 18.

Neb., Dubois—July 2, by M. Church, village clk., 35,000 gal. or 50,000 gal. tank on 100 ft. tower, 5,124 ft. 4- to 8-in. c.i. pipe, 6,100 ft. 1 and 2 in. galvanized pipe, two 16 ft. wells approximately 35 ft. deep, etc. Henningson Eng. Co., Natl. Bldg., Omaha, engrs. Noted Dec. 18.

Neb., Greenwood — June 30, by W. E. Hand, village clk., waterworks, incl. well, motor driven pump, pumphouse, elevated tank, c.i. mains, valves, hydrants, etc. $23,300. Grant, Fulton & Letton, 525 South 13th St., Lincoln, engrs. Noted June 11.

Neb., Omaha—July 27, by Metropolitan Utilities Dist., at office T. A. Leisen, genl. mgr., 206 City Hall, 36 and 48 in. water-mains; adv. E. N.-R. June 25.

Okla., Prague—June 29, by Town, for well, air compressor, concrete reservoir, and main extensions. Holway Eng. Co., 503 Wright Bldg., Tulsa, engrs. Noted Apr. 2.

Ont., Windsor—June 29, by Water Commissioners, W. A. Hanrahan, secy., 100 tons (more or less) 12 in., 30 tons (more or less) 8 in. and 100 tons (more or less) 6 in. c.i. mains, valves, fire hydrants, etc., f.o.b. Windsor.

BIDS RECEIVED

N. Y., St. George — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, June 19, mains in Bard, Beach, Bement, Dale, Dewey, Harvest, Holmstead and Isabella Aves., etc., here, from G. V. Cornell, Rose Bank, S. I., $25,490.

Md., Baltimore—Bd. Awards, superstructure of chemical, filter and shelter buildings, pumping station and garage, at Montebello Ave. filters, Harford Rd. and 33rd St., from J. H. Miller Inc., Eutaw and Franklin Sts., $309,631. Noted June 11.

Wis., Milwaukee—Dept. Pub. Wks., June 18, 3,520 ft. 12 and 20 in. mains in various streets, from Mierswa Constr. Co., 1619 Oregon St., Oshkosh, $15,830. Noted Dec. 14.

CONTRACTS AWARDED

R. I., Scituate—Water Supply Bd., City Hall, Providence, 2,200 hp. water wheel for 80 ft. head, to S. Morgan Smith Co., Hartley and Lincoln Sts., York, Pa.; 1,500 kw. generator, switchboard and six 22,000/2,300-volt transformers, to Westinghouse Electric & Mfg. Co., 393 Harris St., Providence; electric wiring, incl. duct and pole lines and various appurtenances, to Peerless Electric Co., 73 Exchange Pl., Providence; 5 ton and 20 ton electric crane, to Harnischfeger Corp., 38th St. and National Ave., Milwaukee, Wis. Noted May 7.

Conn., Milford — Milford Water Co., 24 Broad St., steel standpipe, 55 ft. high, 50 ft. diam., 800,000 gal. capacity, to Chicago Bridge & Iron Wks., 37 West Van Brunt St., Chicago, Ill.

Conn., New Haven—New Haven Water Co., 100 Crown St., stand pipe, 53 ft. high, 40 ft. diam., incl. about 75 tons steel plates, Summit St., to Chicago Bridge & Iron Wks., 37 West Van Brunt St., Chicago, Ill.

New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, alterations to structures along 72 in. steel pipe line necessitated by construction of Conduit Blvd. in Queens and Nassau Counties, to Dooley Stapleton Corp., 257 Delphi Pl., Brooklyn, $37,661. Noted June 18.

N. Y., Jamestown — Bd. Pub. Utilities, reservoir, to Mullen, Guinanne & Ludwig, Jamestown, pumps, to Lecourtenay Pump Co., 5 Maine St., Newark, N. J.; motors, etc., to Westinghouse Electric Mfg. Co. Chamber of Commerce Bldg., Pittsburgh, Pa. Total est. $25,000.

Pa., Phila. — Dept. Pub. Wks., Bureau Water, Contr. 758, to J. R. Fox, Jr., 2620 West Fletcher St., $5,500; Contr. 759, to Acme Machine Co., 316 North 17th St., $12,038; Contr. 760, to Huxley Fdry. Inc., 106 Tasker St., $2,150. Grand total $18,688. Noted June 11.

O., Cincinnati—Hamilton Co., 22,760 ft. 6 and 8 in. c.i. mains in Water Supply Line 12, Dist. 4, School Sect. Rd., Harrison and Race Aves., and 22,494 ft. 6 and 8 in. mains in Water Supply Line 11, Dist. 4 and 5, Muddy Creek, Anderson Ferry and Foley Rds., to W. Hennigan, 7011 Montgomery Park, Norwood, $45,109 and $44,675 respectively, engrs. est. $50,757 and $51,446 respectively; 41,384 ft. 6 and 8 in. mains in Water Suppl yLine 19, Dist. 1, Osceola Park, Maderia Heights and Drake Rd., to J. Dempsey, 5310 Carthage Ave., Norwood, $76,237, engrs. est. $86,678. Grand total $166,021. Noted June 18.

Tex., Houston—City, 2 wells, 1,000 g.m.p. capacity, at Central Pumping Sta., to Layne-Texas Co., 3605 McKinney Ave., Houston, $28,950. Engrs. est. $30,000. Noted May 28.

Okla., Wewoka—City, waterworks extensions, incl. Imhoff tank, 26,400 ft. 4 and 6 in. c.i. mains, etc., also 7 mi. sanitary sewer extensions, disposal plant, etc., to Park & Moran, Box 622, Okmulgee, $84,619. Engrs. est. $100,000. Noted May 28.

Ont., Forest—Cast iron pipe, to Gartshore Thompson Pipe & Fdry. Co., Hamilton, $30,044; trenching and laying mains, to P. Mohan, Hyman Hall, London, $9,330; hydrants and valves, to Canadian Valve & Hydrant Co., Brantford. Engrs. total est. $50,000. Noted June 11.

Ont., Crystal Beach—P. E. Ryan, reeve, intake pipe, to Gardner Constr. Co., 22 Cross St., Welland, $33,700; filters, to Canadian International Filter Co., Confederation Life Bldg., Toronto, $10,750; elevated tank, to Toronto Iron Wks., Cherry St., Toronto, $11,572; equipment, to Turbine Equipment Co., 73 King St. Toronto, $9,500. Noted May 21. Grand total $65,522.

Sewers

PROPOSED WORK

Mass., Melrose — Bd. Aldermen plans sewers in various streets. $25,000. Engineer not selected.

Mass., Quincy (Boston P. O.) — Plans sanitary sewers in various streets. $30,000. Engineer not selected.

R. I., Providence—Plans sewerage works in Seamans St., Thurbers, Wayland, Whipple and Wyndham Aves. $25,000. J. B. Ballard, chn. Com. on Sewers.

Tenn., Alton Park — See "Streets and Roads."

Tenn., St. Elmo — See "Streets and Roads."

O., Columbus—Making plans 746 ft. 6 and 8 in. sanitary sewer, etc., in Ellsworth Ave., $1,694; 12,850 ft. 6- to 12-in. sanitary sewer, etc., in alley east Eastview Ave., $29,393; 6,617 ft. 10- to 24-in. combined sewer, etc., in alleys north 18th and 20th Aves., $24,311. R. H. Simpson, city engr.

O., Columbus—See "Streets and Roads."

O., Dayton — Montgomery Co. making plans 12- to 48-in. storm and sanitary sewers in Residence Park, Keefer Plat and Fairview Knolls. $110,000. K. B. Allen, Keith Bldg., engr.

Mich., Adrian—Made plans sewage treatment plant, incl. pumping station, 85 x 86 ft. imhoff tank, 8,000 sq.ft. sludge drying beds. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Mich., Bloomfield Hills (Birmingham P. O.)—See "Waterworks."

Mich., Detroit — Made plans vitr. crock sewers, 2,457 ft. 10- to 20-in. in Lateral 4333, 10,408 ft. 15- to 30-in. and 763 ft. 33 and 36 in. circular section Lateral 4362, 115 ft. 12 in. Lateral 4383, 5,740 ft. 12- to 20-in. Lateral 4387, 2,546 ft. 12- to 24-in. Lateral 4388, 724 ft. 12- to 15-in. Lateral 4390, 659 ft. 12- to 15-in. Lateral 4391, 367 ft. 15 in. Lateral 4392, 804 ft. 15- to 18-in. Lateral 4395, 483 ft. 12- to 15-in. Lateral 4397, 489 ft. 12- to 15-in. Lateral 4398, 4,112 ft. 12- to 18-in. Lateral 4243, 1,913 ft. 12- to 18-in. Lateral 4403. P. A. Fellows, city engr.

Mich., Ecorse—Making plans 30,000 ft. 8- to 20-in. sanitary sewers in various streets. $120,000. M. L. Brown & Son, 407 Capitol, Bldg., Detroit, engrs.

Wis., Kenosha—Making plans 3 to 4 mi. 8- to 18-in. vitr. or concrete sewers in various streets. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., engrs.

Tex., Brownsville—Election soon $100,000 or more bonds extending water, electric and sewerage systems from present terminus to connect with new Villa Nueva Academy. Address A. B. Cloe, mayor.

Mo., Clayton—St. Louis Co. making preliminary plans sanitary sewers and laterals in Sewer Dists. 12, 13, 14, 15 and 16. F. M. Dozier, Court House, engr.

Mo., Jackson—Election June 30, $65,000 bonds 2 disposal tanks, 47,130 ft. 6- to 12-in. vitr. clay sewers, etc., in various streets. E. Flad & Co., 1312 Chemical Bldg., St. Louis, engrs.

Mo., La Plata—Voted $50,000 bonds complete vitr. clay sanitary sewerage system in various streets. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, engrs. Noted May 14.

Mo., St. Clair—Making preliminary plans 6- to 12-in. vitr. clay sanitary sewers in various streets. $35,000. E. Flad & Co., 1312 Chemical Bldg., St. Louis, engrs.

Mo., Sikeston — Plans election $150,000 bonds sanitary sewers in various streets, 50,000 ft. 8- to 48-in.

Mo., Troy — Making preliminary plans 31,560 ft. 6- to 12-in. vitr. clay sewers, manholes, etc., in various streets. $40,000. E. Flad & Co., 1312 Chemical Bldg., St. Louis, engrs.

Ariz., Flagstaff — Making plans sewage treating plant. Burns & McDonell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.

Calif., Alhambra—Voted $135,000 bonds extending sewers in various streets.

Calif., Santa Barbara—Made plans East Side lower sewerage system, 18,400 lin.ft. 6- to 14-in. vitr. pipe, 8,500 cu.yd. excav., etc. To exceed $40,000. G. D. Morrison, city engr.

Calif., Ventura—Voted $130,000 bonds, for extending sewers in various streets. Noted Apr. 30.

Calif., Yuba City—Making plans sewerage system and disposal plant. To exceed $25,000. E. Von Geldern, city engr.

Calif., Watsonville—Plans election $146,000 bonds extending sewers in various streets.

Ont., Toronto—East York Twp., Sammon Ave. Municipal Yard, making plans 3,200 ft. 15 in. rein.-con. and vitr. tile sewers in Cosburn Ave. $76,192. G. R. Jack, twp. engr.

BIDS DESIRED

Mass., Boston—July 1, by Dept. Pub. Wks., sewerage works in Oswego St., Boston proper; July 2, in Locust St., Dorchester; July 6, in La Grange St., West Roxbury, and July 7, Potomac St., West Roxbury, $25,000. J. A. Rourke, comr.

N. Y., Long Island City—June 29, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers, etc., in Flushing Ave. from Meta Pl. to Fresh Pond Rd. and in Fresh Pond Rd. from Flushing Ave. to Hemlock Pl., 2nd Ward.

N. Y., New York — June 29, by J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sewers in Willowbrook Rd., Bradley and Buchanon Aves.

N. Y., New York — See "Streets and Roads."

N. Y., West Seneca (mail Buffalo)—July 1, by Town Board, Lind Ave., Gardenville, sewerage system and disposal plant, in Sewer Dist. 5, here. $100,000. G. C. Diehl, 575 Ellicott Sq., Buffalo, engr.

N. J., Plainfield — July 6, by Common Council, City Hall, storm sewers in various streets. A. W. Vars, city engr.; adv. E. N.-R. June 25.

N. J., Sayreville—July 1, by Boro Council, 2,000 ft. 8 in. vitr. and 3,581 ft. 4- to 6-in. c.i. sanitary sewers in various streets. F. C. Schneider, New Brunswick, engr.

S. C., Leesville—July 28, by Town Bd. of Commissioners, at office of C. D. Barr, Jr., chn., 15,000 lin.ft 8 and 10 in. vitr. clay sewers, etc., in various streets. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, engrs. G. H. Bishop, consult. engr.

Fla., Deland—See "Streets and Roads."

Fla., Haines City — See "Streets and Roads."

Fla., Tampa—June 30, by City Commissioners, City Hall, constructing storm sewers in Jackson, Drew, Brush, Governor, Jefferson, Pierce, Morgan, Marion and Florida Sts. $26,000.

Miss., Belzoni—July 8, by City Council at office F. M. Pepper, city clk., improvements, extensions and additions to sanitary sewerage system. D. M. Forester, city engr.

O., Columbus—See "Streets and Roads."

Ill., Galesburg—See "Streets and Roads."

Ill., Winthrop Harbor—See "Streets and Roads."

Wis., Grantsburg—July 7, by C. A. Taylor, city clk., 8,800 lin.ft. 8 in., 2,000 ft. 10 in. and 840 ft. 12 in. vitr. sanitary sewers, etc., in various streets. $30,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs.

Sewers (Continued)

Calif., Beverly Hills—City Trustees taking new bids Sewer Contr. 3, 6,673 ft. 6- to 8-in. pipe; Contr. 4, 3046 ft. 8-in. pipe; Contr. 5, 8,582 ft. 8- to 12-in. pipe, $160,000 bonds voted. Former bids returned unopened due to error in proceedings. Salisbury, Bradbury & Taylor, Mortgage Guarantee Bldg., Los Angeles, engrs. Noted May 14.

Ont., Toronto—June 29, by H. E. Goddard, clk., East York Twp., Sammon Ave. Municipal Yard, electric driven air compressors or blowers, pipes, traveling crane, etc. Wynne Roberts Son & McLean, 88 Church St., consult. engrs.

BIDS RECEIVED

N. H., Manchester — L. B. Hoyt, surv., Dept. Highways, City Hall, completing construction and installing for city Beach Street Intercepting Drain, incl. branch drain and appurtenances, from T. G. Jewett, Jr., New Bedford, Mass., $114,968. Engrs. est. $130,216. Noted June 4.

Mass., Boston — Dept. Pub. Wks., June 15, sewerage works in Tremont St., etc., from D. Christoposo & Bros., 18 Hemlock St., Rosindale, $26,223. Noted June 11.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., June 17, sewers in 150th St., from Muccinni & Decker, **(A)** $749,850, from Hammen Constr. Co., 279 Madison Ave., Perth Amboy, N. J., **(B)** $546,830; sewer in 20th St., from J. Gallo, 203 Division St., Brooklyn, **(A)** $51,904, from Welsh Bros. Contg. Co., 32 Queens St., Astoria, **(B)** $35,738. Noted June 11.

O., Akron — W. F. Peters, dir. Pub. Serv., June 8, **(e. e. means engrs. est.)**, 17,620 ft. 8- to 18-in. vitr. clay sewer in Alton Dr. et al., and 12,520 ft. 8- to 18-in. in West Market St. et al., from L. Crano & Co., Peoples Savings & Trust Bldg., $54,412, and $48,993 respectively, e. e. $72,600 and $64,800 respectively; 270 ft. 39 in. brick and 400 ft. 8- to 14-in. vitr. clay sewer in South Main St., from Shullo Constr. Co., 990 Chalker St., $10,739, e. e. $12,000; 4,285 ft. sewer in Laffer Ave. et al., from W. McDowell & Sons Co., 4120 East 104th St., Cleveland, brick $22,947, segmental block $22,461. Noted June 4.

O., Cleveland — Cuyahoga Co., June 10, 5,500 ft. 8- to 60-in. vitr. clay sewer in Wagar Rd., Impvt. 600, from Gallagher-Burke Co., 1228 Bonnieview Ave., Lakewood, $66,648; 21,000 ft. 8- to 27-in. vitr. clay sewer in Chestnut Hill Dr., from Winterbottom-Connelly Co., 1406 West 25th St., $83,508. Noted June 4.

Calif., La Habra — Directors La Habra Sanitary Dist., 25,630 ft. 10- to 15-in. **(a)** vitrified or **(b)** concrete outfall sewers in various streets, from O. K. Hearte, 1530 Paloma Ave., Pasadena, **(a)** $39,348 **(b)** $38,835. Noted May 28.

Calif., Long Beach — From G. Giebisch, Virgil Walk, concrete sewer in Cherry Ave., 41,442 lin.ft. 8 in. pipe at $0.85 per ft., 3,717 ft. 10 in. $0.97, 8,972 ft. 12 in. $1.20, etc., total $65,712. Engrs. est. $72,636.

Wash., Centralia — City Council trunk sewer, laterals, treating plant, etc., from J. F. Shea & Co., Henry Bldg., Portland, Ore., $74,660. Engrs. est. $70,000. Noted June 4.

CONTRACTS AWARDED

Mass., Boston — Dept. Pub. Wks., City Hall, Boston, ½ mi. sewerage works for Brook Sewer, Private Land, Lawrence and Blue Hill Aves., here, to C. and R. Constr. Co., 67 Harrison St., E., $73,441. Noted May 14.

Mass., Boston—Dept. Pub. Wks., sewerage works in Western Ave., Brighton, to A. Cefalo, 316 Belgrade Ave., Rosindale, $19,015; in River St., Hyde Park, to A. Piatelli, 10 Ambrose Terrace, Dorchester, $24,051. Noted June 11.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Ave., sewers in Allerton Ave., to Knight & DeMicco, Inc., 448 East Tremont Ave., $19,815; Duncan St., to M. Del Balso, 660 East 221st St., $108,441. Noted June 11.

Pa., Gettysburg—Boro Council Chamber, sewage disposal plant, outfall sewer and Imhoff tanks, to H. C. Brooks, Martinsburg, W. Va., $49,950. Noted May 28.

Miss., Meridian—See "Streets and Roads."

O., Akron—W. F. Peters, dir. Pub. Serv., rebuilding 1,700 ft. 12- to 15-in. vitr. clay and 4,350 ft. 30- to 63-in. brick sewer preliminary to abolishing grade crossings at Buchtel Ave. and Exchange St., Contr. 1, to E. and W. McShaffrey, 574 Rhodes Ave., $118,995. Engrs. est. $150,000. Noted June 11.

O., Cleveland—City, 1,715 ft. 12 in. vitr. tile sewer in Brazil and Lakeport Rds., to N. Carroccio, 14109 Benwood Ave., $5,291; 1,025 ft. 12 in. vitr. tile sewer in Maywood Ave., to A. J. Galvin, Hunkin-Conkey Bldg., $2,873; 4,630 ft. 12- to 24-in. vitr. tile sewer in Neff Rd., H. P. Ante Constr. Co., Ulmer Bldg., $14,991; 1,450 ft. 12- to 24-in. vitr. tile sewer in East 149th St., to Hadded-Mall Co., Schofield Bldg., $5,482; 50 ft. 6 c., 285 ft. 4 ft. 9 in., 235 ft. 5 ft. and 350 ft. 5 ft. 3 in. segment block sewer in East 140th St., to Hadded-Mall Co., Schofield Bldg., $20,283. Noted May 28.

Wis., Watertown—F. Weber, city clk., 3,605 lin.ft. 8 and 10 in. vitr. and 556 lin.ft. 10 in. c.i. sanitary, also 5,630 ft. 10 and 24 in. vitr. storm sewers, etc., in various streets, to A. Luebke, 706 9th St., $25,218. Noted June 11.

Wis., Whitefish Bay—J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., Milwaukee, 9,350 ft. 42 in. concrete sewers, etc., in Whitefish Bay extension, here, to Nevada Constr. Co., Nevada, Ia., $215,110. Noted June 4.

Mo., St. Louis—Bd. Pub. Wks., 208 City Hall, 8,345 ft. 8- to 36-in. vitr. clay sanitary sewers in Harlem Creek Dist. 16, to Frazier Davis Constr. Co., Arcade Bldg., $25,930. Engrs. est. $35,500. Noted May 21.

Tex., San Antonio — For 1 mi. outfall sewer line from outside city limits to Mitchell Lake, to McKenzie Constr. Co., Travis Bldg., $95,000. Noted June 18.

Tex., Port Arthur—For 16,000 ft. sewer extensions in various street, to Kirkwood, Wharton & Lee, 300 Blk. West Commerce, San Antonio, $83,000. Noted June 4.

Okla., Wewoka—See "Waterworks."

Wash., Hoquiam—Sewers in 24th St., to F. A. Keasal Constr. Co., Hoquiam, $45,009.

Ont., Walkerville — Sewers in Lincoln, Victoria and Windermere Rds., to Merlo, Merlo & Ray, Sandwich St., Ford City. Engrs. est. $98,000.

Ont., Windsor—Sewers in Douglas Ave., to Merlo, Merlo & Ray, Sandwich St., Ford. Engrs. est. $35,000.

Bridges

PROPOSED WORK

Miss., Yazoo—See "Streets and Roads."

Tennessee—See "Streets and Roads."

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids May 11, bridge on Route 32, Sect. 4-B, Moultrie Co. F. T. Sheets, ch. highway engr. Noted May 28.

Ark., Dardanelle—Yell Co. (Dardanelle) and Pope Co. (Russellville), voted $600,000 bonds and Federal Aid appropriated $300,000 for rein.-con. and steel bridge to replace present pontoon bridge across Arkansas River, here. Noted Apr. 16.

Tex., Houston — Turning Basin Dist., City, and Harris Co., making plans concrete and steel bascule lift span bridge across Ship Channel, at 71st St. $200,000. J. C. McVea, city engr. Howe & Wise, 816 1st Natl. Bank Bldg., engrs.

Tex., Paducah—See "Streets and Roads."

Ont., London—Plans 275 ft. concrete and steel bridge, Ridout St. $100,000. W. P. Near, city engr.

BIDS DESIRED

N. J., Freehold—July 8, by Bd. Freeholders Monmouth Co., constructing Bridges F-31, 32, 33, 34, 37 and MN-52. B. B. Newcomb, dir.; adv. E. N.-R. June 25.

S. C., Beaufort — June 30, at office Bd. Directors Beaufort Co., 73 ft. rein.-con. bridge over Tide Water Creek, on State Route 30, Federal Aid Project 95C. A. T. Brown, Scoville Bldg., Orangeburg, engr.

Miss., Jackson—See "Streets and Roads."

Louisiana—June 30, by State Hy. Dept., Reymond Bldg., Baton Rouge, creosoted pile trestle bridge on State Aid Project 355-D, Winnfield-Chestnut Highway, 38,900 ft. creosoted and 28,000 ft. untreated lumber, and 27,000 ft. creosoted piling. W. B. Roberts, ch. engr.

Wis., Milwaukee—June 29, by F. Schumacher, secy. Park Bd., City Hall, superstructure of bridge and runways, at Mason St. $300,000-$400,000. Clas, Shepherd & Clas, 445 Milwaukee St., engrs. Noted May 21.

Wyoming—June 30, by Comrs. State Hy. Dept., Cheyenne, 140 ft. steel truss span on Wheatland-Douglas Rd., Federal Aid Project 165-A, Platte Co., $25,000; 130 ft. steel truss span bridge over Cottonwood Creek, Federal Aid Project 106, Washakie Co., $31,500; two 30 ft. span concrete bridge over Box Elder Creek, one 30 ft. concrete span bridge, etc., over Alkali Creek, also two 30 ft. span concrete bridge over La Prelle Creek, all on Federal Aid Project 166-A, near Careyhurst, Converse Co., $30,000; one 80 ft. steel truss and 4 timber span bridge, etc., on Federal Aid Project 165-A, near Wheatland, Platte Co., $26,000. J. F. Seiler, Cheyenne, highway engr. for above; four 19 ft. and two 18 ft. span timber bridges, also one 80 ft. steel and two 38 ft. steel I-beam span bridges, etc., on Federal Aid Project 178-A, Sheridan Co., $30,000. S. R. Wood, Sheridan, engr.

Wyoming—See "Streets and Roads."

Arkansas—See "Streets and Roads."

Washington — July 14, by State Hy. Comn., Olympia, one 200 ft. steel truss and 515 ft. concrete T-beam approach span bridge across Skokomish River, on State Rd. 14, Mason Co. J. W. Hoover, highway engr.

BIDS RECEIVED

North Carolina — State Hy. Comn., Raleigh, concrete bridges and culverts, on Project 127, Edgecombe Co., from Sparling Constr. Co., Nashville, $42,878; also on Project 405, Chatham Co., from J. S. Bowers, Whiteville, N. C., $47,526. Noted June 4.

Alabama—City Comn. of Mobile received estimates from Hedrick, Smith & Frost, engrs., Portland, Ore., for steel bridge across Mobile Bay from Mobile to Baldwin Co. $3,500,000.

Tex., Cameron—See "Streets and Roads."

California — State Hy. Comn., Sacramento, two 60 ft. and two 34 ft. span rein.-con. girder bridge across Truckee River, at Prosser Creek, also one 57 ft., one 30 ft. and two 42 ft. span rein.-con. girder bridge across Southern Pacific R.R. tracks, at Hinton, both 21 ft. wide, Nevada Co., from T. H. and M. C. Polk, Chico, $23,095 and $18,825 respectively; one 144 ft. open and two 40 ft. approach span bridge across Truckee River, near Boca, Nevada Co., from Rocca & Caletti, 609 C St., San Rafael, $30,191.

California—Yuba Co. (Marysville) and Sutter Co. (Yuba City), 585 ft. steel and timber bridge over Bear River, from Jenkins & Elton, 36th and Y Sts., Sacramento, $36,344.

CONTRACTS AWARDED

Mass., Boston—Dept. Pub. Wks., rebuilding concrete and steel bridge over tracks New York, New Haven & Hartford R.R. tracks, at Massachusetts Ave., to Boston Bridge Wks., 47 Winter St., $64,390. Noted June 18.

Miss., Columbus—Lowndes Co., creosoted timber spring span and two 90 ft. steel span bridge over Tombigbee River, to S. J. Riley, International Life Bldg., St. Louis, Mo., $147,460.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 2, Sect. 3-V, Jackson Co., to W. Lough & Sons, Marion, $14,661; bridge on Route 22, Sect. 11-B, Cook Co., to Maderis-Barnett Co., Greenfield, $27,223; bridge on Route 31, Sect. 18-B, Fulton Co., to M. R. Deyo, Peoria, $69,905; bridge on Route 40, Sect. 11-B, Carroll and JoDaviess Counties, to Chernus Constr. Co., Minneapolis Minn., $49,846. Noted May 28.

Ia., Atlantic — Cass Co., 5 box and 5 circular culverts, to Wilson Concrete Co., Red Oak, $10,000; 18 culverts, to F. O. Akin, Atlantic, $17,800; 50 ft. pony truss bridge, to Standard Bridge Co., City Natl. Bank Bldg., Omaha, Neb., $2,799; grading 1.941 mi. Federal Aid Project 44-C, to G. W. Condon, 510 Farnam, Omaha, Neb., at $0.189 per cu.yd.

Minnesota — Inter-City Bridge Com., C. M. Babcock, chn., 1246 University Ave., St. Paul, 1,600 ft. rein.-con. bridge, incl. 4 river piers, three 300 ft. and two 140 ft. spans, etc., over Mississippi River, between St. Paul and Minneapolis, to J. O. Heyworth, Inc., 606 South Michigan Ave., Chicago, Ill., main structure $1,332,984, also supplementary contract, tentatively, for Minneapolis approach $105,000. Noted Apr. 30.

Missouri — State Hy. Dept., Jefferson City, to J. A. Carlson, Macon, one 45 ft. rein.-con. deck girder span, etc., over Coon Creek $10,263, one 60 ft. steel truss span, etc., over Little Fabius Creek $8,870 and two 12 ft. rein.-con. slab spans, etc., over Norwegian Creek $3,618, all in Knox Co.; to Robertson-Carmean Co., Caruthersville, three 45 ft. rein.-con. deck girder spans, etc., over South River, Marion Co., $7,517; to Cole Jobe, Clarksburg, two 12 ft. rein.-con. slab spans, etc., over Dry Fork Branch $2,515, two 12 ft. rein.-con. slab spans, etc., over creek $2,458, two 12 ft. rein.-con. slab spans, etc., over Long Branch $2,643, two 10 ft. rein.-con. slab spans, etc., over Bailey Branch $1,997, all in Moniteau Co.; to F. C. Teach, Morocco, Ind., one 80 ft. steel truss span, etc., over Tobin Creek, Scotland Co., $10,456; to Pioneer Constr. Co., 101

Bridges (Continued)

New York Life Bldg., Kansas City, five 80 ft. steel truss spans, etc., over east fork of Black River, Reynolds Co., $34,952; to R. F. Williams, Charleston, three 20 ft. I-beam spans, etc., over Drainage Ditch 7 $6,402, three 20 ft. I-beam spans, etc., over Drainage Ditch 3 $5,731, both in Pemiscot Co.; to L. A. Woods Constr. Co., Smithville, two 20 ft. rein.-con. slab spans, etc., over stream, Audrain Co., $5,419; to Schull & Milton, California, two 20 ft. rein.-con. slab spans, etc., over Sappington Branch $2,785, two 12 ft. rein.-con. slab spans, etc., over Birdsong Creek, $2,120, both in Moniteau Co.; to Kelly & Underwood, Granby, two 12 ft. rein.-con. slab spans, etc., over creek, Knox Co., $3,500; to Fogleman & Davidson, Eugene, one 120 ft. and two 80 ft. steel truss spans, etc., over Saline Creek, Miller Co., $27,379; to F. T. O'Dell, New London, two 80 ft. steel truss spans, etc., over middle fork of South Fabius Creek, Scotland Co., $24,182; to J. R. Feigle Co., Evansville, Ind., three 16 ft. I-beam spans, etc., over DrainageDitch 24, $5,390, three 14 ft. I-beam spans, etc., over Drainage Ditch 22, $4,865, both in Pemiscot Co.; to Gaines Bros., Fairland, Okla., two 18 ft. rein.-con. slab spans, etc., over Grindstone Creek $2,840, one 45 ft. rein.-con. deck girder span, etc., over Silver Fork, $11,029, both in Boone Co.; to M. E. Gilliloz, Monett, two 20 ft. rein.-con. slab spans, etc., over Little Beaver Creek $5,111, two 12 ft. rein.-con. slab spans, etc., over stream, $5,184, both in Phelps Co.; to Thomas & Samson, Bonnots Mills, repairing bridge over Bourbouse River 4 mi. east of Union, Franklin Co., $995. Grand total $198,221. Noted June 11.

Texas — Palo Pinto Co., bridge over Brazos River, at Brazos, and bridge 7 mi. north of Palo Pinto, to Austin Bridge Co., 1815 Clarence St., Dallas, $39,500. Engrs. est. $40,000.

Tex., Huntsville — See "Streets and Roads."

Tex., San Antonio—For 2 span 110 ft. rein.-con. and steel bridge across San Antonio River, at St. Marys St., to McKenzie Constr. Co., Travis Bldg., $30,500. Noted June 4.

Washington—State Hy. Comn., Olympia, 4 Everett-Marysville bridges, incl. nine 178 ft. and one 138 ft. steel truss, two 290 ft. steel swing, one 145 ft. steel vertical lift, and approximately 2,260 ft. concrete girder spans, etc., on State Rd. 1, Snohomish Co., to J. A. McEachern Co., Inc., 532 Colman Bldg., Seattle, $972,927. Noted May 14.

Dams

CONTRACTS AWARDED

Calif., Merced—Merced Irrigation Dist., Barcroft Bldg., Schedule 1, 14 plate steel gate leaves, to Llewellyn Iron Wks., Main and Redondo Sts., Los Angeles, $40,930; Schedule 2, 14 cast steel bearing plates, and two 84 sect. crest. plates, to Stockton Iron Wks., Stockton, $2,360 and $1,759 respectively; Schedule 3-8, 75 ton traveling crane, to Cyclops Iron Wks., 837 Folsom St., San Francisco, $12,248; Schedule 9, 1 vertical centrifugal pump with motor, 2 hydraulic ejectors, and 2 pump, sump covers, to United Iron Wks., 580 2nd St., Oakland, $1,581; Schedule 10, 1 oil pressure pump and motor, to Smith-Booth-Usher Co., 50 Fremont St., San Francisco, $2,750; Schedule 11, oil supply tank, pipe and valves, to Moore Dry Dock Co., foot of Adeline St., Oakland, $523. Noted May 7.

Excavation, Drainage, Irrigation, Levees

PROPOSED WORK

Mass., South Boston (Boston P. O.)—Boston Harbor Oil Co., 279 Northern Ave., Boston, plans dredging in Boston Harbor and constructing pile pier in extension of breakwater east of Commonwealth Pier 6, here. $25,000 or more. Engineer not selected.

Tex., Brownsville—Cameron Co. election soon $600,000 bonds for drainage work, concrete canals and ditches in El Jardin D. D., c/o E. Setnman, Brownsville. O. C. Dancy, co. judge.

BIDS DESIRED

N. Y., Buffalo—July 6, by Comn. Public Wks., dredging and widening Buffalo River westerly side of channel from south line of Lots 65 to point 550 ft. northerly. To exceed $40,000. C. E. P. Babcock, Municipal Bldg., engr.

DRAIN—GRAND RAPIDS, MICH.

Following are lowest three bids opened by City, Apr. 22, for Coldbrook Creek Drain, Contr. F-6, (A) Swingle & Robinson, Wyandotte; (B) Central Construction Co., Chicago Heights, Ill.; (C) Peninsular Construction Co., Grand Rapids. The unit bids are as follows:

	A	B	C
2,498 ft. reinforced concrete drain, sta. 0 to sta. 24 and 98	$21 60	$26 06	$25 00
1,852 ft. reinforced concrete drain, sta. 25 and 10 to sta. 43 and 62, type "C" (arch)	20 40	14 74	20 00
1,852 ft. reinforced concrete drain, sta. 25 and 10 to sta. 43 and 62, type "D" (box)	22 47	17 01	
Junction chamber at Fuller N. of Michigan (lump sum)	500 00	250 00	500 00
Overflow chamber at Fuller Ave. and Lyon St. (lump sum)	200 00	80 00	250 00
4,430 ft. vitrified clay or concrete pipe underdrainage	80	1 00	60
150 cu.yd. additional earthwork	1 50	1 00	2 00
5 M ft. BM timber left in place	60 00	30 00	65 00
100 cu.yd. additional class "A" concrete	12 00	17 00	15 00
10 cu.yd. additional class "C" concrete	9 00	10 00	10 00
10,000 lb additional steel reinforcement	06	04	05
50 cu.yd. gravel refilling	3 00	3 00	3 00
2 cu.yd. additional brick masonry	50 00	15 00	25 00
6 manholes, type "A", type "B" or type "D"	75 00	60 00	90 00
A.S.T.M. vitrified clay or concrete pipe and specials ($270 18)	60%	50%	20%
Extended totals	$99,205	$100,331	$106,579

CONTRACTS AWARDED

Mass., Chatham—Dept. Pub. Wks., Div. Waterways, Boston, dredging 50,000 cu.yd. material from Mitchels River, here, to Bay State Dredging Co., 62 Condor St., East Boston, $16,520.

N. Y., Buffalo — Dept. Pub. Wks., Municipal Bldg., dredging Sect. 4, Part 1, Cazenovia Creek, to Cleveland Eng. Constr. Co., 778 The Arcade, Cleveland, O., $0.42 per cu.yd. Noted Apr. 23.

N. Y., New York—Dept. Docks, Pier A, North River, dredging between Pier new No. 1 and Pier Old No. 4 and removing old Pier 1, Contr. 1859 to E. Breyman, 17 Battery Pl., $24,110. Noted June 11.

Mich., Saulte Ste. Marie—Edison Saulte Electric Co., 115 Ashmun St., deepening headrace of government power plant, from Dunbar & Sullivan Dredging Co., Dime Bank Bldg., Detroit, $115,000. Noted May 21.

Ill., Danville—Hoopeston D. D., c/o Clark & Hutton, attys., 1st Natl. Bank Bldg., 13,500 cu.yd. excav. open ditch, to C. M. Gassett, Hoopeston, $4,500; 1,340 ft. 12- to 27-in. vitr. clay drain tile laid, etc., to Anno & Nohl, Havana, $27,875.

Minn., Fairmont—W. M. Canfield, aud. Martin Co., approximately 25,541 lin.ft. 6- to 28-in. tile for Judicial Ditch 111, to Ceylon Cement Tile Co., Ceylon, $16,486. Noted June 4.

Neb., Lincoln — Sanitary Dist. 1, Lancaster Co., c/o Peterson & Devoe, Bankers Life Bldg., to Martin-Day Co., 310 Little Bldg., new channel Salt Creek and diversion dams, 135,000 cu.yd. excav. at $0.10 per cu.yd., one hundred 16 ft. cypress piling $1.75, and 18.96 ft. lumber $120 per ft. Noted June 18.

Okla., Ardmore—Johnson Bros., excavation for 1 story, 80 x 190 ft. cold storage plant, rein.-con. and brick, plain foundation, to T. Snelson, Ardmore, $11,116. This corrects report in June 18 issue.

Okla., Chandler—Lincoln Co., cleaning Kickapoo D. D. 4, 88,300 cu.yd. excav., 371 cu.yd. concrete, etc., to O. M. Cole, Luther, $22,863. Engrs. est. $30,000. Noted May 14.

Okla., Wewoka—Seminole Co., 392,000 cu. yd. excav. in Wewoka Creek D. D., to D. Long, Wewoka, approximately $36,000.

Ont., Owen Sound—Dept. Pub. Wks., Ottawa, dredging harbor, to Canadian Dredging Co., King St., Midland, $88,500.

British Columbia — S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., dredging Courtenay River channel, etc., to Arnett Dredging Co., Dominion Bldg., Vancouver, $35,000. Noted Apr. 30.

Streets and Roads

PROPOSED WORK

Mass., Boston—Dept. Pub. Wks. plans reconstructing and improving Columbia Rd. from Upham Corner to Blue Hill Ave., Dorchester, $91,000 bonds voted; also reconstructing Broad St. from State St. to Atlantic Ave., here, $37,000 bonds voted. R. A. Rourke, comr.

Mass., Boston — Dept. Pub. Wks. plans resurfacing and improving Warren St., Roxbury, $75,000; Meridian St., East Boston, $57,400; and Oliver St., City Proper, $30,000. J. A. Rourke, comr.

Mass., Cambridge (Boston P. O.)—Plans reconstructing 6th St. from Otis to Thorndike Sts. $35,000 appropriated. Engineer not selected.

Mass., Dorchester (Boston P. O.)—Street Laying Out Dept., City Hall, plans constructing Wales Pl. and Rosemont Rd. as highways, here. $25,000. J. F. Sullivan, secy.

Mass., Melrose — Bd. Alderman plans macadamizing Rockland St., Lyde Ave., etc., $35,000. Engineer not selected.

R. I., Providence—Pub. Wks. Dept. plans reconstructing North Main St. as boulevard between Grand View and White Sts. $198,000 appropriated. W. F. Slade, chn.

R. I., Providence — Plans asphalt resurfacing Glenbridge Ave., Dexter, Peace and Killingly Sts. $25,000. W. F. Slade, chn. Pub. Wks.

N. J., Roselle (Ind. br. of Elizabeth)—Plans paving Golf Terrace and Drake Ave. $110,000.

W. Va., Beckley — Raleigh Co. election July 11, $80,000 bonds, improving roads in Clear Fork Dist. W. T. Campbell, Beckley, engr.

N. C., Camden — Camden Co., R. L. Whaley, chn. co. highway comn., Belcross, plans grading and surfacing 30 mi. road from South Mills to Old Trap.

N. C., Morehead City—City, L. Hamilton, mayor, plans curbing, guttering, paving, sidewalks, and extending sewers in various streets. $125,000.

N. C., Smithfield—Plans extensive paving program. W. L. Fuller, city clk.

Ga., Albany—Making plans improving 40 blocks various streets. $200,000. C. Q. Wright, City Hall, engr.

Fla., Wauchula—Hardee Co. voted $50,000 bonds, constructing 2 mi. Limestone-Lilly Rd. to connect with DeSoto Co.

Miss., Jackson — Hinds Co. soon takes bids grading and hardsurfacing 4.61 mi. Jackson-Tougaloo Rd. $48,000. M. L. Culley, city engr.

Miss., Ripley — Tippah Co. voted $75,000 bonds, roads in Blue Mountain vicinity.

Miss., Yazoo City—Yazoo Co. soon takes bids grading, bridging and hardsurfacing 4.5 mi. Bee Lake-Eden Rd., 18 ft. $120,000. R. C. Limerick, Jackson, engr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, takes bids about July 13, grading, bridging, and concrete or asphalt on stone surfacing 6 mi. Rockdale-Mt. Pleasant Rd., Maury Co.; concrete or bituminous concrete paving 5 mi. Nashville-Una Rd., Davidson Co.; and grading, etc. 7 mi. Pulaski-Maury Co. line Rd., Giles Co. J. G. Creveling, highway comr.

Tenn., Alton Park—Voted $35,000 bonds for curbing, sewers, etc., in various streets.

Tenn., Cleveland—Election July 8, $50,000 bonds, grading and paving various streets.

Tenn., St. Elmo—Voted $60,000 bonds, for streets, curbing, guttering, sewers and park improvements.

Kentucky — State Hy. Dept., Frankfort, rejected bids oil or tar surfacing 7 mi. Project 32-A, Bourbon Co., $4,657, 25.8 mi. Projects 17-D, E and F, Franklin and Scott Counties. Noted May 14.

O., Canton — Plans asphalt paving Superior Ave. N. E., $40,000; improving 9th St. S. W., $40,000-$50,000; widening and repaving McKinley Ave. N. W., $60,000. W. E. Sarver, City Hall, engr.

O., Cleveland — Plans opening, widening and paving Chester Ave. from East 30th to East 40th Sts. $200,000. R. H. Hoffman, City Hall, engr.

O., Cleveland—Bd. Comrs. Cuyahoga Co., plans paving 7 mi. Warrensville-Center Rd., 60 ft. $1,500,000. F. Lander, Court House, engr.

O., Columbus — Making plans grading, laying necessary water mains and sewer connections and paving with (a) asphalt (b) brick and (c) concrete 1,884 ft. Tulane Rd., 26 ft., (a) $34,993 (b) $43,910; 2,013 ft. Binns Blvd., 24 ft., (a) $49,000 (b) $61,000; 620 ft. alley west 5th St., 20 ft., (b) $5,576 (c) $4,948; 1,206 ft. Harris Ave., 26

Streets and Roads (Continued)

ft., (a) $17,100 (b) $22,135. R. H. Simpson, city engr.

O., Dayton—Plans brick on concrete paving, 8,000 sq.yd. Riverview St. from Salem to Grafton Sts. $44,000. J. F. Hale, city engr.

Mich., Detroit—Plans asphalt on 8 in. concrete paving 16,850 sq.yd. Filbert St. $75,950, 1,865 sq.yd. Cutler Ave. $8,400, 5,120 sq.yd. Rich Ave. $22,990, 4,310 sq.yd. Dearing Ave. $19,360, 5,120 sq.yd. Peter Smith Ave. $19,360, 1,330 sq.yd. Ellery St. $6,000, 1,645 sq.yd. Thomas Ave. $7,420, 1,785 sq.yd. Pickford Ave. $8,010, 1,785 sq. yd. Petoskey Ave. $8,640, 480 sq.yd. Dexter Blvd. $2,160, 26,650 sq.yd. Margaretta Ave. $115,750, and 2,300 sq.yd. Wyoming Ave. $10,350. P. A. Fellows, city engr.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Nov. 25, concrete surfacing Route 22, Sect. 21, Lake Co., and Fish Hatchery, Woodford Co. F. T. Sheets, ch. highway engr. Noted Apr. 2.

Ill., Granite City—Soon takes bids grading, curbing and brick or concrete surfacing Maple, 19th and 20th Sts. $100,000. W. W. Kerch, 1st Natl. Bank Bldg., engr.

Ill., Peoria—Plans grading, curbing and asphalt surfacing 3 blocks East Republic Ave. $17,596; grading, curbing and vitr. brick on concrete surfacing 2 blocks California Ave., $9,571; and grading, curbing and concrete surfacing 1 block East Gift Ave., $7,812, all 30 ft. wide. W. Backes, City Hall, engr.

Ia., Des Moines — Making preliminary plans grading, curbing and hardsurfacing 8th, Loomis and Croker Sts. $45,760. K. C. Kastberg, City Hall, engr.

Minn., Moorhead—Plans paving 6 blocks 1st Ave. W. between 8th and 11th Sts. and 10th St. S. between 1st and 4th Aves. $25,000. R. G. Price, city clk.

Mo., Carrollton—R. M. Adams, city clk., soon takes bids grading, curbing, 6 in. concrete paving, etc., 10 blocks West 1st St., etc., 24 ft. $25,000. W. W. Robertson, City Hall, engr.

Mo., Clayton—St. Louis Co. takes bids about July 7, improving Hanley Rd., 10,290 yd. grading, 10,625 ft. curbing and guttering, 15,700 sq.yd. macadam first base, 19,700 sq.yd. second base, 19,700 sq.yd. asphalt surfacing, etc. $77,000. Keck Surveying Co., 721½ Chestnut St., St. Louis, engrs.

Mo., St. Louis — Bd. Pub. Wks. making plans curbing, concrete or asphaltic concrete paving, etc. Dewey St. from Osceola to Bingham Sts., $4,650 to $5,000, and Detonty St. from Newstead to Vandevanter Sts., $7,500 to $8,100; asphalt, Warrenite, Willite or asphaltic concrete repaving, etc. Garfield Ave. from Prairie to Grand Sts. $18,500 to $21,000, Garfield Ave. from Sarah to Prairie Sts. $26,100 to $31,000, Hawthorne Blvd. from Longfellow to Grand Sts. $102,000 to $119,300, Hartford Ave. from Grand to Morganford Sts. $58,300 to $72,200, Lynch St. from 13th to Gravois Sts. $60,100 to $71,000, Maryland Ave. from Euclid Ave. to Kingshighway $16,050 to $16,800; concrete or vitr. brick repaving, etc. McCune St. from Tamm St. to Frisco Railroad tracks, $28,200 to $33,300; curbing, asphaltic concrete, asphalt, Warrenite or Willite paving Minnesota St. from Catalan to Davis Sts., $26,000 to $32,150; vibrolithic concrete, Willite, asphalt, Warrenite or brick paving, etc., Tiffany St. from Rutger to Chouteau Sts., $13,900 to $16,200. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis — Citizens Gasoline Tax Com. & Streets, Sewers & Wharves com. of Bd. Aldermen, allotted $6,667 gasoline tax funds repairing and resurfacing Skinker Rd. from Wydown to point 1,000 ft. south, $12,488, for Washington Blvd. from Grand to Spring Sts.; $9,450 for Lucas Ave. from 11th to High Sts., $7,866, Bway. from Cass Ave. to Mullanphy St.; $14,820 Chouteau St. from 1st St. to Bway.; $22,128, 22nd St. from Cass Ave. to Washington Blvd., $33,954 13th St. from Biddle to Branch Sts.; $5,980 Enright St. from Hamilton to Hodiamont Sts.; $3,946, Lee St. from Newstead to Taylor Sts.; $7,800, Garfield St. from Kingshighway to Union St.; $16,000, Union St. from Page to Easton Sts.; $7,000, Spring St. from Laclede to Pine Sts.; $30,000 Bway. from Wabash Bridge north to Halls Ferry Rd.; and $30,000, South Bway. from Nebraska Ave., south. A. Brooks, City Hall, chn.

Mo., Sullivan — City Clerk, City Hall, takes bids about July 7, combined curbing and guttering 9,400 ft. and rein.-con. paving approximately 15,000 sq.yd. various streets. Alexander Eng. Co., 517 Woodruff Bldg., Springfield, engrs. Noted June 18.

Ark., Van Buren — Making preliminary plans grading, curbing and hardsurfacing 28 blocks North 11th, 12th and 13th Sts.

Tex., Ft. Worth — Tarrant Co. plans widening Ft. Worth section of Ft. Worth and Dallas Highway 36 ft. $600,000. H. A. Davis, 1954 Hemphill St., engr.

Tex., Kerrville — Election soon $50,000 bonds, improving various streets. Engineer not announced.

Tex., Paducah—Cottle Co., election soon $75,000 bonds, grading, bridging and gravel surfacing about 9 mi. roads radiating from here. J. H. Whatley, co. judge.

Tex., Wichita Falls—Election soon $100,000 bonds, paving various streets. F. M. Rugely, city engr.

Okla., Hobert—Plans grading and concrete surfacing 5 blocks West Kiowa Ave., 40 ft. $25,000. Shockley Eng. Co., Graphic Arts Bldg., Kansas City, Mo., engrs.

Okla., Lindsay — Making preliminary plans grading and paving 9 blocks Creek and Kiowa Aves., 26 ft. $40,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Perry—Noble Co. voted $900,000 bonds, grading and paving 70 mi. various highways. J. M. Page, Oklahoma City, highway engr. Noted May 28.

Okla., Tahlequah—Soon takes bids grading, curbing and 6 in. concrete surfacing Delaware, Kee-too-wah and Water Aves. $32,055. Clonts-Morgan Eng. Co., Muskogee, engrs.

Wash., Everett—Making plans 6 in. Portland cement or 5 in. concrete paving Bway. and Pine Sts. $50,000.

Wash., Hoquiam—City Council takes bids about July 9, concrete paving Monroe and River Sts. et al., 30 ft. $56,224. W. L. Lovejoy, city engr.

Wash., Tacoma—Soon takes bids paving Tacoma Ave., Starr and North 30th Sts.; also 16 in. watermains in North Proctor St., etc. $63,000. C. E. Putnam, city engr.

Calif., El Centro—Imperial Co. making plans paving 19 mi. highway between Calexico and state highway, Co. Rd. Dist. Impvt. 6. $250,000 or more. P. E. Kressly, H. W. Hellman, Bldg., Los Angeles, engr.

Calif., Glendale — Plans 8 in. concrete paving 4 mi. San Fernando Rd., 40 ft. City appropriates $440,000 and Los Angeles Co. $60,000 toward cost.

Calif., Los Angeles—Bd. Pub. Wks. takes bids about July 6, grading, paving, curbing, sidewalks asphaltic concrete paving approximately 6,000 ft. Livingston Pl., Chester, Acacia Barbee, 65th, and 14th Sts., Vineland, Saugus, Griffin, and 42nd Aves., etc., to exceed $25,000; also in 4,000 ft. 30th, Delphi, Kearsarge and 4th Sts., etc. H. A. Van Norman, City Hall, engr.

Calif., Nevada City—Plans election $50,000 bonds, macadamizing and scarifying various streets.

Calif., Pasadena—Election July 21, $700,000 bonds, guttering, curbing, sidewalks, 2 in. asphaltic concrete on 7 in. concrete paving Green St. Noted Mar. 26.

Calif., San Diego—Common Council plans improving Moore St., 57,009 sq.ft. 1½ in. asphaltic concrete on 5 in. concrete paving, 5,381 lin.ft. curbing, 26,895 sq.ft. sidewalks, 7,216 cu.yd. excav., 6,539 cu.yd. embankment, etc. F. A. Rhodes, city engr.

Calif., San Francisco — City and San Francisco Co., making plans constructing Ocean Shore right-of-way boulevard. To exceed $25,000. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — City and San Francisco Co. plan election $10,000,000 bonds, extending city boulevard system, purchase land for extensions, golf course and park improvements, etc. M. M. O'Shaughnessy, city engr.

Calif., San Rafael—Marin Co. made plans improving roads in Rd. Dist. 12, 9,289 cu. yd. excav., 18,513 lin.ft. concrete curbing and guttering, 174,485 sq.ft. asphaltic concrete paving 73,180 sq.ft. concrete paving, 245,240 sq.ft. surfacing, etc. H. E. C. Feusier, 84 Madrone Ave., San Anselmo, engr.

Ont., Niagara Falls — Plans curbing, guttering and asphalt paving 8,000 sq.yd. 2nd Ave. $30,044. Work will probably be done by day labor. T. S. Scott, city engr.

Ont., Ottawa — Bd. Control, soon takes bids asphalt paving Holland and Darling Aves. A. J. Macallum, City Hall, engr.

BIDS DESIRED

New Hampshire—June 30, by State Hy. Comn., Concord, rein.-con. paving 0.85 mi. highway in Salem; graveling 1.25 mi. highway in Wolfeboro; and modified asphalt surfacing 1.07 mi. 2 sections highway in Hampton. F. E. Everett, comr.

Massachusetts—June 30, by Dept. Pub. Wks., Boston, bituminous macadam paving 12,865 ft. highway in Groton, $75,000, 3,900 ft. highway in Boylston, $25,000, 4,000 ft. highway in Stockbridge, $25,000, 5,600 ft. highway in Wayland, $35,000, and 1,800 ft. highway in Enfield, all 18 ft. wide. W. F. Williams, comr.

Mass., Boston — June 30, by Dept. Pub. Wks., granite block paving Broad St. from State St. to Atlantic Ave. and Hawley St. from Milk to Summer Sts. $25,000. J. A. Rourke comr.

New York—July 15, by A. W. Brandt, comr. Highways, Albany, constructing highways in Cayuga, Madison, Oneida, St. Lawrence, Wayne, Wyoming and Steuben Counties; reconstructing highways in Albany Cayuga, Columbia, Essex, Franklin, Onondaga, Suffolk and Steuben Counties; adv. E. N.-R. June 25.

N. Y., Brooklyn — July 2, by Park Bd. Dept. Parks, 64th St. and 5th Ave., New York City, improving West Drive, Prospect Park between Plaza and 15th St., here. F. D. Gallatin, pres.

N. Y., New York—July 2, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., granite block on concrete repaving East 204th St., North and South side Ramp Roadways; sheet asphalt paving Brook Ave.; sewers in Pelham Parkway N., Wallace and Holland Aves.

Pennsylvania — July 7, by Dept. Hys., Harrisburg, bituminous on concrete or rein.-con. paving, about 33 mi. highway in Armstrong, Indiana, Blair, Cambria, Bucks, Butler, Chester, Erie, Huntingdon, Lehigh, Lycoming, Montgomery and Washington Counties. P. D. Wright, secy. Highways; adv. E. N.-R. June 25.

Pa., Phila.—July 15, by Delaware River Bridge Joint Comn., Widener Bldg., Contr. 23, grading, paving, etc. along Phila. approach between Delaware Ave. and 4th St., and in adjacent streets, for bridge over Delaware River, connecting Phila., Pa. and Camden, N. J. G. Pinchot, chn.; adv. E. N.-R. June 25.

Md., Baltimore—July 1, by Bd. Awards, grading, curbing, concrete paving 6,800 sq.yd. Contr. 292-OA; grading 33,000 cu.yd. Contr. 291-OA and 24,100 cu.yd. Contr. 290-OA. L. G. Turner, 214 East Lexington St., acting chn. Paving Comn.

Virginia—July 2, at office State Hy. Comn., Capitol Sq., Richmond, improving roads on Route 31, Project F-379-B, Dinwiddie Co. C. S. Mullen, ch. engr.; adv. E. N.-R. June 25.

Virginia—July 2, at office State Hy. Dept., Richmond, improving roads and building bridges on Route 114, Project F-190, Route 11, Project F-344-A, both Wise Co.; and Route 23, Project F-355-A, Giles Co. C. S. Mullen, ch. engr.

W. Va., Bridgeport — July 6, by City Clerk, grading and rein.-con., concrete or bituminous macadam surfacing 11,780 sq.yd. 3rd and James Sts., Grand and Orchard Aves. Horner Bros., Clarksburg, engrs. Noted May 21.

Fla., Deland — July 1, by Bd. Bond Trustees, curbing, guttering, brick, concrete, or bituminous paving 140,000 sq.yd. various streets; also 3 mi. 12- to 36-in. storm drains and drain wells, with accessories. J. B. McCrary Co., Citizens & Southern Bank Bldg., Atlanta, Ga., engrs.

Fla., Dundee—July 7, by J. L. Olson, city clk., paving 55,000 sq.yd. and 15,000 yd. sidewalks on various streets. H. S. Jandson Eng. Co., Elberton, Ga., engrs.

Fla., Eagle Lake—July 3, by D. M. Delk, city clk., paving 77,000 sq.yd. various streets. E. C. Camp and associates, Bartow, engrs.

Fla., Tampa — July 7, by City Comn., grading, curbing, 2½ in. asphalt blocks on 6 in. concrete paving Buffalo St. from Florida to Main Sts., $26,000; Main St. from Plymouth to Buffalo Sts., $25,000; Main St. from Palm to Park Aves., Palm Ave. from Garcia to Main Sts., South Albany from Watrous to Deckle Sts. and Woodlawn Ave. from Florida to Ola Sts. $26,000. R. D. Martin, City Hall, engr.

Ala., Birmingham — Aug. 1, by City Comn., 2 in. asphalt on 5 in. concrete surfacing 8 blocks 35th St., 40 ft., $58,725, 5 blocks 16th Pl. S. W., 16th Way S. W., 17th St., Waco and Fulton Aves., 37 ft., $27,600; and grading, concrete curbing, cement sidewalks, brick and concrete storm sewers, and 2 in. bitulithic on 6 in. concrete surfacing 6 blocks Huntsville Rd., 24 ft. $27,000, concrete surfacing 306 ft. 20th Pl. and 15th Court, 24 ft., $6,250. A. J. Hawkins, city engr. Noted June 18.

Miss., Greenville—July 3, by Washington Co. Hy. Comn., grading, etc., 4.5 mi. Trail Lake-Sunflower Rd., 20,000 cu.yd. embankment. E. C. Wild, Leland, ch. engr. O. C. Kulicka, asst. engr. Noted June 4.

Miss., Jackson — July 8, by Supervs. Hinds Co. at office Chancery Clerk, clearing, grubbing bridging, etc., 10 mi. Jackson-Hazelhurst Rd., Federal Aid Project 82-A, 18 ft., and 4.6 mi. Canton-Jackson Rd., Federal Aid Project 79-A. H. C. Dietzer, Jackson, engr. Noted Feb. 12.

Miss., Pittsboro—July 10, by Bd. Supervs. Calhoun Co. at office of Chancery Clerk, improving 23.288 mi. Grenada-Houston Rd., Federal Aid Project 152-A, 38,779 cu.yd. gravel 1 mi. haul, 280,420 units gravel ½ mi. overhaul, etc.; also Federal Aid Project 152-B, 8,690 cu.yd. gravel 1 mi. haul, 16,675 units gravel ½ mi. overhaul, etc. H. C. Dietzer, Jackson, engr.

Louisiana—July 2, by State Hy. Comn., Reymond Bldg., Baton Rouge, constructing 4.17 mi. Algiers-Belle Chasse Highway, State Project 474-B, Orleans and Jefferson

Streets and Roads (Continued)

Parishes; also furnishing gravel or clam shells for surfacing above. W. B. Robert, highway engr.

Louisiana—July 9, by State Hy. Dept., Reymond Bldg., Baton Rouge, paving 6.15 mi. State Project 453 A, Haynesville-Shongaloo Highway, Claiborne Parish, and 14.93 mi. State Project 441 A, Lafourche Parish; also 28,000 cu.yd. clam shells, etc., paving latter project. W. B. Robert, highway engr.

La., Oberlin—July 9, by Allen Parish Jury, grading and graveling 13,000 cu.yd. various streets in Ward 4, 18 ft. $75,000. C. H. Fenstermaker, Elizabeth, engr.

O., Columbus—June 30, by W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and paving with **(a)** asphalt **(b)** brick and **(c)** concrete, 7,791 ft. Catherine, Charles and Huron Sts., Frederick, Linden, New and Noonday Aves., 24 ft. **(a)** $126,401 **(b)** $160,135; 2,641 ft. alleys North Long St. and west Wagner St., Garfield, Linwood, Michigan and Oregon Aves., 20 ft., **(b)** $20,514 **(c)** $18,066; 471 ft. Chapel St., 21 ft., **(b)** $5,539 **(c)** $5,042; 2,091 ft. Hilltonia Ave., 26 ft., **(a)** $36,623 **(b)** $44,317; 7,503 ft. Mound St., 46 ft., **(a)** $79,086 **(b)** $97,650; 1,982 ft. alley north Reinhard Ave., 12 and 17.7 ft., **(b)** $13,197 **(c)** $11,665; 398 ft. alley west Wesley Ave., 18 and 19 ft., **(b)** $3,051 **(c)** $2,705; 799 ft. alley north Woodruff Ave., 15.5 ft., **(b)** $4,872 **(c)** $4,294; 442 ft. alley north Whittier St., 15 ft., **(b)** $2,659 **(c)** $2,349.

Michigan—July 6, by State Hy. Comn., at office Comrs. Shiawassee Co., Corunna, concrete paving 0.568 mi. State Trunk Line Rd. 47-11A. G. C. Dillman, Lansing, state engr.

Michigan—June 29, by State Hy. Comn., at office Comrs. Ingham Co., Mason, grading and concrete paving 1.107 mi. State Trunk Line Rd. 14-36C, E-2. G. C. Dillman, Lansing, state engr.

Mich., Detroit — June 28, by Dept. Pub. Wks., grading and sheet asphalt paving 976 sq.yd. Bedford Court, 2,135 sq.yd. Bonaparte Ave., 3,785 sq.yd. Fairview Ave., 5,157 sq.yd. Poinsetta Ave., 2,596 sq.yd. Nuernberg Ave., 2,638 sq.yd. Legrande Ave., 2,620 sq.yd. Doremus Ave., 12,723 sq.yd. Dexter Ave., 4,029 sq.yd. Greendale Ave., 4,086 sq. yd. Cecil Ave., 17,084 sq.yd. Wyoming Ave., Sect. 2, and 17,351 sq.yd. Conant Ave. P. A. Fellows, city engr.

Ill., Astoria — July 6, by Bd. Local Impvts., grading, curbing and rein.-con. surfacing 21,158 sq.yd. Bway., Paving Dist. 1. W. A. Fuller Co., 1917 Railway Exch. Bldg., St. Louis, Mo., engrs. Noted May 21.

Wisconsin—July 2, at Office 5, Batavia Natl. Bank Bldg., La Crosse, improving 4.18 mi. Sparta-La Crosse Rd., Federal Aid Project 397-A, La Crosse Co., 9,135 cu.yd. earth, 1,600 cu.yd. solid rock and 20,003 cu.yd. borrow excav., 660 cu.yd. channel change, 3,670 lin.ft. intercepting ditches, 4,380 lin.ft. macadam concrete curb and gutter, 44,415 sq.yd. macadam paving, etc. J. T. Donaghey, Madison, highway engr.

Wisconsin — July 3, at Office 9, Teller Bldg., Lancaster, improving 2.19 mi. Shullsburg-Monroe Rd., Federal Aid Project 374-C, Lafayette Co., 10,317 cu.yd. earth, 86 cu.yd. loose and 752 cu.yd. solid rock excav., 400 lin.ft. intercepting ditch, 515 cu.yd. channel change, 1,738 lb. reinforcing, 4,576 sq.yd. crushed stone surfacing, etc. Bids will be accepted by Option A, entire job, Option B entire job except crushed stone surfacing and Option C crushed stone surfacing only. J. T. Donaghey, Madison, highway engr.

Ia., Cedar Rapids — July 6, by L. J. Storey, city clk., resurfacing old tarvia macadam with 2 in. asphaltic concrete or repaving with 2 in. asphaltic concrete on 4 in. concrete, 9,630 sq.yd. Greenwood, Fairview, Ridgeway and Vernon Drives. $25,000. T. F. McCauley, city engr. Noted June 11.

Minn., Faribault — July 15, by F. M. Kaisereatt, aud. Rice Co., (S. A. R. means State Aid Road), grading, etc., 69,256 cu.yd. Job 2503, S. A. R. 64 and parts of S. A. Rds. 51 and 26, $30,259; 119,335 cu.yd. Job 2504, S. A. R. 3, Divisions A and B, $51,-483; 29,290 cu.yd. Job 2417 S. A. R. 54, $18,566. J. C. McElherne, Faribault, engr.

Minn., Minneapolis — June 29, by A. P. Erickson, aud. Hennepin Co., grading, gravel surfacing, etc. 13,800 cu.yd. Job 25-59, State Aid Road 17, Hennepin Co. $50,000. J. W. Shaffer, co. surv.

Minn., St. Paul—July 6, by C. J. Ries, aud. Ramsey Co., grading and paving ¾ mi. Ft. Snelling-Mendota bridge connection. $30,000. P. N. Coates, 900 Guardian Life Bldg., engr.

Minn., Worthington—July 14, by C. J. Kall, aud. Nobles Co., gravel surfacing 6 mi. Job 2506, State Rd. 15; grading, etc., 14,747 cu.yd. Job 2507, State Rd. 16. $26,-000. E. Keeler, Worthington, engr. Noted Apr. 30.

South Dakota — June 30, by State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project)**, graveling, etc., 9.42 mi. F. A. P. 169, Pennington Co.; 8.51 mi. F. A. P. 146A, 3.77 mi. F. A. P. 146B and 180B, and 9.45 mi. F. A P. 180C, Corson Co.; 10 mi. highway from Beresford to Centerville, etc. T. Soleglad, acting highway engr.

North Dakota — July 2, by State Hy. Comn., and Comrs. Ward Co., Court House, Minot, grading and graveling, etc., 0.543 mi. Highway 8, east of Delacs, Federal Aid Project 83C.

North Dakota — July 7, by State Hy. Comn., and Comrs. Adams Co., Court House, Hettinger, grading, etc., 4.999 mi. road, from Haynes east and south, Federal Aid Project 243 B.

North Dakota — July 8, by State Hy. Comn., and Comrs. Burke Co., Court House, Bowbells, graveling, etc., 13.181 mi. road between Flaxton and Bowbells, Federal Aid Project 76.

North Dakota — July 8, by State Hy. Comn. and Comrs., Burke Co., at Court House, Bowbells, grading and graveling 0.503 mi. road from Columbus, south, Federal Aid Project 1005.

North Dakota — July 10, by State Hy. Comn., and Comrs. Sheridan Co., at Court House, McClusky, grading, etc., 7.075 mi. road, east and west through McClusky, Federal Aid Project 218 C.

Wyoming—June 30, by State Hy. Comn., Cheyenne, grading 11.4 mi. Sheridan-Billings Rd., Federal Aid Project 179-A, Sheridan Co., $100,000, C. R. Wood, Sheridan, highway engr.; grading, etc., 7.57 mi. Wheatland-Douglas Rd., Federal Aid Project 165-A, Platte Co., $34,000, Z. E. Sevison, Cheyenne, engr.; grading and bridging 4 mi. Roverton-Dubois Rd., Federal Aid Project 159-B, Fremont Co., $38,000, 8.44 mi. Saratoga-Encampment Rd., Federal Aid Project 174-A, Carbon Co., $86,301; grading, bridging, surfacing 9.19 mi. Sundance-Beulah Rd., Federal Aid Project 25-A, Crook Co., $80,000, W. D. Keeney, Upton, engr.; grading, etc., 10 mi. Douglas-Casper Rd., Federal Aid Project 166-A, Converse Co., $39,000, C. H. Bowman, Casper, engr.

Mo., St. Louis — July 14, by Bd. Pub. Serv., 208 City Hall, granite curbing, asphalt paving, etc., 2,615 sq.yd. Magnolia St. $12,720, 3,240 sq.yd. Mississippi St. $29,-600, 1,855 sq.yd. Missouri St. $11,400, 3,295 sq.yd. Waldemar St. $17,300, 1,950 sq.yd. Alcott St. $8,320; granite curbing, granite block paving, etc., 4,855 sq.yd. Mississippi St., $42,000; granite curbing, Willite paving, etc., 25,500 sq.yd. Magnolia Ave. $175,-000, and 12,180 sq.yd. Euclid Ave. $71,000; granite curbing, Warrenite paving, etc., 2,965 sq.yd. Eller Ave. $23,520, 5,275 sq.yd. Milentz St. $24,000, 820 sq.yd. Emerson St., $14,120; granite curbing, asphaltic concrete paving, etc., 3,110 sq.yd. Wise Ave., $16,400. W. W. Horner, 300 City Hall, engr.

Arkansas—June 29, by State Hy. Dept., Little Rock, grading, bridging, gravel surfacing, etc. 12.9 mi. Magnolia-Village Rd., Federal Aid Project 232-A, Columbia Co.; 2.1 mi. Kokomo-St. Francis Co. Line Rd., Federal Aid Project 183-D, Rd. Dist. 4, Lee Co.; 5.5 mi. Bay Road-St. Francis Rd. extension, Federal Aid Project 179-B, Poinsett Co.; 5.75 mi. Foreman-Lewis Ferry Rd., Federal Aid Project 203-A, Little River Co., all 18 ft. wide. R. C. Limerick, Little Rock, highway engr.

Tex., Port Arthur — July 9, by J. P. Logan, mayor, grading, curbing, guttering and asphalt, rock asphalt or brick paving 87,000 sq.yds. various streets. $200,000. Nagle, Witt & Rollins, 1024 Keystone Bldg. Houston, engrs. Noted June 4.

Tex., Sequin — June 29, by State Hy. Comn., Austin, 1½ in. triple inverted penetration bituminous topping, 98,539 sq.yd. State Highway 3, Federal Aid Project 35-A-C, $170,000; graveling and 1 in. rock asphalt or 1½ in. triple bituminous surfacing 5.13 mi. State Highway 3, Federal Aid Project 35-B, $90,000. F. V. Lanham, chn. L. Taylor, Sequin, engr.

Tex., Wortham—July 6, by City Clerk, grading, curbing and paving 15,000 sq.yd. various streets. $50,000. J. E. Johnson, Teague, engr. Noted June 4.

Colo., Denver—June 30, by Dept. Impvts. & Parks, concrete paving 12 blocks Alley Paving Dist. 130, $33,213, 12 blocks Dist. 131, $21,233; 12 blocks Dist. 132, $29,405; and 12 blocks Dist. 133, $25,007. A. K. Vickery, City Hall, engr.

Washington — July 14, by State Hy. Comn., Olympia, crushed rock or gravel surfacing 15 mi. Elbe-Morton Rd., State Rd. 5, Lewis Co., and 13 mi. Davenport-Harrington Rd., State Rd. 7, Lincoln Co. J. W. Hoover, Olympia, highway engr.

Calif., San Diego — July 6, at office of A. H. Wright, city clk., grading, curbing, guttering, sidewalks, and 1½ in. asphaltic concrete on 5 in. concrete paving, 310,514 sq.ft. National Ave. between 31st and 41st Sts. F. A. Rhodes, city engr. Noted June 4.

Ont., Sandwich—June 26, by W. F. Coyle, clk. Essex Co., rein.-con. paving 1 mi. road east of Belle River, 26 ft. $50,000. Newman & Armstrong, David Blk., Windsor, engrs.

British Columbia — June 30, by Minister Dept. Pub. Wks., Victoria, clearing and grading 6 mi. new highway from Kalso to Nelson. $100,000. P. Philip, ch. engr.

BIDS RECEIVED

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam surfacing highway in Norwell, from O. R. Mann, South Hanover, $2,730, and 6,948-ft. highway in Hinsdale, from J. McCormick, 319 Taunton Ave., Providence, R. I., $66,679; bituminous concrete surfacing 22,935 ft. highway in Chatham and Harwich, from M. F. Roach, 35 Spring St., East Bridgewater, $84,452; bridge and approaches on 1,250 ft. highway in West Springfield, from Hoyt Constr. Co., 85 Dartmouth St., Holyoke, $76,144. Noted June 18.

N. Y., Brooklyn—J. A. Guider, boro pres., Boro Hall, June 17 from Sicilian Asphalt Paving Co., 41 Park Row, New York City, restoring and repaving when and where directed $25,000, asphalt repaving Atlantic and Williams Aves. $14,490, Harrison Ave. $63,810; from Cranford Co., 52 9th St., asphalt repaving Alabama Ave. $12,353, Greene Ave. $24,787, and Lewis Ave. $45,-757. Noted June 11.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, June 17, concrete repaving Hylan Blvd. and Court Pl., from Richmond Paving Co., 48 Hylan Blvd., Rosebank, $78,609. Noted June 11.

New Jersey—Bd. Freeholders Mercer Co. (Trenton), June 9, concrete paving 5,300 lin.ft. Zenker Rd. in Trenton Junction, from Celentano & Wendland, 509 Bridge St., Trenton, $56,219; bituminous concrete on stone paving 2,250 ft. Parkway and Kelsey Ave., in Trenton, from Union Paving Co., 30th and Locust Sts., Phila., Pa., $19,778.

N. J., Belvidere—Warren Co., paving 2 mi. Phillipsburg-Belvidere Rd., through here, from W. Eisenberg, Smith-Austermuhl Bldg., Camden, $118,073.

N. J., Hopewell—Freeholders Mercer Co. (Trenton), June 16, concrete paving 26,260 sq.yd. Broad St., here, from Gallena-Poole, 51 Prospect St., Trenton, $104,672. Noted June 11.

N. J., Morristown—Morris Co., concrete paving 2 mi. road in Passaic Twp., from Grey Constr. Co., Franklin St., $86,432.

Pa., Phila. — Delaware River Bridge Joint Comn., Widener Bldg., concrete slabs and paving roadway and footwalks of bridge over Delaware River connecting Phila., Pa., and Camden, N. J., Contr. 21-B, from F. J. Boas, 201 North Broad St., $766,212. Noted May 21.

Md., Baltimore—Bd. Awards, grading, curbing and sheet asphalt paving 15,400 sq.yd. Contr. 280 OC, from Amer. Paving Co., Montebello Ave., $74,852. Noted June 11.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, June 2, graveling 6.91 State Project 414-B, Jonesboro-Highway, Jackson Parish, from Harvey Constr. Co., Winnfield, $49,394.

O., Cincinnati—Director Pub. Serv., May 20, improving 1,650 ft. Hamilton Ave. from Chase to Bruce Sts., 100 sq.yd. vitr. brick, 7,200 sq.yd. granite block, 60 sq.yd. asphalt, 1,600 cu.yd. concrete, 3,250 lin.ft. granite curbing, 2,000 sq.ft. cement sidewalks, etc., from A. J. Brehm, 876 Hutchins Ave., $64,-855. Engrs. est. $69,645.

Ill., Galesburg—Grading, curbing, paving, etc., 2 blocks Duffield Ave. and sewers in 6th Ave., from H. H. Gunther, 959 East Losey St., $14,817 and $765 respectively, engrs. est. $14,967 and $874 respectively; grading, curbing and paving 2 blocks North Whitesboro St., and sewer in Academy St., from Graham-King Constr. Co., 550 South Cedar St., $12,760 and $2,285 respectively, engrs. est. $12,948 and $2,528 respectively.

Ill., Pekin—Bd. Local Impvts., June 10, grading, curbing, paving, etc., various streets in Highland Ave. Paving Dist., from Jansen & Schaefer, Pekin, $68,973. Engrs. est. $84,569. Noted June 4.

Wis., Wauwatosa—Bd. Pub. Wks., June 12, improving East and West Milwaukee Aves., 55,000 cu.yd. grading, from Bartel Mourer Co., 958 8th Ave., Milwaukee, at $0.62 per cu.yd.; 37,250 sq.yd. rein.-con. paving, from Jacobus & Winding Constr. Co., 1 State St., $2.08 per sq.yd. Noted June 4.

Ia., Atlantic—See "Bridges."

Kan., Ft. Scott — Bourbon Co., June 2, 128,000 gal. bitumen for single surface treating 28 mi. various roads, from Hogan Constr. Co., oil asphalt $15,687, refined tar $20,475.

Streets and Roads (Continued)

Tex., Cameron — Milam Co., June 5, grading, bridging and gravel surfacing 7.6 mi. State Highway 36, Federal Aid Project 359, 18 ft., from Evans & Greathouse, 500 West 15th St., Austin, $96,000. Noted May 21.

Colorado—State Hy. Dept., Denver, (**e. e. means engrs. est.**), grading 19.265 mi. Federal Aid 286B, Weld Co., from J. Collier, 63 South Logan St., Denver, $87,249 e. e. $114,633, 1.087 mi. Federal Aid 245B, Grand Co., from Pioneer Constr. Co., 203 Denham Bldg., Denver, $61,071 e. e. $98,984; graveling 2.216 mi. Federal Aid 267B, Las Animas Co., from Central Constr. Co., La-Veta, $22,858 e. e. $27,257.

Wash., Longview—City Council, June 9, improving L. I. D. 7, Highlands Addition 3, 38 acres clearing and grubbing, 10,332 cu.yd. sub-grading, 71,152 cu.yd. grading, 27,217 cu.yd. gravel in place, etc., from Goetz & Brennan, Seaboard Bldg., Seattle, $118,774. Engrs. est. $109,823.

California — State Hy. Comn., Sacramento, June 8, crushed gravel or broken stone surfacing 10 mi. road between point 6 mi. east of Los Banos and San Joaquin River, Merced Co., from Kaiser Paving Co., Amer. Bank Bldg., Oakland, $23,368; concrete paving 1 mi. road through town of Corning, Tehama Co., from E. A. Burns, Stockton $36,922; concrete paving 7.6 mi. and gravel or broken stone surfacing 1.2 mi. road between Healdsburg and Mark West Springs, Sonoma Co., from Galbraith & Janes, P. O. Box 539, Napa, using corrugated pipe, $277,516, using concrete culverts, $278,466; crushed stone or gravel surfacing 11.6 mi. road between Tahoe City and Nevada State line, Placer Co., from Bishop & Brooks, 201 Hagelstein Bldg., Sacramento, $23,912.

Calif., El Cerrito—From A. J. Crocker, 58 2nd St., San Francisco, improving Liberty, Elm, Richmond, Everett Sts., etc., 421,000 ft. 1½ in. Warrenite on 2½ in. asphaltic concrete paving at $0.239 per ft., 123,500 ft. 1½ in. Warrenite on 3 in. asphaltic concrete $0.249, 38,500 ft. 1½ in. Warrenite on 3½ in asphaltic concrete $0.269, 583,000 sq.ft. grading $0.03, total $207,964.

Calif., Los Angeles — Los Angeles Co., curbing, guttering and paving 16,478 ft. Whittier Blvd., from Kuhn Bros., 408 Center St., Manhattan Beach, $119,880. Engrs. est. $163,190.

Calif., Redwood City—San Mateo Co. oil and screenings on 3 in. rock macadam resurfacing 65,000 sq.yd. road from San Gregoria to Pescadero, from Guerin Bros., 2940 San Jose Ave., San Francisco, $49,800. Noted May 28.

CONTRACTS AWARDED

Mass., Boston—Dept. Pub. Wks., sheet asphalt or bitulithic paving Riverway Rds., to J. C. Coleman & Sons Co., 1620 Tremont St., Roxbury, $60,610. Noted June 11.

Mass., Boston—Dept. Pub. Wks., sheet asphalt or bitulithic paving Johnson Rd. and Houston St., West Roxbury, Leston St., Dorchester, Ashley, Ellsworth, Brandeen and Metcalf Sts., in East Boston, to H. F. Malley, 174 Hillside Ave., Roxbury, $27,268. Noted June 11.

Mass., Boston — Dept. Pub. Wks., bitulithic paving Columbia Rd. from Uphams Corner to Blue Hill Ave., Dorchester, to Warren Bros. Co., 9 Cambridge St., $66,968. Noted June 22.

Rhode Island—State Bd. Pub. Rds., State House, Providence, plans reconstructing highway from Fall River to Taunton, section of Newport to Boston Route, in Bristol. $300,000. A. L. Atwood, chn.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., to M. Del Balso, 660 East 221st St., grading, curbing and sidewalks, etc. on Furman Ave. $14,594; to Brusstar Constr. Co., Harlem River and 150th St., grading and bituminous concrete paving West 180th St. $18,225, and Giles Pl. $23,380; to Interboro Asphalt Co., 2306 Creston Ave., sheet asphalt paving Davidson Ave. $37,743, grading, curbing and sidewalks, etc. Montgomery Ave. $88,937, to Gaffney Constr. Co., 50 East 42nd St. Cruger Ave. $18,380. Noted June 11.

N. Y., Niagara Falls — Asphalt block paving 9,776 sq.yd. Cedar Ave. from Elm to Portage Aves. and from Main to 3rd Sts., to Read-Coddington Eng. Co., 238 Portage Rd., approximately $54,000.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete paving Victory Blvd., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $16,630.

New Jersey—Bd. Freeholders Hunterdon Co., at office State Hy. Dept., Trenton, rein.-con. paving 51,915 sq.yd. Ringoes-Flemington Rd., to Korp & Korp, Phillipsburg, $251,910. Noted June 4.

N. J., Butler—Morris Co. (Morristown) concrete paving 6,000 ft. Main St., here, to Weldon Co., Savage Ave., Westfield, $42,757.

N. J., Camden—State Hy. Dept., Trenton, entrance road Sect. 3, Delaware River Bridge approach, here, also 2 small 1 span bridges, 25,436 yd. excav. and 208,606 cu.yd. borrow, to M. Staub-Kolyn Constr. Co., Commonwealth Bldg., Trenton, $413,391.

Pa., Millvale — Millvale Boro repaving Lincoln Ave., to M. O. Herron, Millvale, $29,099. Noted Mar. 2.

Pa., Phila. — Delaware River Bridge Joint Comn., Widener Bldg., final section of plaza of Phila. approach, incl. subway station for bridge trolleys, 5th and 6th Sts., Contr. 22, to Acchione & Canuso Paving Co., 804 South 12th St., $930,314. Noted May 21.

Pa., Phila. — Dept. Wharves, Docks & Ferries, asphalt paving 14,550 sq.yd. and granite block paving 5,000 sq.yd. McKean Street Pier 78 South, Moyamensing Group, to Frederick Snare Corp., 1524 Chestnut St., $84,749.

Pa., Wilkes-Barre—School Dist., asphalt tile sidewalks, and driveways, curbing, stone work, grading, etc., at G. A. R. Memorial Junior High School, to Hastings Pavement Co., 24 Broad St., New York City, $30,275.

Maryland — State Roads Comn., Baltimore, concrete paving 2 mi. Contr. HO-45, Howard Co., to Ward & O'Connell, New Amsterdam Bldg., Baltimore, $67,575; sheet asphalt paving 0.39 mi. Contr. BC-12-C Baltimore Co., to Amer. Paving & Contr. Co., Montebello Ave., Baltimore, $29,691, 0.43 mi. Contr. BC-54, Baltimore Co., to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., Baltimore, $65,922; concrete shoulders on 1.64 mi. Contr. D-6A, Dorchester Co., to J. K. Flick, Sudlersville, $8,083, 8.5 mi. Contr. AB-1A, Anne Arundel Co., to P. Redding & Son, 2 East Lexington St., Baltimore, $85,749, 8.2 mi. Contr. WO-5A, Worcester Co., to Phillips & Neal, Hurlock, $37,812, 4.75 mi. Contr. P-12A, Prince George's Co., and 11.25 mi. Contr. C1-21A, Carroll Co., to Thomas, Bennett & Hunter, Westminster, $49,896 and $112,320 respectively. Grand total $475,048. Noted May 21.

Md., Baltimore — Bd. Awards, concrete paving 9,000 sq.yd. Contr. 287 OA, to F. D. Carrozza, Garrett Bldg., $25,009; 15,530 sq.yd. Contr. 286 OANA, to P. Flanigan & Sons, Harford Rd. and Baltimore and Ohio R.R., $75,158. Noted June 18.

W. Va., Moundsville—Asphalt surfacing 8th St. and 6 other streets, to Federal Asphalt Co., Main and D Sts., Hamilton, O., $42,983. Noted May 28.

W. Va., Wayne—Wayne Co., grading 6 mi. and concrete surfacing 1.2 mi. Whites Creek and Kellogg-Bobs Branch Rds., to Hatfield Constr. Co., 418½ 10th St., Huntington, W. Va., $69,834.

North Carolina—State Hy. Comn., Raleigh, grading, and sand-asphalt paving 5 mi. highway, Project 276, Pender Co., to Hudson & Scruggs, Wilmington, $107,035.

Fla., Tampa—City, widening, repaving and paving portions of Platt, Azeele, and Nebraska Sts., to W. L. Harwell, Tampa, $30,064. Engrs. est. $38,000.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 10.54 mi. road from Chatham to Caldwell Parish Line, State Project 469, Jackson Parish, to L. M. Wimberly Constr. Co., Arcadia, $83,628. Noted June 25.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 6.02 mi. Jonesboro-Bienville Highway, Jackson Parish, to F. D. Harvey & Co., Winnfield, $55,003.

La., Baton Rouge—See "Buildings—Commercial."

La., Shreveport—To E. S. Girault & Co., Shreveport, 2.5 mi. concrete sidewalk in Glenwood Park, $0.20 per ft.

Ala., Tuscumbia—Curbing, guttering and sidewalks on 15 mi. various streets, to Muscle Shoals Constr. Co., Tuscumbia, $104,600. Engrs. est. $105,000. Noted Mar. 19.

Miss., Hattiesburg—Forrest Co., 2½ in. vitr. brick on 5 in. concrete surfacing, etc., 18,000 sq.yd. Road Impvt. Dist. 1, to E. A. Finch, 805 Elizabeth Ave.; grading, curbing and Warrenite surfacing, etc., 119,425 sq.yd. roads, to Myers Constr. Co., Hattiesburg. Engrs. est. $500,000 incl. $100,000 federal aid. Noted June 4.

Miss., Louisville—Grading, curbing and Willite surfacing 25,000 sq.yd. various streets, to Hogan Constr. Co., 381 Southern Trust Bldg., Little Rock, Ark., $75,000. Noted May 28.

Miss., Meridian—To Wright Constr. Co., Meridian, 1½ in. sheet asphalt on 5 in. concrete surfacing 39,101 sq.yd. various streets at $1.84 per sq.yd.; to Dunn Constr. Co., Chamber Commerce Bldg., Birmingham, Ala., 2 in. Warrenite on 5 in. concrete surfacing 33,800 sq.yd. various streets at $2.29 and 2 in. asphaltic concrete surfacing 10,000 sq.yd. various streets at $1.92; to Meyers Constr. Co., Meridian, 15,678 ft. 6- to 24-in. vitr. clay sewers, etc., in various streets at scale price; to A. P. Pool & Son, Meridian, 37,500 ft. concrete curbing and 5,600 ft. concrete guttering, etc. Noted Apr. 30.

Kentucky—State Hy. Dept., Frankfort, to R. B. Tyler Co., 114 South 4th St., Louisville, oil surfacing 13.9 mi. Project 20-H, 21-G and 50-D, Bourbon Co. $8,508, 10.68 mi. Projects 96-A and 25-C, Boyle Co. $7,267, 14 mi. Projects 50-B and C, Clark Co. $10,676, 15.52 mi. Projects 29-A and B, Estill and Madison Counties $9,163, 11.1 mi. Project 25-F, Garrard Co. $7,092, 7.417 mi. Projects 8-B and 11-M, Hardin Co. $6,686, 21 mi. Projects 21-C, D and E, Harrison and Pendleton Counties $11,473, 4 mi. Project 11-J, Hart Co. $2,814, 13.1 mi. Projects 23-B and C, Jessamine Co. $8,756, 9.313 mi. Project 5-N-2, Laurel Co. $7,626, 3.14 mi. Project 32-C, Montgomery Co. $1,915, 2.2 mi. Project 61-A, Nicholas Co. $1,391, 8.48 mi. Project 11-G-1, Warren Co. $13,433, 6.3 mi. Project 20-B, Woodford Co. $5,305, tar surfacing 3 mi. Project 97-A, Garrard Co. $3,943, 10.5 mi. Projects 46-B and C, Henry Co. $5,359, 13.1 mi. Projects 23-B and C, Jessamine Co. $4,611, 2 mi. Project 25-B, Marion Co. $2,716, 5.3 mi. Projects 47-A and B, Nelson and Washington Counties $3,358, 14.7 mi. Project 26-C, Woodford Co., $8,517; to F. G. Breslin, 3rd and Market Sts., Louisville, oil surfacing 10.5 mi. Projects 64-A, 49-B and 59-B, Gallatin and Owen Counties, $13,649; to Southern Oil & Tar Co., Clay and Fulton Sts., Louisville, tar surfacing 2.501 mi. Project 5-T, Bell Co. $1,363, 18.87 mi. Projects 5-S and 38-A, Bell Co. $14,550, 6.447 mi. Project 46-K, Hardin Co. $8,551, 12.99 mi. Project 5-O, Laurel Co. $16,494, 4 mi. Project 22-G, Lincoln Co. $5,273, 10.5 mi. Project 44-A, Nelson Co. $6,157, 8 mi. Project 19-D, Owen Co. $8,502, 12 mi. Project 22-H, Pulaski Co. $7,111, 7.31 mi. Project 35-A, Whitley Co. $6,397, to Eaton Oil Wks., Covington, 4.166 mi. Project 6-B-1, Boyd Co. $3,202, and 1.1 mi. Project 47-R-1, Carter Co., $849; to Costello Bros., Henson Bldg., Knoxville, Tenn., grading, etc., 5.747 mi. Projects 130-B, C and D, Fulton Co., $54,590. Grand total $272,114. Noted May 14.

Kentucky — State Hy. Dept., Frankfort, grading, etc., 6.997 mi. Bardwell-Clinton Rd., 26 and 30 ft., Federal Aid Project 131-B and C, Carlisle Co., and 6.087 mi. Fulton-Hickman Rd., 26 and 30 ft., Federal Aid Project 130-B, C and D, Fulton Co., to Costello Bros. Co., Hanson Bldg., Knoxville, Tenn., $62,622 and $54,590 respectively. Noted May 21.

O., Akron—Summit Co., grading, curbing and paving 0.68 mi. Kenmore-Magadore Rd., 3,060 sq.yd. vitr. brick and 6,160 sq.yd. concrete, to A. E. Guilford Constr. Co., Metropolitan Bldg., $58,361. Engrs. est. $68,000. Noted June 4.

O., Brooklyn Heights (mail Independence)—Asphaltic concrete paving 6,500 yd. Broadale Ave., to Baldwin Bros., 4500 Euclid Ave., Cleveland, $37,612. Noted June 18.

O., Cleveland—City, to W. E. McHugh, West 73rd St. and Wheeling & Lake Erie R.R. tracks, improving Woburn St. $7,788, Brooklyn St. $8,627, Bucyrus St. $7,738, work involves 3,670 sq.yd. vitr. brick, 2,350 lin.ft. stone curbing, 2,560 lin.ft. 4 in. drain tile guttering, 2,590 cu.yd. earth excav., etc.; to Enterprise Paving & Constr. Co., 8444 Bway., East 40th St. $16,662, East 59th St. $19,625, East 138th St. $6,838, Dell Ave. $16,727, 12,690 sq.yd. sheet asphalt, 3,980 cu.yd. earth excav., etc.; to Highway Constr. Co., 903 Lorain Co., Bank Bldg., Elyria, Coath Ave. $26,989, Dartmouth Ave. $29,734, Gay Ave. $10,648, Melbourne Ave. $25,986, 17,090 sq.yd. asphaltic concrete, 11,420 lin.ft. stone curbing, 12,060 lin.ft. 4 in. drain tile guttering, 8,690 cu.yd. earth excav., etc.; to Fischer & Williams, Lorain Rd., Chatfield Ave. $48,103, to Roehl Bros., 7002 Denison Ave., Seymour Ave. $14,368, to Gould & Maybach, 16311 Saranec Rd., Waldo Ave. $7,765, work involves 10,390 sq.yd. vitr. brick, 1,265 sq.yd. asphaltic concrete, 7,425 lin.ft. stone curbing, 7,980 lin.ft. 4 in. drain tile gutter, 8,750 cu.yd. sidewalks, etc. Grand total $247,598. Noted May 21.

O., Cincinnati — Hamilton Co., (**e. e. means engrs. est.**) grading and bituminous macadam paving 14,200 sq.yd. Enyart Rd., to O. E. Radabaugh, Hazelwood, $23,182, e. e. $26,723; 31,200 sq.yd. Given Rd. to

Streets and Roads (Continued)

J. L. Radabaugh, Montgomery Park, Montgomery, $54,050 e. e. $57,787; 165,000 sq.yd. Brower Rd., to J. S. Slone, 2312 Mound Ave., Norwood, $30,288 e. e. $30,468; and 12,000 sq.yd. Rapid Run Park, to J. S. Nickoson, Sayler Park Station, Cincinnati, $27,373, e. e. $27,994. Grand total $134,893. Noted June 18.

O., Maple Heights (mail Cleveland)—Improving Friend Ave., 4,365 lin.ft. each curbing and guttering 49,200 sq.ft. bituminous concrete paving, to A. M. Pejsa Paving Co., 3161 Derbyshire Rd., Cleveland, $26,225.

Michigan—State Hy. Dept., at office Comrs. St. Joseph Co., Centreville, will pave with bituminous concrete 7.741 mi. State Trunk Line Rd. 13-69, by day labor. G. C. Dillman, Lansing, ch. engr. Noted June 4.

Michigan—State Hy. Dept., at office Comrs. Kalamazoo Co., Kalamazoo, will pave with bituminous concrete 1,512 mi. Trunk Line Rd. 13-69, by day labor. G. C. Dillman, Lansing, ch. engr. Noted June 4.

Mich., Detroit—To R. J. Powelson & Co., 6415 Iroquois Ave., one course concrete paving 369 sq.yd. Alley 2270 $1,177; to Bishop & Weir, 1305 Lafayette Bldg., 2,470 sq.yd. Alley 2274 $5,739, 2,505 sq.yd. Alley 2276 $5,872, 1,635 sq.yd. Alley 2277 $3,792; to Otis Cement Constr. Co., 806 Hammond Bldg., 2,055 sq.yd. Alley 2275 $4,968, 1,250 sq.yd. Alley 2279 $3,011, 710 sq.yd. Alley 2280 $1,766, 3,100 sq.yd. Alley 2281 $852, 1,075 sq.yd. Alley 2284 $2,876; to C. W. Shephard Co., 213 State St., 1,330 sq.yd. Alley 2278 $3,167, 1,610 sq.yd. Alley 2282 $4,158, 1,285 sq.yd. Alley 2283 $3,046, 710 sq.yd. Alley 2285 $1,733. Grand total $42,157.

Mich., Pontiac — Asphalt paving 9,300 sq.yd. various streets, to R. D. Baker Constr. Co., 1454 Penobscot Bldg., Detroit, $47,095.

Mich., Wyandotte — Curbing, and one course concrete paving 12,000 sq.yd. Vine, Elm, 2nd, 1st, 6th and Orchard Sts., to Bishop & Weir, 1305 Lafayette Bldg., Detroit, $43,000.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete surfacing Route 5, Sect. 15-X, Winnebago Co., to Verhey Constr. Co., Urbana, $8,958; Route 22, Sect. 11, Cook Co., to Chicago Heights Coal Co., Chicago Heights, $133,533; and Route 12, Sect. 1, Lawrence Co., to French Constr. Co., Fairfield, $121,705. Noted Apr. 2.

Ill., Belleville — Grading, curbing and paving McClintock Ave., to Hoeffken Bros., 222 West B St., Belleville, $69,894. Engrs. est. $81,000. Noted June 18.

Wis., Milwaukee—Bd. Pub. Wks., asphalt resurfacing Wright and 44th Sts., to Badger Constr. Co., 97 Wisconsin St., $4,336 and $6,308 respectively; vibrolithic concrete paving 56th St. and concrete paving 1 alley, to A. E. Retzlaff, 868 Island Ave., $6,070 and $2,079 respectively; sheet asphalt paving Graham St., to White Constr. Co., 68 Wisconsin St., $2,436; grading Lake St., to E. Radtke, 1405 Louis Ave., $2,432; concrete paving 1 alley each, to Bodemann Constr. Co., 691 48th St. $1,281, to Parkinson Constr. Co., 322 27th St. $1,534, to C. H. Slattery, 584 71st Ave. $4,242, to G. W. Hirth, 1309 7th St. $1,251, 2 alleys, to F. W. Blodgett, 521 Newton Ave., $7,887. Grand total $43,067. Noted June 11.

Ia., Adel — Dallas Co., gravel surfacing 7.5 mi. Primary Project 250, also 2,875 cu. yd. gravel and 22,125 units overhaul Primary Maintenance 8, to Moody & Foster, Perry, $8,954 and $1,790 respectively; 3 mi. Dist. 46, to H. R. Maudlin, Nevada, $3,788; 6 mi. Dist. 47 and 2.5 mi. in Grant Twp., to Kaiser Gravel Co., Pocahontas, $5,021 and $1,447 respectively; 11,250 cu. yd. Dist. 48, and 3,000 yd. Dist. 49, to W. L. Joy & Son, Grand Junction, $5,985 and $1,444 respectively. Grand total $28,429.

Minn., Elbow Lake—C. M. Nelson, aud. Grant Co., improving State Rd. 14, Job 2501, 105,758 cu.yd. excav., 187,325 cu.yd. overhaul, etc., to Studer & Manion, Excelsior, $24,365; gravel surfacing State Rd. 9, Job 2502, to Cosh Bros., Elbow Lake, $6,849, also 9 mi. State Rd. 11, Job 2503, to F. Lange, New Ulm, $7,124. Grand total $38,338. Noted May 28.

Kan., Ft. Scott — Bourbon Co., 126,000 gal. 1 course bitumen, for surface treating 28 mi. various streets, to Hogan Constr. Co., 381 Southern Trust Bldg., Little Rock, oil asphalt $15,687.

Neb., Alma—E. E. McKee, city clk., curbing, guttering and 6 in. rein.-con. paving 19,000 yd. streets in Dist. 1, to Yant Constr. Co., Omaha Natl. Bank Bldg., Omaha, at $1.97 per sq.yd. Engrs. est. $65,000. Noted June 11.

IMPOUNDING RESERVOIR—ASHLAND, PA.

Bids were opened by Borough, Apr. 30, for building impounding reservoir (A) Pottsville Construction Co., Pottsville, Pa. (awarded contract); (B) Briggs Construction Co., Providence, R. I.; (C) McLean Construction Co., Baltimore, Md. The unit bids are as follows:

	A	B	C
6 acres clearing and grubbing	$500.00	$250.00	$605.00
2,000 cu.yd. stripping	1.50	1.30	2.20
950 cu.yd. earth excavation, Class A	1.50	3.50	1.90
30,000 cu.yd. earth excavation, Class B	.85	1.00	1.00
1,000 cu.yd. rock excavation, Class A	4.00	4.50	6.60
12,000 cu.yd. rock excavation, Class B	1.75	3.00	1.40
1,600 lin.ft. drilling grout holes	3.00	2.50	2.20
800 bags cement grouting	1.25	1.40	1.93
82,000 cu.yd. rolled embankment	.95	.75	1.10
5,000 sq.yd. seeding	.10	.06	.22
370 cu.yd. concrete, Class A	25.00	24.00	25.30
636 cu.yd. concrete, Class B	22.00	30.00	22.00
260 cu.yd. concrete, Class C	22.00	20.00	21.50
254 cu.yd. concrete, Class D	21.00	22.00	18.70
2,800 cu.yd. concrete, Class E	15.00	17.00	15.00
255 cu.yd. concrete, Class F	20.00	20.00	16.50
36,000 lb. steel reinforcement	.08	.05	.08
50 cu.yd. rubble masonry	20.00	25.00	17.60
4,850 sq.yd. riprap, 18 in.	4.00	3.00	5.50
1,000 sq.yd. riprap, 12 in.	3.50	3.00	3.10
110 sq.yd. riprap, 8 in.	3.00	3.00	2.00
124,000 lb. cast iron pipe	.05	.05	.05
5,600 lb. special castings	.15	.10	.12
500 lin.ft. removing old cast iron pipe	1.00	2.00	1.35
450 lin.ft. relaying 12-in. cast iron pipe	1.25	1.00	1.10
1 16-in. hydraulic valve	350.00	375.00	400.00
1 12-in. hydraulic valve	250.00	450.00	350.00
4 12-in. O. S. & Y. gate valves	125.00	150.00	110.00
1 circular sluice gate	50.00	60.00	45.00
1 12-in. fish trap	150.00	200.00	165.00
Miscellaneous small piping (lump sum)	500.00	1,800.00	700.00
600 lb. miscellaneous iron castings	.15	.10	.07
4,500 lb. miscellaneous wrought iron and steel work	.10	.10	.08
Floor gratings (lump sum)	100.00	150.00	100.00
Doors and windows for gate house (lump sum)	500.00	500.00	165.00
Pipe railing (lump sum)	150.00	200.00	80.00
Miscellaneous lumber work (lump sum)	500.00	2,200.00	275.00
Extended totals	$262,324	$272,678	$284,418

Neb., Holdrege—I. Anderson, city clk., grading, curbing, guttering and concrete paving 38,220 sq.yds. streets in Paving Dists. 13, 14 and 15, also 3,850 ft. 24- to 36-in. vitr. clay sewers, to Roberts Constr. Co., 404 1st Natl. Bldg., Lincoln, $109,365 and $17,235 respectively.

Neb., Madison — Grading, etc., 6 mi. Meadow Grove-Tilden Rd., Project 139, 24 ft., Madison Co., to Theisen Bros. & Estel, Madison, $30,000.

Neb., Wahoo—Saunders Co., A. S. Dolezel, clk., 2 in. gravel surfacing, etc., 44,352 sq.yd. Federal and State Highway Project 27, 18 ft., to Central Bridge & Constr. Co., Wahoo.

North Dakota — State Hy. Comn., Bismark, and Comrs. Ransom Co., Court House, Lisbon, gravel surfacing 18 mi. road from Enderlin west and south through here, Federal Aid Project 28-A, also 9 mi. road south of Lisbon, Federal Aid Project 28-B, to N. Brolander, Wahpeton, $34,765.

North Dakota—State Hy. Comn. and Bd. Comrs. Stutsman Co., Court House, Jamestown, grading, graveling, etc., 8.511 mi. road from Jamestown west, Federal Aid Project 279, 11.562 mi. road from Jamestown, north and west, Federal Aid Project 56, A and B, also 8.01 mi. road from point 5 mi. south of Jamestown, Federal Aid Project 56 G and H, to C. Jackson, Jamestown. Noted May 21.

N. D., Valley City — Bitulithic paving about 17,840 sq.yd. Impvt. Dists. 4, 5 and 7, to Haggart Constr. Co., 214 Roberts St., Fargo, at $3.44 per sq.yd.

Mont., Helena—Grading, curbing, guttering, paving, etc., 11th Ave. (Dist. 145), to S. Birch & Sons Constr. Co., Helena, $59,282.

Mo., Clinton—Concrete paving 5,002 sq. yd. various streets, to Reed & Wheelock, Clay Center, Kan., $25,817. Noted June 11.

Mo., Springfield—Grading, curbing, concrete paving, etc., 9,567 sq.yd. Sherman St. from Central to Division Sts., to V. Koch, Joplin; and 4 ft. sidewalks on Prospect Ave., from High to Turner Sts., to H. Prosepri, 1220 North Campbell St., Springfield. Noted May 28.

Mo., St. Louis—Bd. Pub. Wks., 208 City Hall, grading, paving and concrete bridging private project between Hog Hollow and Little Lake Rd., to Industrial Track Constr. Co., 408 Market St., for Water Dept., $45,190. Noted May 21.

Mo., St. Louis—Bd. Pub. Wks., to Granite Bituminous Paving Co., Railway Exch. Bldg., Warrenite on concrete paving, etc., 4,940 sq.yd. Rosedale Ave. $19,749, 6,000 sq.yd. Plover Ave., $20,216; to Webb-Boone Paving Co., 5103 Fyler Ave., asphalt on concrete paving, etc., 8,300 sq.yd. Gustine St., $22,078; to Central Paving & Constr. Co., 6161 Maple Ave., Willite on concrete paving, etc., 3,950 sq.yd. Kansas St. $13,618, 4,215 sq.yd. Lemp Ave. $23,180; to Bridges Asphalt Paving Co., Buder Bldg., Tripidad asphalt paving 28,560 sq.yd. Kingshighway Blvd. $83,464, Grand-Kingshighway and Grand Blvd., $138,285; to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., Trinidad asphalt paving, etc., 24,490 sq.yd. Morgan St., $91,602. Grand total $412,192. Noted May 28.

Arkansas — State Hy. Dept., Little Rock, tentatively awarded contract grading, etc., 6.25 mi. Federal Aid Project 216-A, 18 ft., to J. A. Burke, 100 North 16th St., Ft. Smith, $38,912.

Ark., Warren—Curbing and vitr. brick on 5 in. concrete surfacing various streets in Dist. 1, to Cook & Ransom, Ottawa, Kan., $75,502.

Tex., Abilene—Warrenite bituminous surfacing Swenson Ave. from 13th to Ambler Sts., to West Texas Constr. Co., Abilene, $27,921. Engrs. est. $30,000.

Tex., Huntsville — Walker Co., grading, bridging, etc., 4 mi. Bath-Sandy Creek Rd., to Smith & Byrd, Huntsville, approximately $28,000.

Tex., Vernon — Concrete surfacing 20 blocks various streets, to J. P. Foty Constr. Co., Wichita Falls, approximately $100,000. Noted June 4.

Tex., Wichita Falls—Rein.-con. paving portions of 12th, Scott, 4th and Buckingham Sts., to Palins Paving Co., Staley Bldg., Wichita Falls, $2.73 per sq.yd. Noted May 7.

Okla., Okemah — Grading and concrete surfacing, etc., 14,900 sq.yd. 4th and 3rd Sts., to Standard Paving Co., 1732 East 3rd St., Tulsa, $46,080. Engrs. est. $52,012. Noted June 4.

N. M., Tecumcari — Paving 15 blocks various streets, to M. R. Amerman, 310 West English St., Wichita, Kan., $78,000.

Idaho—Commissioner Pub. Wks., at Office P. B. Wilson, Sonnenbalk Bldg., Pocatello, grading and gravel surfacing, etc., 11,074 sq.yd. Old Oregon Trail Highway, Federal Aid Project 30-B, Power Co., to G. K. March, 1126 2nd St., Spokane, Wash., $42,769.

Wash., Longview—City Council concrete curbing, concrete paving, etc., L. I. D. 4, Oregon Way et al., to Olympic Constr. Co., 1326 Northlake Ave., Seattle, $222,672. Engrs. est. $196,589.

Wash., Seattle—Comrs. King Co. widening and repaving over existing 16 ft. paving 3 mi. Country Club Rd. from East 85th St. North, 20 ft., to J. L. Smith, 304 West 36th St., $79,183. Engrs. est. $89,186.

Wash., Tacoma—City Clerk, filling, riprapping, warrenite and concrete paving, etc., North Front St., to Hart Constr. Co., 711 Middle Wtwy., $374,518. Engrs. est. $414,518.

Wash., Vancouver — Comrs. Clarke Co. grading and graveling 2¾ mi. Road 10, to

Streets and Roads (Continued)

Lair & Co., Kelso, $26,962; engrs. est. $34,-500; crushed rock surfacing 13 mi. Comas-Orchards Highway, to N. Castiapo, Portland, Ore., $62,804, engrs. est. $60,000.

Oregon—State Hy. Comn., Salem, grading, etc., 5,400 ft. Jackson Bottom Sect. Hillsboro-Laurel Market Rd., Washington Co., to Newport Constr. Co., Hermaston, $36,454; grading and surfacing 2.5 mi. Gold Beach Sect. Roosevelt Highway, Curry Co., to D. C. Plymate, Portland, $70,445; clearing, grading, etc., 9.63 mi. East Unit, Beacon Creek Sect. John Day Highway, Malheur Co., to H. C. Bayer, Ontario, $35,-887. Grand total $142,786.

Calif., Los Angeles — City, to O. U. Miracle, 227 Ave. D, Redondo Beach, improving Meyler St., 635 lin.ft. light curbing at $0.55 per lin.ft., 5,635 lin.ft. curbing $0.62, 1,389 sq.ft. guttering $0.20, 30,600 sq. ft. sidewalks $0.16, 113,932 sq.ft. concrete paving $0.19, total $55,140, engrs. est. $53,-748; to Warren Constr. Co., 2221 East 25th St., Beachwood Dr., 526 lin.ft. curbing $0.65, 4,104 sq.ft. guttering $0.29, 6,454 sq. ft. sidewalks $0.20, 83,070 sq.ft. asphaltic concrete $0.248, 1,480 sq.ft. asphaltic macadam $0.15, total $26,596, engrs. est. $26,667.

Calif., Los Angeles—Los Angeles Co., to W. J. Curren, 221 West Bway., improving Del Mar Ave., 16,688 cu.yd. excav. at $0.35 per cu.yd., 27,852 sq.yd. shaping $0.06, 19,-931 sq.yd. concrete paving $1.53, 31,509 ft. sidewalks $0.15, and rein.-con. bridge $21,-785, etc. Total $127,875.

Calif., Los Angeles — Los Angeles Co. grading, curbing and 8 in. concrete paving 436,315 sq.ft. Alameda St., to G. H. Oswald, 366 East 58th St., Los Angeles, $136,298.

Ont., Arthur — Rein.-con. paving George and Smith Sts., to Godson Contg. Co., 203 Richmond St. W., Toronto. Engrs. est. $35,000. Noted May 21.

Ont., Fergus—Asphaltic concrete paving St. Andrew St., to Brennan Constr. Co., Melrose Ave., Hamilton. Engrs. est. $75,000.

Ont., Hamilton—Concrete paving Barton St. E., to Frid Constr. Co., Ltd., Clyde Blk. Engrs. est. $35,000.

Ont., Harriston—Cement paving various streets, to W. L. Malcolm Paving Co., Kingston, $40,000.

Ont., Sandwich — Essex Co., cement paving Front Rd., to Cadwell Sand & Gravel Co., 228 Sandwich St., Windsor, $106,000; Division Rd. to Chick Constr. Co., McDougall Ave., Windsor, $45,000.

Ont., Walkerville — Concrete paving Windsor, Ottawa and Monmouth Rds., to Merlo, Merlo & Ray, Sandwich St., Ford, $142,000; various alleys to Coulotti Bros., 612 Langlois Ave. Engrs. total est. $160,000.

Buildings—Industrial

PROPOSED WORK

Mass., Framingham—FACTORY—Manufacturing Equipment & Eng. Co. having plans prepared 1 story, 60 x 200 ft., brick and steel addition, and 50 x 70 ft. japan building. $50,000. Monks & Johnson, 99 Chauncy St., Boston, engrs.

Mass., Peabody — FACTORY — Elvico Leather Co., Spring St., plans reconstructing factory, recently destroyed by fire. $70,-000. Engineer and architect not selected.

Mass., South Boston (Boston P. O.)—PLANT—Air Reduction Sales Co., 342 Madison Ave., New York City, soon takes bids 1 story, plant addition. Francisco & Jacobus, 511 5th Ave., New York City, engrs. and archts.

Mass., Watertown (Ind. br. Boston) — DRY HOUSE — Brusene Co. having preliminary plans prepared by Monks & Johnson, 99 Chauncy St., Boston, 1 story, brick, Stanley Ave. $40,000.

R. I., East Providence (Providence P. O.) —STOREHOUSE—Bird & Sons, Inc., East Walpole, having preliminary plans prepared 2 or 3 story, brick and steel storehouse. $150,000. Monks & Johnson, 99 Chauncy St., engrs.

N. Y., Bronxville (Ind. br. Yonkers) — SERVICE—S. J. Kessler, archt. and engr., 528 Courtlandt Ave., preparing plans 4 story, brick, steel and stone, auto service building, garage and repair shop, plain foundation. $135,000. Owner's name withheld.

Pa., Phila.—MILL—Phila. Bag Co., 86 Tasker St., had revised plans prepared by C. E. Wunder, 1520 Locust St., and soon takes bids 2 story and basement, 101 x 128 ft. mill, Water and Dickson Sts. $100,000.

Md., Baltimore—PLANT—Flynn & Emrich Co., 305 North Holliday St., plans 1 story, 90x360 ft., brick plant, Exeter Hall Ave. and Taylor St. $52,000.

Fla., West Palm Beach—ICE PLANT—R. Gambill, Graham Bldg., Jacksonville, plans two 60 ton daily capacity ice plants, here. $300,000 each.

Tenn., Clinton—MILL—Magnet Knitting Mills having plans prepared by J. E. Sirrine, 305 South Main St., Greenville, S. C., hosiery mill, brick and concrete. $200,000.

Tenn., Nashville—MILL—Ford Flower Co., 10th Ave. N., H. O. Blackwood, pres., purchased Liberty Milling Co. and plans remodeling present plant. $75,000.

O., Cleveland — LAUNDRY — U. S. Wet Wash Laundry, H. Senkfor, 8120 Otter Ave., had plans prepared by W. J. Wefel, 5216 Euclid Ave., 2 story, 40 x 87 ft., brick and steel laundry. $40,000.

O., Cleveland Heights (Warrensville P. O.) — FACTORY and COMMERCIAL — Cedar Lee Cleaners, W. E. Krieger, mgr., 13185 Cedar Rd., had plans prepared by W. J. Wefel, 5716 Euclid Ave., Cleveland, 1 story, 40 x 130 ft., brick and steel, 13185 Cedar Rd. $40,000.

O., Mansfield — FACTORY — Ohio Brass Co., had plans prepared by Devore Co., 908 Nicholas Bldg., Toledo, 2 story, 50 x 60 ft. electric building, and 1 story, 80 x 200 ft. office building, both brick and steel. $75,000.

O., Upper Sandusky—FACTORY—Wyandott Clay Products Co. plans one story buildings, near here, to replace those recently destroyed by fire. $100,000.

O., Wooster—FACTORY—Toy Craft Co. plans 2 story and basement, 60 x 120 ft., brick and steel addition. $40,000.

O., Youngstown — FACTORY — Truscon Steel Co., 1030 Albert St., plans factory addition Albert St.

Mich., Dearborn—SHOP and LABORATORY, etc.—Ford Motor Co., Highland Park, had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 story, 201 x 318 ft., rein.-con., brick and steel, Porter St. and Oakland Blvd., here.

Mich., Detroit—SUB-STATION—Public Lighting Comn., East Atwater St., had plans prepared by Smith, Hinchman & Grylls, archts. and engrs., 800 Marquette Bldg., for Sub-Station 24, 3 story and basement, 72 x 93 ft., Livernois Ave.; also Sub-Station 34, 1 story and basement, 55 x 108 ft., Connors Ave., both rein.-con., brick and stone, plain foundation.

Wis., Beloit—BOILER HOUSE—Beloit Water, Gas & Electric Co., Public Serv. Bldg., plans 2 story, 40 x 65 ft., brick and concrete addition, plain foundation. Private plans.

Wis., Tomahawk — MILL — Raymond Lumber Co., M. M. Raymond, mgr., plans rebuilding 1 story, brick saw mill, recently destroyed by fire. $50,000. Engineer and architect not selected.

Kan., Wichita — WAREHOUSE, etc. — Rounds & Porter Lumber Co., Beacon Bldg., had plans prepared by H. S. Conrow, Beacon Bldg., 1 story, 250 x 300 ft. warehouse and office building. $80,000 to $100,000.

Neb., Bloomfield—PLANT—Voted $50,-000 bonds electric light plant. Noted May 21.

Mo., St. Joseph—STORAGE TANK and WAREHOUSE — Sinclair Oil Co., J. E. Dyer, dist. mgr., plans storage tank and warehouse, 4th and Franklin Sts. $50,000.

Tex., Bastrop—POWER PLANT—Texas Pub. Utilities Co. Waco, purchased Bastrop Water, Light & Ice Co. and plans power station, here, to supply surrounding towns. $250,000. Private plans.

Tex., Temple — ICE PLANT — J. C. Mitchell, c/o Temple Ice & Refrigerating Co., 401-409 South 2nd St., et al, purchased site and plans new ice plant, 7th and 9th Sts., Avenue A and Santa Fe R.R. tracks. $150,000. Engineer and architect not selected. Noted May 28.

Calif., Pittsburg—PLANT—H. W. Johns-Manville Co., 500 Post St., San Francisco, plans factory, here. $1,000,000.

Ont., London—PLANT—Hobbs Mfg. Co., York and Ridout Sts., plans rebuilding plant, recently destroyed by fire. Loss $40,000.

Ont., Owen Sound—PLANT—Hisey Bros., Creemore, plans new packing plant, 3rd Ave. $40,000.

BIDS DESIRED

Mass., Quincy (Boston P. O.)—PLANT —White Bros., 85 Brooks St., Norfolk Downs, taking bids 2 story and basement, rein.-con., brick, tile and steel, Brooks St., here. $40,000. W. E. Luke, 365 Powder House Rd., Somerville, archt.

Mass., Waltham (Boston P. O.)—SHOP —J. L. Thomson, Roberts St., taking bids 3 story and basement, 50 x 100 ft., rein.-con. and brick machine shop extension. To exceed $40,000. A. E. Gray, 509 Exch. Bldg., Boston, archt.

N. Y., Jamestown—PLANT—June 30, by Bd. Pub. Utilities, extending lighting plant, Steele St. L. T. Klauder, Bankers Trust Bldg., Phila., Pa., consult. engr.

N. Y., New York—REPAIR—July 1, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., repair head quarters building at East Bronx Pipe Yard, Zerega and Houghton Aves.

Pa., Phila.—BOILER HOUSE—June 22, by Ballinger Co., engrs., 12th and Chestnut Sts., one water tube boiler house, 500 hp. coal stoker and power piping, etc., Margaret and James Sts., for Blumenthal Bros., Margaret and Bermuda Sts.

O., Cleveland — FACTORY — Industrial Fibre Co., c/o Artificial Silk Co., C. A. Nau, constr. mgr., 9801 Walford Ave., taking bids 1 story, 100 x 200 ft., 50 x 80 ft., 25 x 60 ft., also 25 x 40 ft., 41 x 200 and 100 x 100 ft., brick and steel additions, West 98th St., $200,000. Private plans. Noted June 11.

Mich., Detroit — FACTORY — Packard Motor Co., East Grand Blvd., taking bids 1 story, 85 x 150 ft. export shipping building, incl. woodworking shop, brick and steel, East Grand Blvd. $40,000. A. Kahn, 1000 Marquette Bldg., Detroit, archt.

Ill., Quincy — FACTORY — G. Behrensmeyer, archt., 430½ Maine St., taking bids 2 story, 61 x 467 ft. main building with 61 x 350 ft. and 61 x 250 ft. wings, also 1 story, 90 x 260 ft. stamping building, etc., all rein.-con., brick and steel, 12 St. and Chicago, Burlington & Quincy R.R. tracks, here, for General Radiator Co., c/o C. W. Gillette, chn., 547 West Jackson St., Chicago.

Wis., Waukesha—MANUFACTURING—Eckerman & Ruddell, engrs. and archts., 279 Layton Blvd., Milwaukee, taking bids 2 story and basement, 52 x 75 ft., brick and timber, here, for Waukesha Jelly Powder Co., Bway. and East Ave. $45,000.

CONTRACTS AWARDED

Mass., Boston—FACTORY—Air Reduction Sales Co., 122 Mt. Vernon St., Dorchester, 2 story, 60 x 80 ft. and 40 x 40 ft., rein.-con. and brick, to J. F. Fitzgerald Constr. Co., 294 Washington St. Archts. est. $50,000.

Mass., Boston—MANUFACTURING—A. J. Tower Co., 18 Simmons St., Roxbury, 5 story, 75 x 100 ft., timber addition, here, to Whidden-Beekman Co., 100 Boylston St., Boston. Archts. est. to exceed $40,000.

Mass., Everett (Boston P. O.)—SHOP—New England Tank & Tower Co., 44 Main St., 1 story, 50 x 215 ft., brick and steel, Tileson St., to Hudson Constr. Co., 6 Beacon St., Boston. Archts. est. $40,000. Excav. Drainage etc.

Mass., Forest Hills (Boston P. O.)—CAR HOUSE—Boston Elevated Ry., Park Sq. Bldg., Boston, 1 story, 90 x 300 ft., rein.-con., brick and steel, here, to Simpson Bros. Corp., 77 Summer St., Boston. Archts. est. $100,000.

Mass., Lawrence—PLANT—H. P. Hood & Sons, Charlestown, 1 story, brick addition, to Somers & Drisco, 168 Dartmouth St., Boston. Archts. est. $40,000. Noted Apr. 23.

Mass., Lynn — SHOP, STORAGE and GARAGE—City, R. F. Hand, City Hall, 2 story, 50 x 142 ft., rein.-con., Bennett St., to C. S. Cunningham & Sons Constr. Co., 80 Boylston St., Boston, $67,400. Noted May 28.

Mass., Medford (Boston P. O.)—REPAIR and SERVICE GARAGE—Boston Elevated Ry. Co., Park Sq. Bldg., Boston, 1 story, 112 x 120 ft., brick and steel, Salem St., here, to Tredennick Billings Co., 10 High St., Boston. Archts. est. $120,000. Noted May 21.

Mass., New Bedford—MILL—Gilt Edge Silk Mills, 1145 Kempton St., 2 story, 52 x 160 ft. brick and steel mill, to G. Howard & Sons Co., 888 Purchase St. Archts. est. $50,000. Noted June 4.

Mass., Roxbury (Boston P. O.) — BAKERY—Berwick Cake Co., 2220 Washington St., 3 story, 70 x 130 ft., rein.-con. and brick, Palmer St., to J. W. Bishop Co., 683 Atlantic Ave., Boston. Archts. est. to exceed $40,000. Noted May 7.

Mass., Springfield — WAREHOUSE — Crane Co., 836 South Michigan Ave., Chicago, Ill., 2 or 3 story and basement, 87 x 130 ft., rein.-con., brick and steel, Columbus Ave., to E. F. Carlson, 244 Main St. Archts. est. $150,000-$200,000.

N. Y., New York—GARAGE, etc.—J. Miller, pres. Manhattan Boro, Municipal Bldg.,

Buildings—Industrial (Continued)

garage addition at asphalt plant, also stone dust storage building addition, 90th St. and East River, to G. A. Glantz, $66,725. Noted June 11.

Pa., Phila.—DYE HOUSE—Ballinger Co., archts., 12th and Chestnut Sts., 1 story and basement, 42x110 ft., brick, plain foundation, Pensdale and Mitchell Sts., for Kaufman Plush Mills, Pensdale St., to R. E. Lamb, 843 North 19th St.

Pa., Williamsport—FACTORY—Crooks-Dittmar Co., Day St., 1 story, 340 x 385 ft., brick and steel, Susquehanna St., to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O., $200,000.

D. C., Wash.—POWER PLANT—Dist. Comrs., power plant, to W. G. Cornell Co., 19 Patterson St., N. E., $155,136.

D. C., Wash. — FACTORY — Natl. Radiator Co., 1228 H St. N. W., 1 story, 72 x 225 ft., brick and steel, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $75,000.

Va., Arlington — FACTORY — Phoenix Stone Co., 1 story, 136 x 250 ft., rein.-con., steel and corrugated iron factory, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $100,000.

Ala., Fairfield—MILL—Tennessee Coal, Iron & R.R. Co., B. M. Bldg., Birmingham, G. G. Crawford, pres., will enlarge plant, here. Work will be done by day labor. $1,000,000.

Ala., Gadsden—PLANT—H. Weeter Mfg. Co., 1 story, 122 x 500 ft., steel and concrete, and 60 x 60 ft. steel buildings, to Ingalls Iron Co., 2716 North 26th St., Birmingham, $250,000. Noted June 11.

Tenn., Nashville — FACTORY — Carter Shoe Co., Louisville & Nashville R.R., 1 story and basement, 50 x 250 ft., concrete and brick addition, to J. L. Webb Constr. Co., 214 Shelby Ave., approximately $125,000. Noted June 26.

Mich., River Rouge—PLANT—Ford Motor Co., Highland Park (Detroit P. O.), 1 story, 400 x 1,060 ft., open hearth building, brick and steel, plain foundation, to Bryant & Detwiler Co., 2336 Dime Bank Bldg.

O., Cincinnati—FACTORY—Natl. Radiator Co., Un. Centr. Bldg., 1 story, 60 x 180 ft., brick and steel factory, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland. Archts. est. $60,000.

O., Cleveland — FACTORY — Ferro Enameling Co., C. M. Horn, secy., 4150 East 56th St., 2 story, 23 x 54 ft., brick and steel enameling room addition, to P. Kirschner & Co., 2914 East 75th St. Archts. est. about $40,000.

O., Cleveland—FACTORY—K. V. Painter, 6523 Euclid Ave., 2 story and basement, 40 x 110 ft., brick and steel, 1960 East 24th St., to H. K. Ferguson Co., 4900 Euclid Ave. Archts. est. $45,000. Solenberger Piston Ring Co., 1966 East 66th St., lessee.

Ill., Chicago—FACTORY—Trustees of Central Mfg. Dist., 38 South Dearborn St., c/o J. B. Whidden, sales mgr., 2 story and basement, 50 x 123 ft. factory, 3350 West 48th Pl., to E. W. Sproul Co., 2001 West Pershing Rd. $62,000. Wallace Bros. Waste Co., 1347 South Ashland St., lessee.

Wis., Marshfield — FACTORY — Felker Bros. Mfg. Co., Depot and Chestnut Sts., 1 and 2 story, 68 x 77 ft., brick and concrete, plain foundation, to Krasin Bros., Central Ave. Archts. est. $40,000. Noted May 21.

Wis., Milwaukee — FACTORY — Lindsay Bros., 78 Reed St., 3 story, 65 x 137 ft., brick and concrete, to W. F. Tubesing, 373 Bway. Archts. est. $40,000. Noted Feb. 19.

Wis., Milwaukee — PLANT — Silurian Waukesha Water Distributing Co., 430 3rd St., 2 story and basement, 40 x 100 ft., brick and concrete, plain foundation, Weil St., to S. Czaplewski, 878 2nd Ave. Archts. est. $40,000.

Wis., Neenah—PAPER MILL—Kimberly-Clark Co., 5 story and basement, 82 x 90 ft., brick and concrete addition, plain foundation, to Wisconsin Eng. & Constr. Co., Bellin Bldg., Green Bay.

Wis., Oshkosh — COLD STORAGE — Segal Co., 607 South Main St., 3 story and basement, 42 x 70 ft., brick and timber, plain foundation, to C. R. Meyer & Co., 50 State St. Archts. est. $45,000.

Wis., Prairie du Sac—SHOP—Wisconsin River Power Co., 16 North Carroll St., Madison, 1 story, 50 x 50 ft., rein.-con., brick and steel shop and garage, to Dresen Bros. Co., Prairie du Sac. Archts. est. $40,000.

Wis., Sheboygan — FACTORY — Ross-Speller Co., South 9th and Water Sts., 2 story, 40 x 64 ft., rein.-con., brick and steel, plain foundation, to Guenther & Meier, 1224 North 4th St. Archts. est. $40,000.

ROAD WORK—IDAHO

Following are lowest three bids opened by Dept. Pub. Wks., Bureau Highways, Boise, Apr. 22, for improving 15.03 mi. North and South Highway between Grangeville and Cottonwood, (A) Payne & Doust, Spokane, Wash. (awarded contract); (B) J. E. Edwards, Spokane; (C) Morrison Knudson, Boise. The unit bids are as follows:

	A	B	C
4,265 cu.yd. excavation, solid rock	$1.50	$1.60	$1.50
68,311 cu.yd. excavation, earth	.30	.31	.27
83,101 st.yd. overhaul on excavation	.05	.05	.04
39,678 cu.yd. crushed rock surfacing	1.72	1.84	1.93
5,555 cu.yd surfacing binder	.60	.30	.44
0.27 mi. reshaping old road	500.00	300.00	370.00
264.34 cu.yd concrete, class "A"	28.00	26.00	30.00
44.25 cu.yd. concrete, class "B"	28.00	26.00	28.00
26,444 lb. metal reinforcement	.09	.085	.08
1,514 ft. 18 in. G.I. pipe, haul and place	.40	.25	.40
510 ft. 24 in. G.I. pipe, haul and place	.50	.35	.50
100 cu.yd. stripping pits	.35	.25	.27
Extended totals	$114,676	$117,764	$119,460

Wis., Wausau—CREAMERY—Kleinheinz Dairy Co., 121 South 2nd St., 1 and 2 story, 48 x 112 ft., brick and concrete, plain foundation, to C. Hackbarth, 314 Bridge St. Engrs. est. $50,000.

Ia., Newton—FACTORY—Maytag & Co., general contract 2 story, 100 x 290 ft., rein.-con. and brick factory addition, to Lanning Constr. Co., Evans Bldg., Des Moines, $141,000. Noted June 4.

Minn., Minneapolis—FACTORY—Cosby-Wirth Sales Book Co., 422 Washington Ave. N., rejected bids 1 and 2 story and basement, 110 x 144 ft. factory, 16th and Washington Aves. N. $45,000. Project postponed indefinitely. Noted Mar. 19.

Minn., St. Paul—SHOP, etc.—Northern Pacific Ry. Co., Railway Bldg., general contract 2 story and basement, 50 x 112 ft. commissary building, 1 story, 40 x 100 ft. pullman building, 1 story, 40 x 96 ft. battery building, 1 story, 40 x 97 ft. storehouse, 1 story, 40 x 40 ft. car shop, and 1 story boiler shop, etc., East 3rd and Commercial Sts., to Butler Bros., 643 Hamm Bldg. Noted May 14.

Minn., St. Paul—WAREHOUSE—Waldorf Paper Products Co., Myrtle St. and Pillsbury Ave., general contract 1 story, 80 x 340 ft., steel, Hampden and University Aves., to P. Steenberg Constr. Co., 915 Builders Exch. Archts. total est. $100,000.

Minn., South St. Paul—ROUNDHOUSE and SHOP — Chicago, Milwaukee & St. Paul R.R. Co., 80 East Jackson Blvd., Chicago, Ill., general contract roundhouse and machine shops, here, to H. C. Struchen, 405 Dakota Bldg., St. Paul. Archts. total est. $1,000,000. Private plans.

Kan., Larned—POWER PLANT—State Bd. Administration, State House, will build 1 story, 55 x 108 ft., rein.-con., brick and stone power plant, by day labor. Archts. est. $60,000. Noted June 4.

Kan., Topeka—ROUNDHOUSE—Atchison, Topeka & Santa Fe R.R. Co., Ry. Exch. Bldg., Chicago, Ill., 1 story, brick roundhouse, here, to McKee Constr. Co., El Paso, Tex. Archts. est. $150,000.

Mo., Kansas City—BAKERY—Consumers Bread Co., 405 Elmhurst Bldg., general contract, 1 story and basement, 80 x 115 ft. brick bakery, to Bickel Constr. Co., 1817 Walnut St.

Mo., St. Louis—CLEANING and DYEING — Enterprise Cleaning Co., 4225-31 West Easton Ave., 2 story, 65 x 129 ft., rein.-con. and brick, Easton Ave., to C. A. Welsch Constr. Co., 119 North 7th St. Archts. est. $50,000.

Mo., St. Louis — ROUND HOUSE — Missouri-Pacific R.R. Co., Ry. Exch. Bldg., general contract 1 story, 81 x 100 ft., rein.-con. and brick roundhouse, Chouteau St., to Kellerman Contg. Co., Victoria Bldg. Engrs. est. $90,000.

Mo., St. Louis — MILK DEPOT — St. Louis Dairy Co., 21st and Pine Sts., 1 and 2 story, 65 x 130 ft., rein.-con. and brick, Gravois St., to Widmer Eng. & Constr. Co., Laclede Gas Light Bldg. Archts. est. $40,000.

Mo., St. Louis—POWER PLANT—Union Electric Light & Power Co., 12th and Locust Blvds., altering and improving 2 story, rein.-con. and brick, 10th and Charles Sts., to Fruin-Colnon Constr. Co., Merchants Laclede Bldg. Archts. est. $40,000.

Ark., Little Rock—FACTORY—Capital City Casket Co., 604 East Markham St., 3 story, 75 x 160 ft., brick and concrete, Garland and Pulaski Sts., to Jenkins & Apple, Little Rock. Archts. est. $45,000.

Okla., Oklahoma City—SUBSTATIONS—Oklahoma Gas & Electric Co., 112 North Bway., had preliminary plans prepared new 1,000 kw. electric substation at fair grounds, and 600 kw. station at Capitol Hill. Work will be done by day labor. $40,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

Wash., Longview — LUMBER SHEDS, etc.—Long Bell Lumber Co., three 74 x 1,228 ft. unstacker sheds, three 74 x 825 ft. rough lumber sheds, three 74 x 660 ft. dressed lumber sheds, two 84 x 660 ft. loading sheds, and one 104 x 715 ft. broken package shed, to Grant Smith & Co., Henry Bldg., Seattle, $300,000.

Calif., Azusa—PLANT—California Publishing Co., Los Angeles, 1 story, 60 x 200 ft., and two 1 story, 40 x 60 ft., brick, Keeney Grove, near here, to Union Eng. Co., 301 Bartlett Bldg., Los Angeles, $50,000.

Calif., Azusa—FACTORY—West Coast Trimming Co., 312 South Hill St., Los Angeles, 1 story, 78 x 232 ft., brick, Keeney Grove, near here, to Union Eng. Co., 301 Bartlett Bldg., Los Angeles, $60,000.

Calif., Los Angeles — PLANT — Federal Cold Storage Co., 6 story and basement, 200 x 700 ft. cold storage plant, District Blvd. and Union Pacific R.R. tracks to Scofield Eng. Co., 728 Pacific Finance Bldg., $435,000.

Ont., Toronto — REFINERY — McColl Bros., 114 Don Esplanade Ave., oil refinery, brick, general contract, to Russell Constr. Co., Harbor Bldg.; stills, to J. Inglis Co. Ltd., Strachan Ave.; steel tanks, to Horton Steel Wks. Ltd., Bridgeburg; boilers, to Vickers Combustion Eng. Co., Bank of Hamilton Bldg. Archts. total est. $750,000. Noted Jan. 22.

Buildings—Commercial

PROPOSED WORK

Mass., Boston—HOTEL—C. H. Blackhall, archt., 20 Beacon St., preparing plans hotel, Tremont St. and Seaver Pl. To exceed $150,000. Owners name withheld.

Mass., Cambridge (Boston P. O.)—STORE—B. and G. Realty Co., c/o Carrig & Hurley, 671 Massachusetts Ave., plans group stores, and auto sales rooms, 1075 Massachusetts Ave. and Trowbridge St. $150,000 or more. Engineer and architect not selected.

Mass., Greenfield—HOSPITAL—Franklin Co. Public Hospital, H. C. Stetson, chn. com. having sketches made by Kendall, Taylor & Co., 142 Berkley St., Boston, 3 story and basement, brick, High St. $300,000.

Mass., Lawrence—STORE and OFFICE—W. G. Hall & A. Perros, Essex St., plan rebuilding store and office building, Essex St., recently destroyed by fire. $200,000. Engineer and architect not selected.

Mass., Newton (Ind. br. Boston)—HOME—Baptist Home, 300 Brookline St., Cambridge, having sketches made by Kendall & Co., 142 Berkley St., Boston, 2 story, rein.-con. and brick, Commonwealth Ave. and Lake St. $150,000 or more. Noted Nov. 13.

Mass., Norwood—MERCANTILE—Norwood Furniture Co., having preliminary plans prepared by M. Sullivan, 100 Boylston St., Boston, 2 story and basement, brick and limestone mercantile building. $150,000.

Mass., Quincy (Boston P. O.) — THEATRE, etc.—Wollaston Palace Theatre Co., W. W. Wilson, pres., 64 Fenno St., having revised plans prepared by M. J. Allen, Inc., State Theatre Bldg., Massachusetts Ave., Boston, 2 story, 70 x 200 ft., brick theatre, store and apartment building. $150,000.

Mass., Wellesley—DORMITORY—Wellesley College, having plans prepared by Day & Klauder, Franklin Bank Bldg., Phila., Pa., rein.-con., brick and steel, plain foundation, on campus. $300,000. Noted Feb. 19.

Conn., Hartford — FIRE HEADQUARTERS—City, having plans prepared by Smith & Bassette, 36 Pearl St., brick and stone

Buildings—Commercial (Continued)

addition, Pearl St. $250,000. Noted Apr. 16.

Conn., Hartford — THEATRE, STORE and OFFICE—M. Shulman & Sons, 1764 Park St., having plans prepared by G. Zunner, 182 High St., 3 story, and basement, 95 x 115 ft., brick and steel, plain foundation, Park St. $200,000.

Conn., Wallingford—ADMINISTRATION and HOME — Gaylord Farm Sanatorium, D. R. Lyman, doctor, having plans prepared by J. F. Kelly, 39 Center St., New Haven, doctors and nurses home and administration building, brick and steel, Gaylord Farm. $275,000.

N. Y., Brooklyn—APARTMENTS—Parkway Union Corp., c/o Shampan & Shampan, archts. and engrs., 189 Montague St., having plans prepared two 6 story, brick, steel and stone, plain foundations, Eastern Parkway. $700,000 each.

N. Y., Brooklyn — EXCHANGE — New York Telephone Co., 15 Dey St., New York City, having plans prepared by McKenzie, Voorhees & Gmelin, archts. and engrs., 342 Madison Ave., New York City, 4 story, rein.-con., brick and steel, plain foundation, Ocean Ave. $475,000.

N. Y., Cheektowaga — TOWN HALL — Plans new town hall, Bway. $200,000. Engineer and architect not selected.

N. Y., Lackawanna—HOTEL—Hoepfinger Bros., 1029 Ridge Rd., plans hotel, Ridge Rd. $200,000. Engineer and architect not selected.

N. Y., New York—OFFICE—J. C. and M. G. Mayer, 347 Madison Ave., plans 35 story, 175 x 197 ft., brick and stone, plain foundation, 42nd St. and Lexington Ave. $8,000,000. Engineer and architect not selected.

N. J., Trenton — POLICE STATION — City Comn. plans police station. $200,000. G. B. LaBarre, dir. Pub. Safety. Engineer and architect not selected.

Pa., Phila. — OFFICE and BANK — Mutual Trust Co., 4th and Market Sts., having plans prepared by Ballinger Co., 12th and Chestnut Sts., and Heacock & Hokenson, 1211 Chestnut St., 18 story and basement, about 25 x 125 ft., brick and steel, 518 Walnut St. Noted Apr. 2.

Pa., Phila.—OFFICE and RESTAURANT —Horn & Hardart, 240 South 10th St., having plans prepared by R. B. Benckert, Bellevue Bldg., 9 story, basement and subbasement, 42 x 153 ft., brick and steel, plain foundation, 16th and Chestnut Sts.

Pa., Pittsburgh—HOSPITAL—Montefiore Hospital, 3000 Center St., having plans prepared by Schmidt, Garden & Martin, 104 South Michigan Ave., Chicago, Ill., and H. Hornbostel, associated archt., Century Bldg., hospital, 5th Ave. and Darrogh St. $1,000,000.

Pa., Pittsburgh—HOSPITAL—Shriners Natl. Hospital Fund, c/o S. P. Cochran, pres., Dallas, Tex., having plans prepared by Hentz, Reed & Adler, Candler Bldg., Atlanta, Ga., brick and stone children's hospital, Stanton Ave., here. $600,000.

Md., Baltimore — APARTMENT — M. J. Stein, 9 North Liberty St., having plans prepared by C. N. and N. Friz, Lexington Bldg., 6 story and basement, 100 x 100 ft., brick and steel, plain foundation, Lake Dr. east of Eutaw Pl. $300,000.

Fla., Clearmont—HOTEL—H. D. Washburn, H. Conrad and T. L. Hendrix, Lakeland, who will organize The Ridge County Holding Co., plan "Top of Florida Hotel," 7 story, steel, Cooper Park. $250,000.

Fla., Ft. Myers—HOTEL—W. P. Franklin and associates, plan Hotel Edison, 10 story, Jackson and 2nd Sts. $750,000.

Fla., Pensacola—HOTEL—A. C. Allen & Associates, c/o West Florida Development & Investment Co., plan hotel, La Rua St. between Baylen and Spring Sts. $300,000.

Fla., Tampa—OFFICE—J. A. Crenshaw, 311 7th Ave., plans 15 to 20 story office building, Washington and Tampa Sts. $1,000,000.

La., New Orleans—THEATRE—Ehrlich Bros. associated with Saenger Amusement Co., Tulane and Liberty Sts., having plans prepared by E. Weil, Whitney Central Bank Bldg., remodeling Saenger Theatre, Milam and Louisiana Sts. $175,000.

La., Shreveport — THEATRE — C. T. Thompson, Texarkana, Ark., plans 3 story and basement, 40 x 150 ft., concrete and brick, Milan St. near Marshall St., here. $150,000. Engineer and architect not selected.

O., Cleveland—APARTMENT—F. C. Herrick, 8314 Euclid Ave., having plans prepared by C. S. Schneider, 2258 Euclid Ave., 3 story and basement, brick and timber, East 86th St. $250,000.

O., Cleveland—COTTAGES, etc.—City, D. Blossom, dir. Pub. Welfare, City Hall, had plans prepared by H. Kregelius, City Hall, 1 and 2 story building for girls farm $100,000, cottage for boys farm $40,000, cottage for tuberculosis sanitarium $40,000, superintendent's residence $15,000, and health station $15,000.

O., Cleveland Heights (Warrensville P. O.)—LIBRARY—Cleveland Heights Library Bd., c/o C. E. Adams, pres., having plans prepared by J. H. Graham & Co., 1612 Euclid Ave., Cleveland, Public Library, brick, steel and concrete, Coventry Rd. and Washington Blvd. $150,000.

O., Lakewood (Cleveland P. O.) — APARTMENT HOTEL—Beaconsfield Hotel Co., c/o J. W. Gillespie, pres., 15407 Detroit Ave., Cleveland, having preliminary plans prepared by J. F. Cavanaugh, 2729 Prospect Ave., Cleveland, 6 story and basement, 126 x 140 ft., brick, steel and concrete, Detroit and Mars Aves. $350,000.

Mich., Detroit—APARTMENT—C. D. Lundblad, archt., 912 Donovan Bldg., plans 3 story and basement, 35 x 150 ft., brick, steel and stone, plain foundation, Brush St. $200,000. Owner's name withheld.

Mich., Detroit — APARTMENT — A. Komaroff, 1033 Dime Bank Bldg., having plans prepared by M. Finkel, 1333 Book Bldg., 4 story and basement, 100 x 177 ft., brick and steel, plain foundation, Willis St. $200,000.

Wis., Kenosha — CLUB — Italian-Amer. Society, L. Montemurro, pres., 117 South Newell St., having plans prepared by C. O. Augustine, North Main St., 3 story and basement, brick and tile, plain foundation. $150,000.

Wis., Madison — DORMITORY—University of Wisconsin, J. D. Phillips, bus. mgr., having plans prepared by A. Peabody, State Capitol, two groups rein.-con., brick and steel dormitories for men. $900,000. Noted Feb. 19.

Wis., Madison—HOTEL—Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee, soon takes bids 8 or 10 story, brick and concrete addition to Hotel Loraine, plain foundation. $250,000. M. Tullgren & Sons, 425 East Water St., Milwaukee, archts. Noted Feb. 19.

Wis., Milwaukee — APARTMENT and STORE—Lillydahl Bros., 425 East Water St., plans 3 story and basement, brick and tile, Astor St. $150,000. Engineer and architect not selected.

Wis., Milwaukee — BUSINESS — J. B. Olinger, 194 3rd St., having revised plans prepared by Leiser & Holst, 105 Wells St., 4 story and basement, 42 x 120 ft., and 1 story, 42 x 120 ft. top addition to present building, brick and steel, plain and wood pile foundation, 3rd St. and Wells Ave. Noted June 4.

Wis., Milwaukee — TEMPLE — Tripoli Temple, Nobles of Mystic Shrine, L. Schneller, 399 4th St., chn. building com., plans 3 story and basement, 100 x 120 ft., brick or stone and concrete, Grand Ave. $450,000. Engineer and architect not selected.

Wis., Waukesha—BATH HOUSE—Waukesha Moor Baths, Prospect Ave., had plans prepared by Van Ryn & De Gelleke, 114 Grand Ave., Milwaukee, 3 story and basement, 55 x 140 ft., rein.-con. and brick addition, plain foundation. $150,000. Noted Feb. 12.

Ia., Cedar Rapids—MEMORIAL—Voted $800,000 bonds, 3 story and basement, 160 x 270 ft. veterans memorial building, Municipal Island. Noted May 21.

Ia., Des Moines—LODGE—Des Moines Consistory 3, Masonic Temple, takes bids about Oct. 1, 117 x 162 ft. lodge, 75 ft. high, rein.-con., steel and stone, 6th and Park Sts. Wetherell & Harrison, 1012 S. & L. Bldg., archts. Keffer & Hones, 202 Masonic Temple Bldg., consult. archts. Noted Jan. 1.

Ia., Marshalltown—THEATRE, etc.—A. H. Blank Enterprises, 326 Iowa Bldg., Des Moines, postponed until 1926 building 3 or 4 story and basement, rein.-con., brick, tile and stone, theatre, store and office building. $400,000 or more. Engineer and architect not announced. Noted Jan. 29.

Ia., Sioux City — EXCHANGE — Sioux City Telephone Co., 314-16 Jones St., having plans prepared by W. L. Steele, Union Bank Bldg., 3 story and basement, 95 x 150 ft., rein.-con., brick, 9th and Douglas Sts. $275,000.

Kan., Independence — TEMPLE — York Rite Masonic Lodge, c/o R. Schultz, grand master, having plans prepared by C. A. Smith, 800 Finance Bldg., Kansas City, Mo., 3 story and basement, 80 x 120 ft., rein.-con., brick and stone, 6th and Myrtle Sts. $250,000. Noted Mar. 12.

Kan., Wichita — OFFICE and WAREHOUSE — Grant-Billingsley Produce Co., 123 North Rock Island, plans 6 story and basement, 107 x 140 ft., rein.-con. and brick office and warehouse building. $250,000. Engineer and architect not selected.

N. D., Fargo—LODGE—Grand Lodge A. O. U. W., Fargo, having plans prepared by Keith & Kurke, 211 Equity Bldg., 3 story, 60 x 80 ft., rein.-con. and stone, 10th St. and 2nd Ave. N. $150,000.

Mo., Jefferson City — HOTEL — Realty Holding Co. having preliminary plans prepared 5 story and basement, rein.-con., brick and stone, East High and Adams Sts. $300,000. Private plans.

Mo., Joplin—Y. M. C. A., 510 Wall St., W. J. Leffen, trustee, plans new building. $500,000.

Mo., Joplin — Y. W. C. A. having preliminary plans prepared 3 story and basement, rein.-con., brick and stone building with swimming pool, gymnasium, dormitories, etc. $350,000.

Mo., Kansas City—BUSINESS—F. G. Bonfields, c/o F. C. Gunn, archt., 1118 Continental Bldg., having preliminary plans prepared 3 story and basement, 112 x 116 ft., rein.-con., brick, steel and terra cotta. $300,000.

Mo., Kansas City—HOSPITAL—Kansas Conference of Augustana Lutheran Synod having plans prepared by M. J. Strum, Chicago, Ill. 5 story and basement, 42 x 104 ft. addition and 2 story, 24 x 50 ft. heating plant for nurses home, both rein.-con., plain foundation, 30th and Wyandotte Sts. $150,000. H. C. Eckland & Co., Moline, Ill., engrs.

Mo., Kansas City — HOTEL — Rogers-Johnson Building Co., Title Bldg., having plans prepared by W. Koch, 801 Mutual Bldg., 10 story and basement, 48 x 132 ft., rein.-con., plain foundation, 1016-18 Locust St. $600,000. R. E. Peden, 3500 Troost Ave., engr.

Mo., Kansas City—HOTEL—A. R. Young, Barclay Bldg., having plans prepared by J. S. White, Barclay Bldg., 12 story and basement, 68 x 180 ft., rein.-con., plain foundation, 3623 Bway.

Mo., St. Louis—HOTEL—Coronado Hotel Co., 1042 International Life Bldg., having preliminary plans prepared by P. J. Bradshaw, 1012 International Life Bldg., 14 story and basement, 93 x 99 ft., rein.-con., brick, stone, steel and terra cotta addition, Spring Ave. and Lindell Blvd. $500,000.

Mo., St. Louis—MASONIC TEMPLE—Beacon Lodge A. F. & A. M., c/o H. Kroeple, master, 4254A Farlin Ave., purchased site and having preliminary plans prepared rein.-con., brick and stone, Kingshighway and Lorain Ave. $200,000. Private plans.

Mo., St. Louis—STORE—Hub Furniture Co., C. F. Levy, 8th St. and Washington Ave., soon takes bids new 10 story and basement, rein.-con., brick, also 2 story addition to existing 8 story building, Washington Ave. $450,000.

Mo., St. Louis—THEATRE and STORE —R. Levine, c/o R. Levine & Co., Inc., archts., 6951 South Green St., Chicago, Ill., having preliminary plans prepared 3 story and basement, 147 x 213 ft., rein.-con., brick and terra cotta, Gravois St., here. $300,000.

Ark., Ft. Smith — CITY HALL, etc. — Plans election $250,000 bonds for city hall and auditorium, $35,000 for fire station and equipment, and $20,000 for annex to Carnegie Library. M. J. Miller, comr.

Ark., Paragould—THEATRE—M. Simms et al., having plans prepared by E. M. Weems, Paragould, 50 x 120 ft. theatre. $150,000.

Ark., Texarkana — CITY HALL — City having plans prepared by Witt, Seibert & Halsey, 811 Texarkana Natl. Bank Bldg., 3 story, rein.-con. and stone, 3rd and Walnut Sts. $250,000. Noted May 1.

Tex., Dallas—OFFICE—Z. E. Marvin, Rowan Bldg., having plans prepared by Lang & Witchell, Amer. Exch. Bank Bldg., 10 story and basement, 50 x 100 ft., rein.-con., brick, steel and terra cotta, Akard and Main Sts. $450,000.

Tex., San Antonio—CLUB—Historic San Antonio and Casino Clubs, Casino Hall, plan 6 story and basement, 21 x 122 ft., rein.-con., brick and stone, plain foundation, Press and Crockett Sts. $200,000. Engineer and architect not selected.

Tex., San Antonio — DORMITORY — Westmoreland College, 726 West Waco St., having plans prepared by Adams & Adams, archts. and engrs., 3 story and part basement, rein.-con., brick and stone, plain foundation, West End. $150,000.

Tex., Wichita Falls — HOTEL — R. M. Waggoner, et al, plan 10 story and basement, 300 or 400 room, brick and rein.-con., 8th and Indiana Sts. $650,000. Engineer and architect not selected.

Okla., Bartlesville — OFFICE — Phillips Petroleum Co. plans 7 story and basement, 65 x 140 ft. office building. $500,000.

Okla., Oklahoma City — BANK and OFFICE—J. B. Jones, Amer. Natl. Bank Bldg., having plans prepared by Hawk & Parr, Cotton Exch. Bldg., 3 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, 2nd and Robinson Sts. $150,000.

Wash., Okanogan—SANITARIUM—Epso Products Co., Oroville, E. A. Sherwood, mgr., plans sanitarium and resort on Osooyos Lake. $1,000,000.

Buildings—Commercial (Continued)

Wash., Seattle — HOSPITAL — Swedish Hospital Assn., N. A. Johanson, dir. Bd. Trustees, plans (1st unit of 300 beds) concrete addition, Sumit Ave. and Columbia St. $600,000.

Wash., Seattle — THEATRE — Greater Theatres Co., 1520 1st St., Jensen & Von Herberg, having plans prepared by B. M. Priteca & F. J. Peters, Pantages Bldg., 100 x 354 ft., Spanish design, concrete, Bway. N. between Harrison and Republican Sts. $500,000.

Calif., Agnews — HOSPITAL — State Building Comn., Sacramento, having plans prepared by G. B. McDougall, Forum Bldg., Sacramento two 2 story, rein.-con. patients buildings, at state hospital, here. $150,000.

Calif., Balboa—CLUB—Balboa Palisades Club, c/o Rea & Garstang, Trust & Savings Bldg., Los Angeles, archts., having preliminary plans prepared 3 story and basement, 110 x 230 ft., concrete and hollow tile club. $150,000.

Calif., Berkeley — THEATRE Beach — Krahn Amusement Co., c/o J. W. Plachek, archt., 2014 Shattuck Ave., having preliminary plans prepared fireproof theatre, College Ave. $150,000-$200,000.

Calif., Long Beach—HOTEL—Castilian Hotel Corp., c/o L. Farwell, archt., Laughlin Bldg., Los Angeles, plans rein.-con., Seaside Blvd. $2,500,000.

Calif., Los Angeles—APARTMENT—L. Korn, archt., Financial Center Bldg., preparing plans 4 story and basement, 200 room, brick, Gramercy Pl. near 8th St. $150,000 or more. Owner's name withheld.

Calif., Los Angeles—APARTMENT and STORE—H. H. Helbush, 2008 West 7th St., plans ultimately 12 story, rein.-con. and steel, on 140 x 240 ft. site, 7th and Parkview Ave. $250,000.

Calif., Los Angeles—STORE and HOTEL —Obehorff Bros., having plans prepared by S. C. Lee, Douglas Bldg., 4 story, 100 x 135 ft., brick and terra cotta, 8th St. between Fedora St. and Kenmore Ave. $200,000.

Calif., Los Angeles—THEATRE—F. E. Veeler, c/o J. M. Cooper, Marsh-Strong Bldg., archt., having plans prepared 88 x 150 ft., rein.-con., 6th St. and Grand Ave. $500,000.

Calif., Los Angeles — THEATRE and STORE—J. Toplitzky, et al., c/o G. A. Lansburgh, Hill St. Bldg., having preliminary plans prepared Class A, theatre and store building, on 195 x 225 ft. site, Wilcox Ave. and Hollywood Blvd.

Calif., Los Angeles—THEATRE, etc.—J. M. Cooper, archt., Marsh-Strong Bldg., preparing plans 2 story and basement, 260 x 260 ft., brick and rein.-con., theatre, store and office building, with ice skating rink, Vine St. $350,000. Owner's name withheld.

Calif., Monterey—THEATRE—Monterey Theatres Co., c/o Reid Bros., archts., 105 Montgomery St., San Francisco, having plans prepared rein.-con., 2,000 seating capacity, Alvarado St. $150,000. Noted Jan. 1.

Calif., Oakland—HOTEL—J. K. Leaming, c/o W. H. Weeks, archt., 1924 Bway., having plans prepared 10 story, 300 room, brick and concrete, 19th and Franklin Sts. $1,500,000.

Calif., San Bernardino—THEATRE and STORE—Mayer Picture Finance Corp. of Hollywood, having preliminary plans prepared by C. R. Selkirk, 800 Amer. Bank Bldg., archt., 2 story, 140 x 160 ft. concrete and brick theatre, store, and loft building, 3rd and Arrowhead Sts. $300,000.

Calif., San Diego—HOSPITAL, etc.—Bd. Supervs. San Diego Co. election about July 14, $450,000 bonds, enlarging various county buildings, incl. hospitals, detention home, and home for aged. J. B. McLees, co. clk.

Calif., San Francisco—APARTMENT—R. C. Kennedy, c/o Quandt Bros., archts., Humboldt Bank Bldg., San Francisco, having plans prepared 12 story and basement, rein.-con., Pacific Ave. To exceed $500,000.

Calif., San Francisco—APARTMENT and STORE—G. ..olle, 2012 Mission St., having plans prepared by C. A. Meussdorffer, Humbolt Bank Bldg., 4 story and basement, concrete, Mission St. $150,000.

Calif., San Francisco—BANK—Hibernian Savings & Loan Society, Jones and Market Sts., had plans prepared by Bakewell & Brown, 251 Kearny St., Class "A" with granite bank. $150,000.

Calif., San Francisco—HOTEL—L. W. Huckins, Fort Worth, Tex., et al., having plans prepared by Reid Bros., 105 Montgomery St., 20 story and basement, 650 room, Class A, on 119 x 138 ft. site, Powell and Sutter Sts. $3,000,000.

Calif., San Francisco—HOTEL—G. L. Rosebrook, archt., Monadnock Bldg., preparing plans 6 story and basement, steel, Sacramento St. near Van Ness Ave. $150,000. Ellison & Russell, Pacific Bldg., engrs. Owner's name withheld.

Calif., San Francisco — THEATRE — T and D Junior Circuit, 150 Leavenworth St., having preliminary plans prepared by Miller & Pflueger, Lick Bldg., Class A, Polk St. $150,000.

Calif., San Rafael — HOSPITAL — San Rafael Hospital, c/o J. A. Porporato, archt., 619 Washington St., San Francisco, having plans prepared 3 story and basement, fireproof, 4th St. and State Highway. $150,000.

Calif., Stockton—BANK—Bank of Italy, Eddy and Powell Sts., San Francisco, having plans prepared by H. A. Minton, Monadnock Bldg., San Francisco, 1 story and basement, brick and terra cotta, Main and Hunter Sts., here. $200,000.

INSTALLATION OF TRACKS—NEW YORK, N. Y.

Bids were opened (lowest three) by Board of Transportation, 49 Lafayette St., May 22, for installation of tracks, Lenox Ave. and 148th St. Yard, (A) McElroy & Kerwin, Inc. (awarded contract); (B) Fox, Reynolds Co., Inc.; (C) Slattery Engineering & Construction Co., Inc. The unit bids are as follows:

	A	B	C
2,500 cu.yd. earth excavation	$3 60	$3 40	$4 00
700 cu.yd. rock excavation	10 00	8 00	8 00
45 cu.yd. concrete masonry (a) 1:2:3	85	15 00	20 00
560 cu.yd. concrete masonry (b) 1:2½:5	16 00	14 00	18 00
13 ton furnishing and laying straight cast-iron pipe	100 00	100 00	125 00
2 ton furnishing and laying cast-iron hub and spigot pipe	105 00	100 00	150 00
31 ton furnishing, delivering and erecting structural steel	180 00	150 00	250 00
3 ton steel rods, angles, anchors, steps, etc.	150 00	150 00	150 00
½ ton miscellaneous iron castings	200 00	150 00	250 00
820 cu.yd. broken stone (a) 2½ in.	5 60	4 50	3 75
185 cu.yd. broken stone (b) 1½ in.	5 60	4 50	3 75
4,700 lb. steel checkered plate	10	12	10
1,525 lin.ft. wrought iron electric conduit (a) ¾ in.	25	50	30
385 lin.ft. wrought iron electric conduit (b) 1 in.	30	60	40
425 lin.ft. wrought iron electric conduit (c) 1½ in.	40	80	60
210 lin.ft. wrought iron electric conduit (d) 2 in.	55	90	1 00
118 cast-iron outlet boxes	2 00	3 00	1 50
5 cast iron pull boxes (a) 6 x 6 x 4	3 75	4 00	7 00
4 cast iron pull boxes (b) 8 x 8 x 4	4 70	10 00	10 00
2 cast iron pull boxes (c) 12 x 12 x 4	8 00	15 00	15 00
14 (a) bumping posts, type N	50 00	10 00	25 00
260 installation of anti-creepers	15	12	10
Installation modified type I track			
30 lin.ft. (a) tangent and curves over 2,000 ft. radius	1 50	2 00	2 50
65 lin.ft. (b) curves 701 to 2,000 ft. radius	2 25	4 00	2 75
300 lin.ft. (c) curves under 701 ft. radius	3 50	4 00	3 00
Installation modified type VI track			
470 lin.ft. (a) tangent and curves over 2,000 ft. radius	1 50	2 00	1 75
470 lin.ft. (b) curves under 701 ft. radius	3 50	3 00	2 75
1,345 lin.ft. installation of pit type track	1 25	1 20	2 00
1 portion installation of special work portion 265, etc.	1,325 00	2,100 00	1,700 00
1 portion installation of special work portion 266, etc.	825 00	1,200 00	1,500 00
1 portion installation of special work portion 267, etc.	715 00	1,600 00	2,000 00
1 portion installation of special work portion 270, etc.	1,420 00	2,740 00	1,200 00
1 portion installation of special work portion 271, etc.	1,190 00	3,210 00	1,500 00
1 portion installation of special work portion 272, etc.	1,360 00	3,270 00	1,500 00
1 portion installation of special work portion 273, etc.	1,255 00	2,615 00	1,500 00
1 portion installation of special work portion 274, etc.	1,125 00	2,950 00	1,500 00
150 lin.ft. furnishing and installing steel rolling doors, type R	41 50	44 00	33 00
1. reconstruction, etc., of bent No. 34 of paint shop (lump sum)	9,600 00	10,000 00	14,000 00
1,750 lin.ft. removal of existing tracks east of paint shop	1 00	50	50
Tearing down old paint and oil house, blacksmith shop, etc. (lump sum)	1,500 00	5,000 00	4,900 00
Extended totals	$73,916	$83,502	$85,407

BIDS DESIRED

Mass., Boston—NURSES HOME—Beth Israel Hospital, 45 Townsend St., Roxbury, taking new bids 4 story and basement, 40 x 127 ft. with 37 x 40 ft. wing, brick and stone, plain foundation, Brookline and Longwood Aves., Back Bay Dist. Former bids rejected. Densmore, LeClear & Robbins, Park Sq. Bldg., Boston, archts. Noted May 14.

Mass., Wellesley — HOSPITAL — Convalescent Home for Children—taking bids 2 story and basement, brick hospital. $150,000. S. W. Mead, 804 Barristers Hall, Boston, archt. Noted Jan. 29.

Conn., Bridgeport—APARTMENT—Owner, c/o R. Williams, archt., 1838 Whitney St., Hamden, taking bids 6 story, 85 x 800 ft., brick and steel, North End. $1,000,000.

N. Y., Coney Island (Brooklyn P. O.)—HOTEL—July 6, by Amer. Hotels Co., 25 West 45th St., New York City, 17 story, brick, steel and stone, plain foundation, Boardwalk and 29th St. Former bids rejected. G. B. Post & Sons, 101 Park Ave., New York City, archts. and engrs. Noted June 18.

N. Y., Garden City — APARTMENT — Garden City Apartments, Inc., C. I. McLaine, secy., 19 West 44th St., New York City, taking sub-bids 4 story, brick, Hilton and Franklin Aves., here. $550,000. Schwartz & Gross, 347 5th Ave., New York City, archts.

N. J., Atlantic City—THEATRE—Hoffman-Henon Co., archts. and engrs., Finance Bldg., Phila., Pa., taking sub-bids 4 story and basement, 150 x 200 ft., rein.-con., brick and steel, Atlantic and Missouri Aves., for Stanley Co. of America, 1916 Race St., Phila., Pa. $1,000,000.

N. J., Trenton Junction (Trenton P. O.) —DORMITORY—July 6, by Bd. Institutions & Agencies, Trenton, 2 story and basement, 97 x 150 ft. dormitory, $165,000; partitions, additions and alterations to other buildings. Total $203,500. Guilbert & Betelle, Commerce Bldg., Newark, archts.

Pa., Phila. — GARAGE — June 26, by Stetler & Deysher, archts., Jefferson Bldg., 6 story and basement, 55 x 100 ft., brick and steel, plain foundation, 914 Sansom St., for Irving Hotel, 917 Walnut St.

Pa., Phila.—WAREHOUSE—June 27, by J. E Bullock, archt., 34 South 17th St., 3 story and basement, brick and timber 10th and Erie Sts., for Tomlinson Holding Co., c/o architect.

Md., Baltimore—EXCHANGE—July 6, by Chesapeake & Potomac Telephone Co., 5 Light St., having plans prepared by McKenzie, Voorhees & Gmelin, Continental Bldg., Wash., D. C., 3 story and basement, 63 x 152 ft., brick and steel, 31st St. and Guilford Ave. $150,000.

D. C., Wash.—HOSPITAL—June 26, by Ballinger Co., archts. and engrs., and J. P. Richter, archt., 12th and Chestnut Sts., Phila., taking bids on revised plans, for Sibley Memorial Hospital, Pierce and North Capital Sts. Former bids rejected. Noted May 28.

Ga., Alto—HOSPITAL—July 1, by State Bd. Health, Atlanta, brick and concrete tuberculosis hospital, here. $500,000. Daniell & Bentell, Healy Bldg., Atlanta, archts.

O., Cleveland — STORE, HOTEL and GARAGE—J. Babin, 307 Williamson Bldg., taking bids 5 story, brick, steel and concrete, 6024 Euclid Ave. $300,000. N Petti, Williamson Bldg., archt.

O., Youngstown—DETENTION HOME—June 29, by Bd. Comrs. Mahoning Co., 3 story and basement, 75 x 110 ft., brick, steel and concrete home. $150,000. Stanley & Scheibel, Wick Bldg., archt. Noted Jan. 8.

Wis., Milwaukee — APARTMENT — R. Razall, archt., 220 Martin St., taking bids and open same about June 22, 3 story, 52 x 245 ft., brick and concrete, plain foundation, Prospect Ave., for G. W. Adams Building Co., 220 Martin St. $300,000.

Wis., Racine—WAREHOUSE—L. Lehle, archt., 3810 Bway., Chicago, Ill., taking bids 4 story and basement, 123 x 125 ft., rein.-con. and brick warehouse, here, for Horlick's Malted Milk Co., Northwestern Ave. To exceed $150,000.

Kan., Newton — HOTEL — July 1, by Greenbaum, Hardy & Schumacher, Archts., 216 Scarritt Bldg., Kansas City, Mo., 5 story and basement, 68 x 79 ft., rein.-con., brick and terra cotta. $150,000. Owner's name withheld.

N. D., Grafton—DORMITORY—July 1, by State Bd. Administration, E. G. Wanner, secy., Bismarck, 4 story and basement, rein.-con., brick and stone, at Institution for Feebleminded, here. $200,000. J. B. De Remer, Grand Forks, archt.

Buildings—Commercial (Continued)

Tex., Ft. Worth—WAREHOUSE—Monnig Dry Goods Co., 1302 Main St. and Sanguinet, Staats & Hedrick, archts., 1st Natl. Bank Bldg., taking bids 6 story and basement, 100 x 200 ft., rein.-con. and brick, plain foundation, Main St. $200,000.

Tex., San Antonio—TEMPLE—Temple Beth El, Travis and Jefferson Sts., M. Stern, chn. Building Com., taking bids 2 story and part basement, rein.-con., tile and stucco, Ashby and Belknap Sts. $250,000. Seutter & Simons, Builders Exch. Bldg., archts. Noted June 11.

Calif., Los Angeles — THEATRE and STORE—L. L. Bard Theatres, Inc., 100 Pershing Sq. Bldg., taking bids 2 story, 100 x 205 ft., rein.-con., 1617-21 North Vine St. $175,000. L. A. Smith, Lily-Fletcher Bldg., archt. Noted June 11.

BIDS RECEIVED

N. Y., Troy—HOTEL—Community Hotel Corp., 8 story, 90 x 190 ft., rein.-con., brick and steel, Bway., from E. F. Carlson Co., 244 Main St., Springfield, Mass., $479,-750. Noted Jan. 1.

CONTRACTS AWARDED

N. H., Nashua—STORE and OFFICE—D. F. Shea, 14 High St., 2 story and basement, 75 x 95 ft., to Nashua Building Co., 95 Temple St. Archts. est. $150,000.

Massachusetts — TELEPHONE — New England Telegraph & Telephone Co., Milk St., Boston, two 2 story and basement, 60 x 70 ft., brick telephone buildings, one in Needham and other in Wakefield, to Holt-Fairchild Co., 7 Water St., Boston. Archts. est. $150,000. Noted June 11.

Mass., Andover—HALL—Town, 2 story and basement, brick, stone and steel, plain foundation, to D. J. Costello, 24 Main St., North Andover. Archts. est. $150,000.

Mass., Attleboro—STORE, OFFICE and MANUFACTURING — M. Wunsah, Industrial Trust Bldg., 2 story, brick and limestone, Dunham and Union Sts., to Lull Constr. Co., 308 Main St., Pawtucket, R. I. Archts. est. $150,000.

Mass., Boston—GARAGE—North Terminal Corp., Commercial St., 3 story, rein.-con., Commercial St. between Prince and Hull Sts., to Aberthaw Co., 27 School St. Archts. est. $150,000.

Mass., Dedham—BANK—Dedham Natl. Bank, E. L. Richardson, pres., will build 2 story and basement, rein.-con., brick and steel, Washington St., by day labor. L. C. Greenleaf, 101 Tremont St., Boston, archt. $150,00. Noted Mar. 19.

Mass., East Boston (Boston P. O.) — HOSPITAL—City of Boston, G. R. White Fund Trustees, 2 story and basement, brick and limestone, plain foundation, Paris and Emmons Sts., to A. Piotti & Co., 708 Dudley St., Dorchester, $156,982. Noted June 11.

R. I., Providence—HOSPITAL—Miriam Hospital Corp., c/o Kendall, Taylor & Co., archts., 142 Berkley St., Boston, 4 story and basement, brick and stone, plain foundation, Parade and Oak Sts., to E. Turgeon, 86 Weybosset St. Archts. est. $200,000. Noted Apr. 30.

Conn., Hartford — APARTMENT — Andover Realty Co., Inc., c/o S. Douglas, 658 Farmington Ave., will build 4 story, 85 x 90 ft., brick, stone and steel, Farmington Ave., by day labor. $200,000. Private plans.

Conn., New Haven—BANK—New Haven Savings Bank, 170 Orange St., 3 story and basement, brick, steel and marble addition, Orange and Hope Sts., to C. W. Murdock, Inc., 505 Grand Ave. Archts. est. $150,000 plus. Noted Apr. 23.

N. Y., Brooklyn—APARTMENTS—Ocean Ave. Corp., c/o Slee & Bryson, archts. and engrs., 154 Montague St., brick, steel and stone, plain foundation, Ocean Ave., to Coogan & Runkle, 47 West 42nd St., New York City. Archts. est. $375,000 each.

N. Y., Brooklyn—Y. M. C. A., brick, steel and stone, plain foundation, Highland Park Branch, to W. Kennedy Constr. Co., 215 Montague St. Archts. est. about $1,000,000.

N. Y., Wende—HOSPITAL, etc.—Erie Co., City Hall, Buffalo, constructing hospital and garage buildings, at Erie Co. Penitentiary, here, to Morris & Allen, Jackson Bldg., Buffalo, $306,000.

N. J., Atlantic City—HOTEL—Wm. Penn Apartment Corp., c/o Lippincott & Schaef, archts., 11 South 16th St., Phila., Pa., 6 story and basement, 140 x 149 ft., brick and steel, Indiana and Pacific Aves., here, to M. B. Markland, Georgia Ave. Archts. est. $600,000.

Pa., Altoona — CITY HALL — City, 3 story and basement, 100 x 120 ft., 13th Ave., general contract, to Columbia Constr. Co., Inc., Altoona Trust Bldg., $246,914. This corrects report in June 18 issue.

Pa., Erie—BANK and OFFICE—Dennison & Hirons, archts., 288 Lexington Ave., New York City, 13 story and basement, 82 x 160 ft., brick and steel, plain foundation, State and 10th Sts., to Sheink Constr. Co., Erie, for Erie Trust Co. Archts. est. $1,000,000. Noted May 28.

Pa., Erie—Y. W. C. A., 1045 West 9th St., general contract 2 story, 71 x 160 ft., rein.-con., brick and steel, incl. swimming pool, to Upton & Lang, Commerce Bldg. Archts. est. $200,000. Noted June 4.

Fla., Jacksonville—STORE and LODGE —R. A. Benjamin, archt., Bisbee Bldg., 2 story and basement, brick and steel, to H. S. Baird, 3612 Oak St., for Elks Club. Archts. est. $150,000. Noted Feb. 12.

Pa., Kingston—BANK—Morgan French Co., archts., 19 West 44th St., New York City, 1 story, basement and mezzanine, 56 x 151 ft., brick and steel, plain foundation, here, to H. Nailander, Wilkes-Barre, for Kingston Bank & Trust Co. Archts. est. $150,000. Noted May 7.

Pa., Lebanon—OFFICE, etc.—Phila. & Reading R.R., Reading Terminal, Phila., 2 story and basement, 21 x 30 ft., and 30 x 85 ft., brick and steel office building, 30 x 156 ft. freight house, and 25 x 75 ft. shed, both brick and steel, to Rapp Constr. Co., Lebanon.

La., Baton Rouge—DORMITORY—Building Com. State University, 3 story, brick dormitory, to Caldwell Bros., 816 Howard Ave., New Orleans, $374,421, paving cloister and walks of university, to Barbay & Haase, City Hall, $7,690.

O., Cleveland — WAREHOUSE — G. Worthington Co., J. J. Scullian, secy., 802 St. Calir Ave., 5 story and basement, 44 x 119 ft., brick, steel and concrete, Johnson Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $150,000. Noted June 18.

O., Lancaster—BANK—Lancaster Savings & Trust Co., 1 story, 50 x 200 ft., brick, steel and concrete addition, to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg. Archts. est. $200,000.

Mich., Dearborn — TEMPLE — Masonic Temple Assn., 3 story and basement, 60 x 110 ft., rein.-con., brick and steel, plain foundation, to Malow-Barry Co., 2631 Woodward Ave., Detroit. Archts. est. $150,000.

Mich., Detroit—OFFICE—G. D. Mason & Co., archts., 80 Griswold St., 10 story and basement, 45 x 110 ft., brick, terra cotta and stone, Bway. near Gratiot Ave., to Everett Winters Co., 1024 Book Bldg., for Scherer Estate, c/o architects. $450,000. Noted May 7.

Mich., Detroit—OFFICE—Book Estate, Book Bldg., Washington Blvd., 35 story and basement, 61 x 105 ft., rein.-con., brick, stone and steel, Grand River Ave. and Washington Blvd., to Starrett Bros., 160 North La Salle St., Chicago, $3,000,000. Noted Apr. 6.

Wis., Merrill—HOSPITAL—Sisters of Holy Cross of Switzerland, M. Prock, pastor, 3 story and basement, 52 x 150 ft., brick and concrete, plain foundation, to Pehrson Bros., 555 Temple St., Minneapolis, Minn. Archts. est. $150,000. Noted May 28.

Wis., Milwaukee—THEATRE and BUSINESS—Peacock & Frank, archts., 445 Milwaukee St., 2 story and basement, 72 x 125 ft., rein.-con. and brick, plain foundation, Delaware St., to T. Stark & Co., 130 Muskego Ave., for Badger Building Service, 445 Milwaukee St. Archts. est. $150,000. Noted May 7.

Wis., Racine—HOTEL—Racine Hotel Co., 304 Badger Bldg., 7 story and basement, 106 x 144 ft., brick, terra cotta and concrete, plain foundation, 6th and Main Sts., to Raulf Co., 428 Grand Ave., Milwaukee. Archts. est. $1,000,000. Noted May 14.

Minn., St. Paul — DORMITORY — Concordia College, Marshall Ave. and Syndicate St., general contract (1st unit) 2 story and basement, 64 x 205 ft., rein.-con. and brick, 269 Syndicate St., to Madsen Constr. Co., Builders Exch., Minneapolis, $112,000.

Kan., Topeka — HOSPITAL — Stormont Hospital, 334 Greenwood St., c/o C. A. McGuire, chn., 4 story and basement, 49 x 59 ft., rein.-con., brick and stone, Greenwood St., to Lundgren & Carlson, 204 West 8th St. Archts. est. $150,000.

Neb., Omaha — HOSPITAL — Swedish Emmanuel Deaconess Hospital, 34th and Meredith Sts., general contract 4 story and basement, rein.-con., brick and stone, to J. Soderberg, 1818 Harney St., $153,666; plumbing and heating, to J. Anderson, 709 South 24th St., $26,774.

Mo., Independence—MEMORIAL—City, general contract 2 story and basement, 81 x 142 ft., brick, steel and stone memorial and community center, to M. T. Colgan, 1702 Overton St. Archts. est. $150,000. Noted Jan. 1.

Mo., St. Louis—APARTMENT—G. G. Boland, et al., 5510 Waterman Ave., Hampden Hall, 14 story and basement, rein.-con., brick, stone and terra cotta, McPherson and Newstead Sts., to A. D. Gates Constr. Co., Chemical Bldg. Archts. est. $870,000.

Mo., St. Louis—APARTMENT—R. P. Britton et al., 110 North 7th St., Graystone Hall, 13 story and basement, rein.-con., brick and stone, Newstead and McPherson Sts., to A. D. Gates Constr. Co., Chemical Bldg. Archts. est. $850,000.

Mo., St. Louis—CLUB—Y. M. H. A., 3 story and basement, rein.-con., brick and stone club with swimming pool, gymnasium, auditorium, roof garden, etc., Union and Enright Aves., to Humes-Deal Co., Syndicate Trust Bldg. Engrs. est. $500,000.

Mo., St. Louis—HOTEL—M. D. Israel Hotel & Realty Co., c/o Princess Hotel, 5 story and basement, 72 x 200 ft., rein.-con. and brick addition to Princess Hotel, 17th and Chestnut Sts., to Ruckett Constr. Co., 3314 Lemp St. Noted Dec. 11.

Mo., St. Louis—Y. M. C. A., c/o B. W. Moser, 6186 McPherson St., 10 story and basement, 137 x 155 ft., rein.-con., brick, stone and marble, incl. 25 x 75 ft. swimming pool, etc., 16th St. and Locust Blvd., to J. Stewart & Co., Planters Bldg. Archts. est. $1,500,000. Noted Jan. 8.

Tex., Laredo — HOTEL — Laredo Hotel Co., 8 story and basement, 126 room, rein.-con., brick, steel and stone, plain foundation, to Walsh & Burney, North Flores St., San Antonio, $236,488.

Okla., Tulsa — HOSPITAL — Sisters of Sorrowful Mother, Marshfield, Wis., 6 story and basement, irregular shape, rein.-con., brick and stone, South Utica St., here, to Hutter Constr. Co., 128 Western St., Fond du Lac, Wis., $350,000.

Colo., Denver — OFFICE — Tremont Investment Co., c/o G. Meredith Musick, archt., Foster Bldg., 12 story, 125 x 200 ft., 16th and Tremont Sts., to Dutton-Kendall Co., 2161 Bway., $1,650,000.

Calif., Fruitvale — STORE and THEATRE—A. A. Cantin, archt., Flatiron Bldg., San Francisco, 1 story, 100 x 190 ft., Class A, to Lawton & Vezey, 354 Hobart St., Oakland, $155,000. Owner's name withheld. Noted May 28.

Calif., Long Beach — HOTEL — F. B. Dunn, 2315 East 7th St., had preliminary plans prepared by Walker & Eisen, 756 South Spring St., Los Angeles, 12 story, 125 x 232 ft., terra cotta and pressed brick, Ocean Ave., from Locus St., to Collins Way. $1,600,000.

Calif., Los Angeles—THEATRE, STORE and OFFICE — Mutual Theatre Building Co., 2 story and basement, 90 x 150 ft., rein.-con., 6th St., to J. M. Cooper, Marsh-Strong Bldg., $300,000 cost plus percentage basis.

Calif., Pasadena—CLUB—Y. M. C. A. of Pasadena, 4 story and basement club, incl. swimming pool, Pasadena St., to W. C. Crowell, Security Bldg., $260,000. Noted Jan. 29.

Calif., San Francisco—THEATRE—B. Getz & Co., DeYoung Bldg., rein.-con., 1,400 seating capacity, West Portal Ave., to A. Johnson, 74 New Montgomery St., San Francisco, $150,000.

Buildings—Educational, Religious

PROPOSED WORK

Me., Bangor — SCHOOL — City, A. B. Garcelon, supt. schools, having plans prepared by C. P. Crowell & W. S. Lancaster, 27 State St., 2 story and basement, 64 x 208 ft. with 64 x 80 ft. wing, brick and stone, plain foundation, Bway. $250,000. A. S. Kellogg, 89 Franklin St., Boston, Mass., engr.

Me., Milford — HIGH SCHOOL — Town, Superintendent Schools, having plans prepared by Bunker & Savage, Augusta Trust Bldg., Augusta, 2 story and basement, brick and stone high school. $150,000.

Mass., Andover—AUDITORIUM—Phillip Andover Academy, having plans prepared by C. A. Platt, 101 Park Ave., New York City, new auditorium, on campus. To exceed $150,000.

Mass., Boston—SCHOOLS—School House Dept., T. P. Glynn, chn., having sketches made by Fay, Spofford & Thorndike, 200 Devonshire St., 2 story, brick elementary school, Bennet Dist., Brighton, $150,000; by J. A. Schwoinforth, 53 State St., high school

Buildings—Educational, Religious (Cont.)

(Practical Arts School) addition, Dearborn Dist., Roxbury, $300,000; by Mulhall & Holmes, 33 Newbury St., Charles Louge School addition, Tileston Dist., Dorchester, $150,000; by J. M. Gray, 175 High St., elementary school, Henry Grew Dist., Hyde Park, $180,000; by J. M. Gray, 88 Tremont St., high school, Henry Grew Dist., Hyde Park, $1,562,000.

Mass., Deerfield — SCHOOLS — Deerfield Academy, C. T. Plunkett, chn., having sketches made by W. L. Walker, 103 Park Ave., New York City, group of school buildings. $500,000. Noted Aug. 7.

Mass., Foxboro — HIGH SCHOOL — Town, M. E. Hall, secy. comn., having sketches made by C. R. Greco, 11 Beacon St., Boston, 2 story and basement, brick high school. $175,000. Noted Mar. 12.

Mass., Saugus — CHURCH — St. John's Episcopal Church having plans prepared by C. C. Coveney, 184 Boylston St., Boston, 2 story and basement, rein.-con. and brick church. $150,000.

Mass., Somerville (br. of Boston) — SCHOOL — Church of St. Catherine of Genoa, Spring Hill, plans parochial school, Summer and Belmont Sts. $150,000. Engineer and architect not selected.

R. I., Providence — SCHOOL — Rhode Island College, c/o W. R. Walker & Son, archts., 49 Weybosset St., having plans prepared 3 story, 60 x 200 ft., brick and terra cotta, plain foundation, Gaspee St. $650,000.

Conn., Middletown — LIBRARY and LABORATORY — Wesleyan College, J. H. McConaughty, pres., having plans prepared by McKim, Meade & White, 101 Park Ave., New York City, 3 story, 40 x 165 ft. library, and 2 story, 35 x 125 ft. laboratory, both brick and limestone. $300,000. Noted June 18.

N. J., Merchantville (Ind. br. of Camden) — SCHOOL — Pensauken Twp. Bd. Educ. plans 2 new schools. $650,000. G. H. Carson, clk.

N. J., Trenton—CHURCH—Har Sinai Congregation, Front and Stockton Sts., plans church. $200,000. S. R. Block, Mechanic Bldg., chn. Engineer and architect not selected.

Pa., Elizabethtown—SCHOOL—Masons of Pennsylvania having plans prepared by E. A. Wightman, Bankers Trust Bldg., Phila., Thomas Rankin Patton Memorial Industrial School for Boys, incl. work shops, machine shops, gymnasium, etc., on Masonic Home grounds.

Pa., Leetsdale — HIGH SCHOOL — Bd. Educ. having plans prepared by W. G. Eckles Co., New Castle, 2 story and basement, 120 x 140 ft., brick, tile and steel, Beaver St. $150,000.

Pa., Phila.—CHEMISTRY—University of Pennsylvania, 34th and Spruce Sts., plans chemistry on campus. $1,000,000. Stewardson & Page, 315 South 15th St., archts.

Pa., Phila.—LIBRARY—City having revised plans prepared by H. Trumbauer, Land Title Bldg., library, 19th, 20th, Vine and Wood Sts. Former bids rejected. Noted June 18.

Pa., Phila.—SCHOOL and AUDITORIUM —St. Agnes Roman Catholic Church, c/o J. S. York, pastor, 319 Brown St., having plans prepared by P. F. Getz, Victory Bldg., 2 story and basement, 57 x 102 ft., stone, plain foundation, Orianna and Brown Sts.

Pa., Westmont (mail Johnstown) — CHURCH, etc.—Vine St. Presbyterian Congregation having plans prepared by A. G. Lamont, 156 5th Ave., New York City, 2 story and basement, 49 x 72 ft., stone church and Sunday school. $150,000.

N. C., Greenville — COLLEGE — State Building Comn., Raleigh, plans steel, concrete and limestone campus building, at Teachers College, here. $300,000. H. A. Underwood Co., Commercial Bank Bldg., Raleigh, archt.

N. C., Kinston—HIGH SCHOOL—City plans new high school, 500 seating capacity. $225,000.

N. C., Raleigh — CHURCH — Christian Disciples Church plans stone church and Sunday school, Hillsboro St. $200,000. G. F. Cuthrell, pastor.

Fla., Ft. Myers—HOTEL and OFFICE—Bway. Building Corp., G. Sims, pres., having plans prepared by B. S. Martin, Ft. Myers, and M. L. Elliott, Citizens Bank Bldg., Tampa, 10 story and basement, Bway. and 1st St. $500,000.

Fla., Sarasota—HOTEL—F. W. Lytton, c/o Hotel Lucille, St. Petersburg, having preliminary plans prepared by Clas, Shepherd & Clas, 445 Milwaukee St., Milwaukee, Wis., 7 story and basement, brick and concrete hotel. $200,000.

Tenn., Harrogate—ADMINISTRATION —Lincoln Memorial University plans Citizenship Hall. $200,000 funds raised. Noted Mar. 19.

Tenn., Jamestown—COLLEGE—Fentress Co. and State Building Comn., plan Alvin York Agricultural College, here. $150,000. State appropriated $50,000 toward cost. County and private subscription the balance.

O., Berea—HIGH SCHOOL—Bd. Educ., L. A. Fowles, clk., having plans prepared by Fulton & Taylor, 8120 Euclid Ave., Cleveland, 3 story, brick, steel and concrete high school. $300,000. Noted Aug. 28.

O., Cleveland — COMMERCIAL and APARTMENT—M. Lieber & H. Freyman, 2552 Superior Ave., had plans prepared by Morris & Weinberg, 3608 Euclid Ave., 3 story and basement, 50 x 108 ft., brick and timber, 14626 Lake Shore Blvd. $150,000.

O., Cleveland — WAREHOUSE — G. Worthington Co., 802 St. Clair Ave., had plans prepared by Fulton & Taylor, 8129 Euclid Ave., 5 story and basement, 44 x 119 ft., brick and steel, Johnson Ave. $150,000.

Mich., Ann Arbor—CAMPANILE—University Alumna Assn. having plans prepared by E. Saarinen, University of Michigan, Marion Leroy Burton Memorial Campanile to include chimes, 200 ft. high, rein.-con., brick and stone, on campus. $200,000.

Mich., Detroit — CHURCH, etc. — West Grand Blvd. Methodist Episcopal Church, R. H. Bready, pastor, 1955 Lamothe Ave., having plans prepared 2 story and basement church, 4 story community building and gymnasium, and 9 story and basement apartment, rein.-con., brick and steel, West Grand Blvd. and 12th St. $850,000. Engineer and architects names withheld.

Mich., Detroit—CHURCH and SCHOOL —Dominican Sisters, c/o P. R. Rossello, archt., 406 Congress Bldg., plans 2 story, 120 x 230 ft. church, and 3 story, 108 x 130 ft., school, both rein.-con. and brick, Van Dyke Ave. $800,000.

Ill., Vandalia — HIGH SCHOOL — Bd. Educ. having preliminary plans prepared 3 story, rein.-con., brick and stone high school. $175,000. Engineer and architect not announced.

Wis., Madison — HALL — Bd. Regents University of Wisconsin, J. S. Phillips, bus. mgr., plans rein.-con., brick and steel addition to Main Hall, plain foundation, here. $250,000. Engineer and architect not selected.

Wis., Oshkosh—VOCATIONAL SCHOOL, etc.—Bd. Educ. takes bids in July, 3 story, 92 x 240 ft., brick and stone vocational school and 1 story wing for auditorium and gymnasium, plain foundation. $250,000. Auler & Jensen, F. R. A. Bldg., archts.

Kan., Dodge City — AUDITORIUM — Amer. Legion, C. Gould, Dodge City, commander, plans auditorium. $200,000.

Kan., Wichita — CHURCH — St. James Episcopal Congregation having plans prepared by Schmidt, Boucher & Overend, 4th Natl. Bank Bldg., Wichita, 2 story and basement, 108 x 119 ft., rein.-con., steel and stone church. $160,000.

Neb., Omaha — HIGH SCHOOL — Bd. Educ. having plans prepared by J. and A. McDonald, Standard Oil Bldg., 2 story and basement, fireproof high school. $500,000.

Neb., Omaha—SCHOOLS—Bd. Educ. having plans prepared by F. S. Stott, 216 Kennedy Bldg., Saratoga Grade School, 2 story and basement, Meredith St., $190,000; by F. A. Henninger, 604 Securities Bldg., Jackson Grade School, 2 story and basement, 33rd and Leavenworth Sts., $190,000; by T. R. Kimball, 836 World Herald Bldg., Beals Grade School, Center St., $125,000; by N. R. Grigham, 607 Keeline Bldg., Munroe School, $65,000; and by C. W. Steinbaugh, 662 Brandeis Theater Bldg., Washington School, $65,000, all fireproof construction.

Tex., San Antonio—HIGH SCHOOL—Election July 16th, $300,000 bonds, Junior High School, 2 story and part basement, rein.-con., brick and stone, plain foundation, Yorkshire St. and Berkshire Ave. Phelps & DeWees, Gunter Bldg., archts. Noted May 21.

Nev., Reno — EXPOSITION — State Building Comn., Carson City, had plans prepared by F. J. De Longchamps, Gazette Bldg., 2 story, brick or concrete exposition building, exposition grounds, here. $175,000. Noted

Wash., Seattle — AUDITORIUM — City Council having preliminary plans prepared by Schack, Young & Meyers, Central Bldg., civic auditorium, 3rd and 4th Aves., Harrison and Mercer Sts. $1,000,000. Appropriated $151,000 to purchase site for same.

Wash., Seattle — CHURCH — Schack, Young & Meyers, archts., Central Bldg., take bids about July 6, 1 story and basement, 120 x 120 ft., brick and cast stone church and auditorium, 550 seating capacity, 12 North East and East 42nd Sts., for University Baptist Church. $150,000.

Calif., Los Angeles—LIBRARIES—Voted $500,000 bonds to purchase sites and construct branch libraries.

Calif., Oakland — FACULTY — Redemptorist Order of Catholic Priests, c/o W. Mooser & Son, archts., Nevada Bank Bldg., San Francisco, having preliminary plans prepared (1st unit) 3 or 4 story, brick, concrete and steel, 82nd Ave. $150,000.

Calif., Oakland—SCHOOL—City having plans prepared by C. W. McCall, 1404 Franklin St., 2 story, timber, rein.-con. and hollow tile, 81st Ave. and Olive St. $150,000.

Calif., Redwood City — CHURCH — St. Peter's Episcopal Church, having preliminary plans prepared by Norberg & Norberg, 593 Market St., San Francisco, rein.-con., Brewster and Clinton Aves. $150,000 or more.

Ont., Dunnville — HIGH SCHOOL — Bd. Educ. having plans prepared by Burden & Gouinlock, 101 King St. W., Toronto, 2 story and basement, 8 or 10 room, rein.-con., brick and steel addition, plain foundation. $150,000.

Ont., Pembroke—HIGH SCHOOL—Bd. Educ. having plans prepared by Craig & Madill, 96 Bloor St. W., Toronto, 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation. $175,000.

Ont., Peterboro — COLLEGIATE — Bd. Educ. having plans prepared by W. and W. R. L. Blackwell, Canadian Bank of Commerce Bldg., 2 or 3 story and basement, 20 room, rein.-con., brick and steel addition, plain foundation. $300,000.

BIDS DESIRED

Me., Brewer — SCHOOL — City, H. R. Houston, supt. schools, taking bids on revised plans 2 story and basement, 96 x 162 ft., rein.-con., brick and stone, plain foundation, Center and Somerset Sts. $170,000. Butterfield Guertin Co., 801 Beach St., Manchester, N. H., archts. Noted June 11.

Me., Milford—SCHOOL—Town, Superintendent Schools, taking bids 2 story and basement, 56 x 140 ft., brick and timber school. $150,000. Bunker & Savage, Augusta Trust Bldg., Augusta, archts. Noted June 25.

Mass., Boston—CHAPEL—St. Elizabeths Hospital, 736 Cambridge St., Brighton, taking plans 1 story, 50 x 125 ft., rein.-con., brick and stucco, plain foundation. $150,000. E. T. P. Graham, Newbury St., Boston, archt.

Mass., Fitchburg—CHURCH—Immaculate Conception Church, taking bids, 1 story, brick and stone church. $150,000. O. A. Nault, 48 Hamilton St., Worcester, archt. Noted Jan. 15.

Mass., Quincy (Boston P. O.)—PARISH HOUSE—Christ Church taking bids 2 story and basement, 40 x 140 ft., granite and terra cotta, Quincy Ave. and Elm St. $150,000. G. W. Chickering, 162 Newbury St., Boston, archt. Noted Jan. 29.

Mass., Worcester—SCHOOL—Pub. Building Dept., City Hall, taking bids 2 story and basement, brick and steel addition, plain foundation, Elizabeth St. $150,000. J. Rustigian, 405 Main St., archt. Noted Apr. 2.

R. I., Lincoln—ACADEMY—Hope Riding School, 607 Smithfield Ave., Pawtucket, taking bids 1 story, 150 x 200 ft., brick and steel academy. $150,000. E. E. Cull, 17 Exchange St., Providence, archt.

Conn., Bridgeport — SCHOOL and COMMUNITY HOUSE — St. Stephens Roman Catholic Church, Wordin Ave., taking bids 2 story and basement, 115 x 120 ft., brick and steel, Wordin and St. Stephens Aves. $150,000. J. A. Jackson, 185 Church St., New Haven, archt. Noted May 28.

N. Y., Buffalo—HIGH SCHOOL—July 16, by Bd. Educ., 900 Genesee Bldg., 3 story, rein.-con., brick and stone, Northampton St. $800,000. F. J. Kidd, 524 Franklin St., archt.

N. Y., Rosedale (mail Jamaica) — SCHOOL—July 1, by W. H. Gompert, Supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, constructing 38, 241st St. from 135th and 136th Aves., here, for Bds. Educ., 500 Park Ave., New York City.

Pa., Indiana—CHURCH—United Presbyterian Congregation, 645 School St., and G. E. Savage, archt., Witherspoon Bldg., Phila., taking bids 1 and 2 story and basement, stone, Church St. $150,000. Noted June 4.

Pa., Lancaster — AUDITORIUM — June 26, by Day & Klauder, archts., Franklin

Buildings—Educational, Religious (Cont.)

Bank Bldg., Phila., Hensel Auditorium, 1 story, basement and gallery, 51 x 148 ft., brick, plain foundation, on campus, here, for Franklin & Marshall College. $175,000.

O., Lorain — CHURCH and SUNDAY SCHOOL—June 30, by Nicklas & Roderick, archts., 1227 Prospect Ave., Cleveland, 1 and 2 story, 100 x 135 ft., brick, steel and stone church and Sunday school, for First Methodist Episcopal Church, c/o C. B. Hess, pastor. $160,000. Noted Jan. 29.

O., Toronto—HIGH SCHOOL—June 30, by Bd. Educ., J. M. Anderson, Pres., fireproof high school, River Ave., Myers and 3rd Sts. Peterson & Clarke, Steubenville, archts.

Ill., Murphysboro—HIGH SCHOOL—July 6, by Bd. Educ. High School Dist. 100, Jackson Co., A. Stoelzle, secy., 2 story and basement, 80 x 115 ft., rein.-con., brick and stone, also repairing auditorium and gymnasium, etc. $150,000. R. Z. Gill, 1328½ Walnut St., archt. Noted Apr. 16.

Minn., Minneapolis—SCHOOL—July 2, by St. Helena Roman Catholic Parish, O. J. Rowan, pastor, 4320 33rd Ave. S., 2 story and basement, brick and stone, 33rd Ave. S. and 43rd St. $175,000. Noted Apr. 9.

Kan., Atchison—SCHOOL—July 1, by Bd. Educ., c/o A. Weinmann, clk., Franklin Grade School, 2 story, 88 x 110 ft., rein.-con., brick and stone. $150,000. W. H. Sayler & Co., 309 Mutual Bldg., Kansas City, Mo., archts. Noted June 11.

Mo., St. Louis—HIGH SCHOOL—July 8, by Educ., 911 Locust St., 3 story and basement, 269 x 368 ft., rein.-con., brick and stone, Market, Laclede, Cardinal and Garrison Sts. $875,000. R. M. Milligan, c/o owner, archt. and engr. Noted Apr. 2.

BIDS RECEIVED

N. Y., St. George—SCHOOL—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, June 18, general contract constructing P. S. 42, Augusta Ave., here, for Bd. Educ., 500 Park Ave., New York City, from Staten Island Constr. Co., 206 Bay St., Tompkinsville, $237,992; heating, from Clermont Heating Co., 480 Clermont Ave., Brooklyn, $30,170.

CONTRACTS AWARDED

Mass., Dalton—HIGH SCHOOL—Town, E. H. Pierce, chn. com., 2 story and basement, 60 x 170 ft., brick, to D. H. Pike Co., 30 Eagle St Pittsfield. Archts. est. $150,000. Noted June 11.

Mass., Northampton — SCHOOL — City, Superintendent Schools, 2 story and basement, brick, to E. E. Burns, Northampton. Archts. est. $150,000-$200,000. Noted Feb. 5.

Mass., Southboro—HALL—Trustees Fay School, 2 story and basement, 100 x 100 ft., brick, plain foundation, to H. P. Cummings Constr. Co., 14 Prospect St., Ware. Archts. est. $150,000.

Mass., Weston—CHAPEL—Scholasticate Society of Jesus, J. P. O'Gorman, pres., 1 and 2 story, brick and stone chapel and rotunda, plain foundation, Concord Rd., to J. P. Keating, 80 Boylston St., Boston. Archts. est. $1,000,000. Noted May 28.

Mass., Worcester—CHURCH—St. Peter's Roman Catholic Church, Main St., Springfield, 1 story, brick, to J. M. and C. J. Buckley Co., 164 Federal St., Boston. Archts. est. $150,000.

Mass., Worcester—SCHOOL—City, G. C. Halcott, supt. buildings, 2 story, brick, Pleasant St., to C. A. and A. N. Booth, 394 May St. Archts. est. $150,000.

R. I., Pawtucket—CHURCH—St. Luke's Episcopal Church, Weeden Ave., 1 story and basement, rein.-con. and stone, to Wilmarth & McKillop, Freeman St. Archts. est. $150,000.

R. I., Westerly—SCHOOL—Immaculate Conception Parish, F. Vincent, pastor, 2 story and basement, 100 x 105 ft., brick and stone, plain foundation, to J. A. St. Germain, 960 Bank St., New London, Conn. Archts. est. $175,000. Noted May 28.

Conn., Southington (Hartford P. O.)—SCHOOL—Bd. Educ., 2 story and basement, 16 room brick, to C. F. Wooding Co., Wallace Ave., Wallingford. Archts. est. $150,000. Noted June 4.

N. Y., Jamaica — SCHOOL — Bd. Educ., 500 Park Ave., New York City, constructing P. S. 131, 172nd St., here, to Willetts Constr. Co., 280 Madison Ave., New York City, $223,171. Noted June 11.

N. J., Swedesboro—CHURCH—St. Joseph Roman Catholic Church, 1 story, basement and gallery, 52 x 97 ft., brick and steel, plain foundation, to Harley Bryan Co., 117 South 20th St., Phila., Pa. Archts. est. $150,000.

Pa., Phila.—SCHOOL—P. S. Monaghan, archt., 1713 Sansom St., 3 story and basement, 63 x 143 ft., stone, plain foundation, 5th and Spencer Sts., to D. W. O'Dea, Greene and Logan Sts. for St. Helena Roman Catholic Church. $190,000. Noted June 11.

Pa., Pittsburgh—CHURCH—E. Fisher Wood & Co., archts., Oliver Ave., general contract 3 story and basement, 70 x 110 ft., stone veneer, Smithfield St. and Strawberry Way, to S. M. Siesel Co., Forbes and Atwood Sts., for German Evangelical Protestant Church, Smithfield St. Archts. est. $600,000. Noted Jan. 8.

Pa., Pittsburgh—SCHOOL and CHAPEL—Church of Nativity, Franklin Rd., general contract 3 story and basement, 55 x 100 ft., brick on hollow tile, Franklin Rd., to E. A. Wehr, Hiland Bldg. Archts. est. $150,000. Noted Mar. 26.

Pa., Reading — HIGH SCHOOL — Bd. Educ., and Superintendent of Buildings, 3 story and basement, 152 x 360 ft., brick and steel, plain foundation, 13th Oley and Palm Sts., to M. Melody & Son, 1322 Race St., $1,026,000; electrical work, to C. McCaul Co., 1713 Sansom St., Phila., $45,-900; plumbing, to Herre Bros., 7th and Emerald Sts., Harrisburg, $61,409; heating and ventilating, to N. Connelly, 1404 North 18th St., Phila., $146,446. Noted June 4.

La., Shreveport—CHURCH—E. F. Neild, archt., Merchants Bldg., 2 story, 120 x 180 ft., concrete, brick and stone, Jordan St., to Garson Bros., Shreveport. Noted June 18.

Mich., Ironwood—CHURCH—E. Brielmaier & Sons, archts., 432 Bway., Milwaukee, Wis., 2 story, 66 x 130 ft., concrete, brick and stone, plain foundation, to Tomlinson & Egan, 322 2nd Ave. E., Ashland, Wis., for St. Ambrose Congregation. Archts. est. $150,000.

Mich., Springwells — SCHOOL — Bd. Educ., 2 story and basement, 20 room, rein.-con., brick and steel, Lois Ave., to F. H. Goddard, 2130 Franklin St., Detroit. Engrs. est. $250,000.

Mo., St. Louis—SCHOOL—St. Teresa's Catholic Parish, c/o J. P. Newman, pastor, general contract 3 story and basement, 80 x 200 ft., rein.-con., brick and stone, Grand Blvd. near North Market St., to Duffner & Stecker Constr. Co., 119 North 7th St.

Ark., Little Rock—SCHOOL—Bd. Educ., general contract Pulaski Heights Ward School, 3 story, rein.-con., brick and stone, to Stewart & McGehee, Kahn Bldg. Noted June 11.

Colo., Fort Collins—GYMNASIUM, etc.—State Agricultural College, 100 x 160 ft. gymnasium, 100 x 220 ft. field house, 36 x 90 ft. swimming pool, and 60 x 113 ft. administration and locker building, brick and steel, general contract, to C. E. Walker Constr. Co., 800 14th St., Denver, $190,395; plumbing and heating, to City Plumbing & Heating Co., Boulder, $28,489.

Calif., Los Angeles — SYNAGOGUE — Sinai Congregation, M. Winkler, rabbi, superstructure 3 story and basement, 120 x 150 ft., brick, 4th St. and New Hampshire Ave., to L. R. Armstrong, 144 Glendale Blvd., $250,000.

Calif., San Francisco—SCHOOL—City and San Francisco Co., general contract Douglas-Everett School, 17th, Sanchez, 16th and Dehhon Sts., to Barrett & Hilp, 918 Harrison St., $241,548. Noted June 11.

Federal Government Work

PROPOSED WORK

D. C., Wash.—Hospital—U. S. Veterans Bureau, Room 791 Arlington Bldg., plans addition to Walter Reed Hospital. $900,000.

BIDS DESIRED

D. C., Wash.—Pipe, etc.—July 1, at office A. L. Flint, genl. purch. officer, Panama Canal, soil and sewer pipe, pipe fittings, etc.

W. Va., Clarksburg—Remodeling—July 7, by Treas. Dept., at office Supervising Archt., Wash., D. C. remodeling post office, here.

N. C., Oteen—Hospital—July 7, by U. S. Veterans Bureau, Wash., D. C., kitchen at hospital, here.

Miss., Vicksburg—Levees—June 29, at office Third Mississippi River Dist., Box 404, about 360,000 cu.yd. levee work.

La., New Orleans—Earthwork—July 10, by U. S. Engineer Office, War Dept., Wash., D. C., 33,000 cu.yd. earthwork at Spur Levee, 2 mi. north of Natchey, Miss.

Tenn., Memphis—Embankment—July 15, by U. S. Engineer Office, War Dept., Wash., D. C., 45,000 cu.yd. earth embankment in Lower St. Francis Levee Dist., here.

Ill., Mount Vernon—Heating System—June 29, by Treas. Dept., at Office Supervising Archt., Wash., D. C., repairs to heating system at port office, here.

S. D., Hot Springs—Hospital—Aug. 4, by U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., hospital buildings and utilities, etc., here. F. T. Hines, dir.; adv. E. N.-R. June 25.

Arizona — Road — June 30, by E. D. Wheeler, dist. engr. Bureau Pub. Rds., 242 West Washington St., Phoenix, improving Flagstaff-Angel Natl. Forest Rd., Coconino Co.

BIDS RECEIVED

N. Y., Brooklyn—Paving—Spec. 5115—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving, etc., at Naval Hospital, here, from Estate of J. Bauer, 288 Wallabout St., (1) $16,769 (2) $400. Noted June 4.

N. J., Lakehurst—Garage—Spec. 5124—Bureau Yards & Docks, Navy Dept., Wash., D. C., reconstructing steel garage, here, from Maryland Metal Building Co., Race St., Baltimore, Md., $8,885. Noted June 11.

Pa., Phila.—Paving—Spec. 5109—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving at Naval Home, here, from Curtis Bros., (1) $4,834. Noted June 4.

Pa., Phila.—Remodeling—Spec. 5123—Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling building, here, from W. Mayor Co., 7 South Dearborn St., Chicago, Ill., (1) $29,274 (2) $4,000. Noted June 4.

Md., Annapolis—Waterworks—Spec. 5119—Bureau Yards & Docks, Navy Dept., Wash., D. C., 80,000 gal. rein.-con. reservoir, piping, etc., here, from McCay & Kirkland, 638 Equitable Bldg., Baltimore, $3,870. Noted June 11.

D. C., Wash.—Water System—Spec. 5104—Bureau Yards & Docks, Navy Dept., additions to water supply system at Naval Observatory, from Pittsburg-Des Moines Steel Co., Virginia R.R. and Power Bldg., Richmond, Va., (1) $13,152 (2) add $333. Noted June 4.

Va., Quantico—Dredging—Spec. 5125—Bureau Yards & Docks, Navy Dept., Wash., D. C., June 22, dredging at Marine Barracks, here, from McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., $0.489. Noted June 4.

Va., Quantico — Coal Bins, etc. — Spec. 5085—Bureau Yards & Docks, Navy Dept., Wash., D. C., June 22, elevated timber coal storage bins, railroad trestles, etc., here, from Cranford Paving Co., 2620 East Northwest St., Wash., D. C., $37,744. Noted June 11.

S. C., Parris Island—Boilers—Spec. 5118—Bureau Yards & Docks, Navy Dept., Wash., D. C., installing boilers, etc., at Marine Barracks, here, from Newport Contg. & Eng. Co., Newport News, Va., (1) $29,381 (2) add $4,800. Noted June 4.

S. C., Paris Island—Power Plant Equipment—Spec. 5063—Bureau Yards & Docks, Navy Dept., Wash., D. C., power plant equipment at Marine Barracks, here, from Austin Eng. Co., 217 Bway., New York City, $31,718.

Fla., Pensacola—Storage—Spec. 5083—Bureau Yards & Docks, Navy Dept., Wash., D. C., June 22, two 99,000 gal. steel tanks, pumphouse, piping, etc., at Naval Air Station, here, from C. H. Turner Co., Pensacola, $27,584. Noted June 11.

Miss., Holly Springs—Post Office—Treas. Dept. Office Supervising Archt., Wash., D. C., post office, here, from F. R. Comb, 2113 Chicago Ave., Minneapolis, Minn., $36,-400. Noted May 28.

La., New Orleans — Quarters — Treas. Dept. at office Supervising Archt., Wash., D. C., quarters and isolation building, at Marine Hospital, here, from H. W. Bond & Bro., New Orleans, $6,905.

Wis., Madison—City, high service reservoir for additional water supply, from O'Dea & Schafer, Genl. Del., $123,000. Noted Mar. 5.

Wis., Milwaukee—Dept. Pub. Wks., June 8, 9,814 ft. 6 in., 2,465 ft. 8 in., and 2,316 ft. 12 in. c.i. mains (city to furnish pipe), in various streets, from H. O. Schaefer & Sons, 1149 East Mason St., Green Bay, $13,234. Noted June 4.

Mont., Missoula—POST OFFICE—Treas. Dept., Office Supervising Archt., Wash., D. C., extensions to post office, here, from C. H. Elliott, Missoula, $3,557. Noted May 28.

Okla., Tahlequah—School—C. H. Bruke, comr. Indian Affairs, Wash., D. C., addition to Sequoyah Orphan Training School, here, from W. L. Garner, Tahlequah, $15,226.

Colorado—Roads—Bureau Pub. Rds., 301 Custom House Bldg., Denver, grading 2.92 mi. Independence Pass Natl. Forest Rd., Pitkin Co., and 4.97 mi. Fremont Pass Natl. Forest Rd., Summit Co., from Stamey-Mackey Constr. Co., Colorado Springs, $38,-142 and $59,674 respectively; 4.36 mi. Tennessee Pass Natl. Forest Rd., Eagle Co., from San Luis Valley Constr. Co., Sanford, $42,849.

Ariz., Whipple Barracks — Cable, etc. — U. S. Veterans Bureau, Wash., D. C., cables and wiring for automatic telephone system, at Hospital 50, here, from Gans Bros., 141 South Main St., Los Angles, Calif., $7,289, installing automatic telephone system, from North Electric Mfg. Co., Galion, O., $8,190, alternate $8,095. Noted May 21.

Ariz., Whipple Barracks — Fire Alarm System—U. S. Veterans Bureau, Wash., D. C., fire alarm system at Hospital 50,

Federal Government Work (Continued)

here, from D. C. Barnett, St. Louis, Mo., $7,050. Noted May 21.

California—Roads—Bureau Pub. Rds., 9 Main St., San Francisco, crushed rock surfacing 6.86 mi. Donner Pass and Donner Pass Extensions, Tahoe Natl. Forest, Placer and Nevada Counties, from P. L. Burr, 549 Market St., San Francisco, $63,927.

CONTRACTS AWARDED

Me., Ellsworth—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office and custom house, retaining wall, etc., here, to Green & Wilson, 74 Main St., Waterville, $10,790. Noted June 18.

Mass., Amherst — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office, here, to A. M. Lundberg, Federal Reserve Bank Bldg., St. Louis, Mo., $61,770. Noted Apr. 23.

N. Y., Brooklyn—Paving—Spec. 5115—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving, etc. at Naval Hospital, here, to Estate of J. Bauer, 388 Wallabout St., $16,769 (90 days). Noted June 4.

N. J., Vineland—POST OFFICE—Treas. Dept., Office Supervising Archt., Wash., D. C., 60 x 68 ft. post office, here, to W. L. Morrison Constr. Co., $51,600. Noted May 21.

Pa., Phila.—Remodeling—Spec. 5123—Bureau Yards & Docks Navy Dept., Wash., D. C., remodeling Building 133, here, to Newport Contrg. & Eng. Co., Newport News, Va., $29,381 (150 days). Noted June 4.

Pa., Pittsburgh — Remodeling — Treas. Dept. Wash., D. C., remodeling post office, here to Unkefer Bros. Constr. Co., Box 220, Cleveland, O., $5,126. Noted June 18.

Del., Wilmington—Bridge—U. S. Engineer Office, War Dept., Wash., D. C., substructure for new cut-off bridge, Chesapeake and Delaware Canal, to Dravo Contg. Co., Frick Bldg., Pittsburgh, Pa., $103,500.

D. C., Wash.—Entrance, etc.—Office Pub. Buildings & Grounds, constructing ornamental entrance and 375 ft. wall at Meridian Hill Park, to C. Tompkins, 1612 Park Rd., $21,110 and $17,236 respectively.

S. C., Parris Island — Monument — Spec. 5114—Bureau Yards & Docks, Navy Dept., Wash., D. C., monument at Fort Charles, here, to McNeel Marble Co., Marietta, Ga., $5,350 (150 days). Noted June 4.

Fla., Lake City—Hospital—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., mess hall, kitchen and garage, at State Hospital 63, here, to B. L. Lucas Co., Raeford, N. C., $103,495. Noted June 4.

Mich., Camp Custer—Copper Roofs—U. S. Veterans Bureau, Room 792 Arlington Bldg., Wash., D. C., copper roofs on Hospital, here, to Central Sheet Metal & Roofing Co., Battle Creek, $3,980.

Tex., Galveston—Topsoil—U. S. Engineer Office, War Dept., Wash., D. C., 19,000 cu.yd. mainland top soil, here, to W. E. Becker, Houston, $34,770.

Oklahoma—Road—G. E. Goodwin, ch. engr. Dept. Interior, Natl. Park Service, improving, widening and surfacing roads of Platt Natl. Park, in Sulphur, to Johnson Bros., Ardmore, $32,000.

Colorado—Road—Bureau Pub. Rds., Custom House Bldg., grading 5.18 mi. Sugar Creek-West Creek Natl. Forest Rd., to Shields & Kyle, Pagosa Springs, $43,910; 3.79 mi. Echo Lake-Chicago Creek Project, Clear Creek Co., to Stamey-Mackey Constr. Co., Hutchison, Kan., $61,892.

Unclassified

PROPOSED WORK

Stadium — Buffalo, N. Y. — Canisus College, Main and Jefferson Sts., plans stadium, Main St. $300,000. Engineer and architect not selected.

Boardwalk—Seaside Heights, N. J.—Plans widening boardwalk 20 ft. $52,500. Sherman & Sleeper, 501 Cooper St., Camden, engrs.

Grade Crossings—Phila., Pa.—City and Phila. & Reading R.R., Reading Terminal, take bids about Aug. 1, removing grade crossings, Wissahicken, Manayunk section, Phila.-Norristown branch of railroad. $2,900,000. Pub. Wks., Bureau Engineering, engrs.

Stadium—Phila., Pa.—Day & Klauder, archts., Franklin Bank Bldg., preparing revised plans rein.-con., double decking present stadium, 33rd and Spruce Sts., for University of Pennsylvania. Former bids rejected. Noted June 11.

Mooring Mast — Atlanta, Ga. — Plans mooring mast for dirigibles at flying field. $50,000.

Sea Wall—Mobile, Ala.—City Comn. received estimates from Hedrick, Smith & Frost, engrs., Portland, Ore., for 14 ft. revetment and concrete roadway along route of Old Bay Shell Rd. $116,160.

Swimming Pool, etc.—Joplin, Mo.—See "Buildings—Commercial."

Swimming Pool—Kansas City, Mo.—See "Buildings—Educational, Religious."

Stadium — St. Louis, Mo. — Washington University, Forsythe and Skinker Blvd., soon takes bids 2 story and basement, rein.-con., brick and stone athletic field house with running track and courts, etc., 8,000 seating capacity, on campus. $300,000.

Transmission Line—Oklahoma—Town of Asher making preliminary plans distribution system in Asher, also and electric transmission line from Asher to Ada. $30,000. Engineer not selected.

Transmission Line—Oklahoma—Town of Bessie making preliminary plans step down station and distribution system in Bessie, also and 12 mi. electric transmission line from Bessie to Clinton. $25,000. I. Loewen, mayor. Engineer not announced.

Power Plant — Enid, Okla. — Oklahoma Laundry Co. making preliminary plans new diesel engine power plant. $30,000. J. Clover, Enid, engr.

Rock and Gravel Plant — Bakersfield, Calif.—Bakersfield Rock & Gravel Co., M. C. Macomber, pres., Taft, plans rock and gravel plant, here. $100,000.

Ice Skating Rink—Los Angeles, Calif.—See "Buildings—Commercial."

Athletic Field—San Francisco, Calif.—City and San Francisco Co. had preliminary plans prepared athletic field for High School of Commerce, Van Ness Ave. $100,000. J. Reid, Jr., city archt.

Parks—Whittier, Calif.—Plans election $125,000 bonds, park improvements.

Power Development—Campbellford, Ont.—Canadian Paperboard Co., making preliminary plans hydro-electric development in connection with plant, incl. power house, pipe line, turbines, generators, etc. $150,000. Kerry & Chace, Ltd., Confederation Life Bldg., Toronto, engrs.

Ice Rink—Toronto, Ont.—Ravina Rink Co., 50 Rowland Ave., having plans prepared 1 and 2 story ice rink, rein.-con., brick and steel, Rowland Ave. $150,000. A. W. Connor & Co., Metropolitan Bldg., engrs.

BIDS DESIRED

Pier and Bulkhead — New York, N. Y. — July 1, by M. Cosgrove, comr. Docks, Pier A, Battery Pl., North River, Manhattan, constructing Pier New 35 and Bulkhead, East River, between Rutgers Slip and Clinton St., East River, Contr. 1848, Manhattan Boro.

Guard Rail—South Dakota—June 30, by State Hy. Comn., Pierre, wood, wire link and cable guard rail. $20,000. T. Soleglad, acting highway engr.

Breakwater and Wharf—Little Judique Ponds, N. S. — July 3, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., breakwater and wharf, here. $10,800.

Bank Protection—Baie St. Paul, Que.—June 30, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., bank protection in River du Gouffre, here. $25,000.

Wharf—Sorel, Que.—June 30, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing 287.5 ft. high level wharf, here. $85,000.

Electric Capstans, etc.—Napier, New Zealand—Aug. 10, by Harbor Bd., 2 electric capstans, 12 fairleads, and one electric portable crane.

BIDS RECEIVED

Subway—New York, N. Y.—Bd. Transportation, 49 Lafayette St., June 19, constructing Route 78, Sect. 2-A along Central Park West and 8th Ave. from 101st to 111th Sts., from Rosenthal Eng. & Contg. Co., Prospect Ave. and 189th St., $5,123,000. Noted June 16.

Dock, etc. — Baton Rouge, La. — Comn. Council, June 11, dock and approaches, from Raymond Concrete Pile Co., Healey Bldg., Atlanta, Ga., $221,000; barge, from Midland Barge Co., Midland, Pa., $64,000; conveyors, from Link Belt Co., New Orleans, La., $39,000. Noted May 21.

Grandstand — West Allis, Wis. — J. D. Jones, Madison, comr. Agriculture, Madison, June 9, rein.-con. grandstand addition, at State Fair Park, here, from Dreyer Constr. Co., 1008 6th St., Milwaukee, $100,936. Noted May 28.

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Main St. between Florence and Manchester Aves., from Electric Corp., 726 South Olive St., Los Angeles, $34,928.

CONTRACTS AWARDED

Heating and Ventilating — Bridgewater, Mass.—Dept. Educ., State House, Boston, heating and ventilating in Normal and Training Schools, to Hobart & Farrell, 36 Court St., Brockton, $40,000. Noted June 18.

Electrical and Refrigerating Equipment—New York, N. Y.—E. J. O'Malley, comr. Pub. Markets, Municipal Bldg., June 16, complete mechanical, electrical and refrigerating equipment for Bronx Municipal Market, Exterior and East 151st Sts., to Shipley Constr. & Supply Co., 42nd St. and 2nd Ave., Brooklyn, (A) $718,950. Noted May 21.

Station Finish—New York, N. Y.—Bd. Transportation, 49 Lafayette St., station finish for Main St. station, Route 52, Sect. 3, Flushing Sect., to M. Del Balso, 600 East 221st St., $244,000. Noted June 18.

Subway—New York, N. Y.—Bd. Transportation, 49 Lafayette St., constructing Route 78, Sect. 2, under Central Park West from 89th St. to 100th Sts., to T. A. Gillespie Co., 7 Dey St., $3,997,000. Noted June 18.

Swimming Pool—Erie, Pa.—See "Buildings—Commercial."

Dock Extensions, etc.—Tampa, Fla.—Mallory & Clyde Steamship Co., Mallory Docks, enlarging terminal facilities, incl. extending warehouses, dockage and freight spaces, to G. N. Hassler, Jacksonville, $150,000. Noted Apr. 2.

Wall—Shreveport, La.—Rein.-con. retaining wall on Dixie-Overland Blvd., to Phillips & Rudy, Shreveport. Noted June 11.

Street Lighting System—West Allis, Wis.—A. Wincher, supt. Bd. Pub. Wks., ornamental street lighting system on Greenfield and National Aves., to Donovan Constr. Co., 417 Commercial Bldg., St. Paul, Minn., $43,700. Noted Apr. 2.

Swimming Pool—Ft. Dodge, Ia.—Exposition Park & Amusement Co., general contract 80 x 120 ft., various depths, rein.-con. and brick swimming pool, to M. J. Brosz, 1708 North 5th St., Ft. Dodge. Engrs. est. $25,000.

Culverts—Guthrie Center, Ia.—Guthrie Co., 12 rein.-con. box culverts in various parts of county, to H. A. Rhodes Co., Guthrie Center, $28,500.

Electric Distribution System—Winthrop, Minn.—A. L. Malm, city clk., electric distribution system, street lighting system, to Hutchinson Electric Co., Hutchinson, $17,500; and pumping equipment, etc., to F. T. Hildred & Co., 108 East 3rd St., St. Paul, approximately $6,000. Noted May 14.

Stadium—Omaha, Neb.—Creighton University, 25th and California Sts., rein.-con. and brick stadium, to C. Zeigler, 4301 Leavenworth St. Archts. est. $250,000. Noted Apr. 16.

Swimming Pool — St. Louis, Mo. — See "Buildings—Commercial."

Swimming Pool, Roof Garden, etc.—St. Louis, Mo.—See "Buildings—Commercial."

Diesel Engine—Cherokee, Okla.—City, new 300 hp. diesel oil engine generating unit for electric light plant, to McIntosh Seymour & Co., Auburn, N. Y., $33,391. Engrs. est. $35,000. Noted June 11.

Swimming Pool—Port Collins, Colo.—See "Buildings—Educational, Religious."

Crusher Rolls—Inspiration, Ariz.—Purchasing Agent Anaconda Copper Co., 25 Bway., New York City, N. Y., four 72 in. crusher rolls for new leaching plant, here, to Traylor Eng. & Mfg. Co., Allentown, Pa., for Inspiration Consolidated Copper Co. Noted May 14.

Lighting System — Culver City, Calif. — Ornamental street lighting system in Poinsetta Court, Kruger St., etc., to Electric Lighting Supply Co., 214 West 3 d St., Los Angeles, $26,250.

Swimming Pool—Pasadena, Calif.—See "Buildings—Commercial."

Materials

BIDS DESIRED

Sand, etc.—Illinois—June 29, by Dept. Pub. Wks. & Buildings, Div. of Purchases & Supplies, Capital Bldg., Springfield, 2,600 tons sand, 6,300 tons road gravel, 3,750 tons gravel or stone, etc. $20,000. F. F. Sheets, State House, engr.

BIDS RECEIVED

Asphaltic Oil, etc.—Trenton, N. J.—State Hy. Dept., June 15, 137,385 gal. asphaltic oil, from T. Tobish, Mechanic Bldg., $8,243; 332,210 gal. lignin binder, from M. R. Young, 34 Fisher Pl., $36,664. Noted June 4.

CONTRACTS AWARDED

Ties and Timber—New York, N. Y.—Bd. Transportation, 49 Lafayette St., ties and timber for Westchester Yard, to A. R. Sax Lumber Co., 143 West 33rd St., $38,282. Noted June 4.

Paving Blocks—Minneapolis, Minn.—F. S. Gram, city purch. agt., 2,870 sq.yd. granite paving blocks, to Wisconsin Granite Co., 105 West Monroe St., Chicago, Ill., at $2.99 per sq.yd.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: July 1.

Road Work

STATE OF RHODE ISLAND
STATE BOARD OF PUBLIC ROADS
Providence, R. I.

Sealed proposals for the reconstruction, under the provisions of the Federal Highway Act, of the following section of State highway will be received by the State Board of Public Roads at its office, State House, Providence, R. I., until 12 o'clock noon, Daylight Saving Time (11.00 a.m. Eastern Standard Time), Wednesday, July 1, 1925, at which time they will be opened and read in public:

Contract No. 2507—Federal Aid Project No. 25. North Kingstown and South Kingstown, Tower Hill Road, County of Washington.

Beginning at Allenton on the Tower Hill Road, so called, at the end of Federal Aid Project No. 9 and extending southerly on said road to Dale Carlia Corner.

7.69 miles of Reinforced Cement Concrete 18' wide, 8" thick.

Bids on the above contract must be made upon blank forms to be furnished by the Board. No bids will be accepted unless accompanied by a certified check for the sum of $200.00 payable to the State of Rhode Island.

The Board reserves the right to reject any or all bids and to give preference to towns or cities in accordance with Section 5 of Chapter 97 of General Laws of Rhode Island, Revision of 1923.

Plans may be examined and specifications and bidding blanks may be obtained at the office of the State Board of Public Roads, Room 10, State House, Providence, R. I., on and after Wednesday, June 17, 1925, every weekday (except Saturday and holidays), between the hours of 9 a.m. and 5 p.m., Daylight Saving Time (8 a.m. and 4 p.m., Eastern Standard Time), and on Saturdays from 9 a.m. to 12 m., Daylight Saving Time.

State Board of Public Roads.
ABRAM L. ATWOOD.
BENJAMIN F. ROBINSON.
FRANK COLE.
JOHN W. HANLEY.
F. A. H. BODINGTON.

Bids: July 2.

Furnishing and Erecting Standpipe

Seaside Heights, N. J.,
June 18, 1925.

Sealed proposals will be received by the Borough of Seaside Heights, New Jersey, at the Fire House, Seaside Heights, New Jersey, until 8 o'clock p.m., Daylight Saving Time, Thursday, July 2, 1925, for furnishing and erecting a Standpipe, 20 feet in diameter x 120 feet high on foundations to be built by the Borough.

A certified check for two per cent (2%) of the amount of the bid must accompany each proposal.

The Borough reserves the right to reject any or all bids or to waive any informality in any bid if it appears to the best interest of the Borough so to do.

Plans and Specifications may be obtained from the Borough Clerk.

D. R. RICHMOND,
Borough Clerk.

SHERMAN & SLEEPER, Engineers,
501 Cooper Street,
Camden, New Jersey.

OFFICIAL PROPOSALS

Bids: July 6.

Road Work

Hopewell Township, N. J.

Notice is hereby given that sealed bids will be received by Hopewell Township Committee for the construction of Pennington-Princeton Road in the Township of Hopewell, in the County of Mercer, with a Bituminous Penetration Macadam Pavement; estimated amount of pavement required is 10,736 square yards for one mile and 23,522 square yards for two and two-tenths miles, and opened and read in public at the office of the Hopewell Township Committee at J. W. Hart's Hall, one mile north of Pennington on the Pennington-Hopewell Road at 7 P.M., Standard Time, July 6, 1925.

Drawings, specifications and form of bid, contract and bond for proposed work, prepared by Sincerbeaux and Moore, Engineers, and approved by the State Highway Commission and Board of Freeholders, have been filed in the office of the said Engineers at Trenton and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the Engineers on proper notice and payment of a deposit of $10.00. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and name of the road on the outside, addressed to Hopewell Township Committee and must be accompanied by a Guaranty of Surety and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to the Engineers.

By order of Hopewell Township Committee.

(Signed) DAVID M. VOORHEES,
Clerk.

Bids July 6.

Storm Sewers

Plainfield, N. J.

Proposals will be received by the Common Council of the City of Plainfield, N. J., at the City Hall on Monday, July 6, 1925, for constructing storm sewers in various streets in said City.

Approximate estimate of quantities.
7,000 lin.ft. storm sewer, 15 in. to 36 in.
1,925 lin.ft. 12-in. inlet connections.
27 manholes.
91 inlets.
Also various minor items.

Bids received Monday, July 6, 1925, at 8:30 o'clock p.m. (Daylight Saving Time).

Certified check required $2,500.

Bond required 100 per cent of cost of work.

Plans, specifications and forms of proposal may be obtained at the office of the City Engineer, City Hall, Plainfield, New Jersey.

The Common Council reserves the right to reject any or all bids, to waive defects or informalities in bids, or accept any bid as it shall deem for the best interest of the City, and bids are only received subject to this condition.

The formal legal advertisement for this work appears in the Plainfield Courier-News.

ALEXANDER W. VARS,
City Engineer.

Dated: June 25, 1925.

OFFICIAL PROPOSALS

Bids: July 15.

Philadelphia Approach, Grading, Paving and Other Work, Delaware Avenue to Fourth Street

DELAWARE RIVER BRIDGE
CONTRACT NO. 23
Philadelphia, Pa.

Sealed proposals will be received by the Delaware River Bridge Joint Commission at Room 806 Widener Building, Philadelphia, Pa., until 1.30 o'clock p.m., Eastern Standard Time, July 15, 1925, when they will be publicly opened and read, for Contract No. 23 for grading, paving and other work along the Philadelphia approach between Delaware Avenue and Fourth Street and work in adjacent streets for the bridge over the Delaware River connecting the Cities of Philadelphia and Camden.

The work will include the grading of the site and of adjacent streets, the construction of sewers and inlets, the paving and repaving of roadways and sidewalks, alterations to the Frankford Elevated Railway structure and other work. The contract time for the work is eleven months. Unit price bids are asked with lump sum bids for certain portions of the work.

Copies of the contract and contract drawings may be obtained at the office of the Joint Commission upon deposit of Twenty-Five Dollars, which deposit will be returned upon the receipt of bid or the return in good condition of the contract books.

Each proposal must be accompanied by a certified check for Twenty-Five Thousand Dollars ($25,000) payable to the Delaware River Bridge Joint Commission, and Surety's consent must be shown. The bidder or bidders to whom the contract is awarded will be required to give bond in the sum of 50 per cent of the amount of the contract.

The right is reserved to reject any or all bids.

Delaware River Bridge Joint Commission.
GIFFORD PINCHOT,
Chairman.
JOSEPH K. COSTELLO,
Secretary.

Bids: July 6.

Street Improvement

White Plains, N. Y., June 9, 1925.

Sealed bids or proposals for the improvement of South Division Street, County Road No. 24, from First Street northeasterly to the Village line, with reinforced concrete pavement a distance of 1.31 miles in the Village of Peekskill, Westchester County, New York, will be received at the office of the Clerk of the Board of Supervisors, Court House, White Plains, N. Y., until 10 A.M., July 6th, 1925 (Daylight Saving Time).

Specifications, proposal sheets and all information relative to same may be procured at the office of the County Superintendent of Highways, Court House, White Plains, N. Y., upon making a deposit of ten dollars ($10.00), which will be refunded upon return of the plans in good condition within thirty (30) days of reception of bids.

BOARD OF SUPERVISORS
FRED L. MERRITT, Clerk.

OFFICIAL PROPOSALS

Bids: July 6.

Linoleum

GRASSLANDS HOSPITAL
White Plains, N. Y.

Proposals will be received for the furnishing and laying of linoleum required for the Nurses' Home and Employees' Dormitory in connection with the County Hospital in the Town of Mt. Pleasant, County of Westchester and State of New York and known as Grasslands Hospital.

Separate sealed bids or proposals will be received at the office of the Clerk of the Board of Supervisors at the Court House, White Plains, New York, until eleven A.M. (Daylight Saving Time), July 6th, 1925.

Specifications, drawings, and all information relative to the same may be procured either from Walker & Gillette, Architects, or from Fred L. Merritt, Clerk of the Board of Supervisors, Court House, White Plains, New York.

Each separate bid or proposal must be accompanied by a certified check in the sum of three per cent of the amount bid, made payable to the Treasurer of the County of Westchester, same to be forfeited to the County of Westchester as liquidated damages in the case of failure on the part of the successful bidder to enter into a contract for the execution of the work awarded to him and to furnish a satisfactory bond within five days after notice of such award.

Each successful bidder will be required to execute the contract and furnish a surety company bond in the sum equal to fifty per cent of the amount of the contract awarded to him, guaranteeing the faithful performance of the work, said contract and the bond to be in the form required by the County Attorney.

All bidders must submit their bids in the form of bid accompanying the drawings and specifications and in the manner indicated therein.

The Board of Supervisors reserves the right to reject any and all bids or to accept any proposal which it may deem for the best interest of the County of Westchester.

BOARD OF SUPERVISORS OF
WESTCHESTER COUNTY
FRED L. MERRITT, Clerk.

Bids: June 26.

Schenectady-Scotia Bridge (Fourth Contract)

STATE OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
BUREAU OF CANALS
Albany, N. Y.
May 27, 1925.

Sealed proposals will be received by the undersigned at his office, No. 55 Lancaster Street, Albany, N. Y., until twelve o'clock noon (daylight saving time), of Friday, June 26, 1925, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and amendatory and supplemental laws, and Chapter 735, Laws of 1917, Chapter 634, Laws of 1919, Chapter 650, Laws of 1921, Chapter 436, Laws of 1922, and Chapter 688, Laws of 1923, as follows:

SCHENECTADY-SCOTIA BRIDGE
(Fourth Contract)

For constructing the pavements and completing the approaches of a bridge across the Mohawk River between the city of Schenectady and the village of Scotia, New York.

Sheets 1 to 8, inclusive.

Plans may be seen, and detailed specifications, engineers' estimates of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Bureau of Canals, Albany, N. Y.; at the office of the Division Engineer, Department of Public Works, at Utica, Syracuse, Rochester and Buffalo; and at the Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate of twenty-five cents (25c.) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank, in good credit within the State, and payable at sight to the Commissioner of Canals and Waterways for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Commissioner of Canals and Waterways.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Commissioner of Canals and Waterways, which sum shall not be less than fifty per centum (50 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work, according to the contract price will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Bureau of Canals, State Department of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Commissioner of Canals and Waterways of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject any or all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

ROYAL K. FULLER,
Commissioner of Canals and Waterways.

Bids: July 2.

Concrete Foundation for Standpipe

Seaside Heights, N. J.,
June 18, 1925.

Sealed proposals will be received by the Borough of Seaside Heights, New Jersey, at the Fire House, Seaside Heights, New Jersey, until 8 o'clock p.m., Daylight Saving Time, Thursday, July 2, 1925, for building a concrete foundation for a Standpipe 20 feet x 120 feet.

Plans and Specifications may be obtained from the Borough Clerk.

A certified check for two per cent (2%) of the amount of the bid must accompany each proposal.

The Borough reserves the right to reject any or all bids or to waive any informality in any bid if it appears to the best interest of the Borough so to do.

D. R. RICHMOND,
Borough Clerk.

SHERMAN & SLEEPER, Engineers,
501 Cooper Street,
Camden, New Jersey.

Bids: July 7.

Highway Work

Harrisburg, Pa.

Pennsylvania Department of Highways, Harrisburg, Pennsylvania. Bids will be received July 7, 1925, for construction of twelve projects, totaling approximately thirty-three miles, construction to be either bituminous surface on a concrete base or reinforced concrete. Projects situated in the following counties:

Armstrong, Indiana, Blair, Cambria, Bucks, Butler, Chester, Erie, Huntingdon, Lehigh, Lycoming, Montgomery, Washington.

Full particulars upon application to P. D. Wright, Secretary of Highways, Harrisburg, Pennsylvania.

Bids: July 2.

Bridge Re-construction

North Adams, Mass.

Notice is hereby given that sealed proposals will be received by the Commissioner of Public Works, in the City Hall, North Adams, Massachusetts, for the Reconstruction of the Holden Street Bridge, on the 2nd of July, 1925, at Two o'clock Advanced Standard Time, which is One o'clock Eastern Standard time.

The Bridge has an overall length of about 66 feet, and a width of 37 feet. It consists of a steel plate girder encased in reinforced concrete, and contains approximately:

145,000 pounds of Structural Steel;
24,000 pounds of Steel Rods;
372 Cubic Yards of Concrete;
1,044 Square Feet of Concrete Sidewalk;
260 Cubic Yards of Excavation.

Maps, plans and specifications may be seen and obtained, and proposal forms obtained on and after Tuesday, June 16, 1925, at the office of the Commissioner of Public Works, in the City of North Adams, Massachusetts; and at the office of the Consulting Engineer, G. Saxton Thompson, Room 7, 257 Broadway, Troy, New York, on the Deposit of Five Dollars ($5.00), which amount will be refunded upon the return of the plans and specifications in good condition.

The special attention of bidders is called to the "Information to Contractors" and "Information to Bidders" in the specifications.

Each proposal must be accompanied by cash, draft, or certified check, payable to the order of the Treasurer of the City of North Adams, for an amount equal to at least five (5) per cent of the amount of the proposal. In case this proposal shall be accepted by the Commissioner of Public Works, North Adams, Massachusetts, and the bidder shall fail to execute the contract and in all respects comply with all local ordinances or laws, then the Commissioner of Public Works may cash said check and deduct from the proceeds thereof or the said sum of money, an amount equivalent to the difference between the price of the bidder's proposal and the amount of the final contract; and upon further understanding that the said certified check or voucher will be returned upon the rejection of the bid.

The successful bidder will be required to execute a bond in an amount equal to the contract price with sufficient sureties, to be approved by the Commissioner of Public Works of the City of North Adams, and to execute the contract within ten (10) days after the award.

The City of North Adams reserves the right to reject any or all bids.

Subject to approval of Department of Highways.

EOLUS R. DOBLE,
Commissioner of Public Works
North Adams, Massachusetts.
June 10, 1925.

Bids: June 29.

Sewers, Manholes, etc.

Butler, N. J.

The Council of the Borough of Butler, N. J., will receive at its meeting, to be held on the 29th day of June, 1925, at 8 p.m. (daylight saving time), sealed proposals for furnishing materials and doing all other work required for the construction of sewers, manholes and appurtenances on Bartholdi Avenue.

The work includes approximately 3,375 feet of 8-inch vitrified tile sewer and 14 manholes.

Plans may be seen and specifications and forms of proposals obtained at the office of the Borough Clerk at Butler, N. J., or at the office of Clyde Potts, 30 Church Street, New York City.

Plans and specifications may be taken away upon the payment of five dollars ($5.00), the same to be returned if the plans are returned within twenty (20) days, in good condition.

Each bid must be accompanied by a certified check for not less than 10% of the amount of the bid, payable to the order of the Borough of Butler, N. J.

The Borough Council reserves the right to reject any and all proposals and to waive any informality in the proposals received, and to accept any proposal which they deem to be most favorable to the interests of the Borough.

JOHN F. BORMUTH,
Borough Clerk.

OFFICIAL PROPOSALS

Bids: July 1.

Road Work

STATE OF RHODE ISLAND
STATE BOARD OF PUBLIC ROADS
Providence, R. I.

Sealed proposals for the reconstruction of the following section of State highway will be received by the State Board of Public Roads at its office, State House, Providence, R. I., until 12 o'clock noon, Daylight Saving Time (11:00 A.M., Eastern Standard Time) on Wednesday, July 1, 1925, at which time they will be opened and read in public:

Contract No. 2508
Middletown-Portsmouth West Main Road
Newport County

Beginning at Two-Mile Corner, so-called, on the West Main Road and extending northerly on said road for 2.91 miles approx.

2.91 miles Bituminous Macadam (Penetration Method) 18 ft. wide
Variable thickness. Trap Rock.

Bids on the above contract must be made upon blank forms to be furnished by the Board. No bids will be accepted unless accompanied by a certified check for the sum of $200.00 payable to the State of Rhode Island.

The Board reserves the right to reject any or all bids and to give preference to towns or cities in accordance with Section 5 of Chapter 97 of the General Laws of Rhode Island, Revision of 1923.

Plans may be examined and specifications and bidding blanks may be obtained at the office of the State Board of Public Roads, Room 10, State House, Providence, R. I., on and after Wednesday, June 17, 1925, every weekday (except Saturday and holidays) between the hours of 9 A.M. and 5 P.M., Daylight Saving Time (8 A.M. and 4 P.M., Eastern Standard Time) and on Saturdays from 9 A.M. to 12 M., Daylight Saving Time.

STATE BOARD OF PUBLIC ROADS
ABRAM L. ATWOOD,
BENJAMIN F. ROBINSON,
FRANK COLE,
JOHN W. HANLEY,
F. A. H. BODINGTON,

Bids: July 7.

Road Work

Dade City, Fla.
June 8, 1925.

Sealed proposals will be received by the Board of County Commissioners, Pasco County, Florida, until 12 o'clock Noon, on July 7th, 1925, for the improvement of the following Projects, to wit:

Project No. 1.—The road from Trilby north to the Hernando County line. Approximately 1 mile. Bituminous surface on rock base 15 feet wide.

Project No. 2.—The road from San Antonio south through Wesley Chapel connecting with Road No. 7, Gulf Special District, approximately 1 mile east of State road No. 5. Distance approximately 18 miles. Bituminous surface on rock base 15 feet wide.

Project No. 3.—Road from Zephyrhills west to road hereinbefore mentioned as Project No. 2, near Wesley Chapel. Distance approximately 10 miles, bituminous surface on rock base, 15 feet wide.

Project No. 4.—A road from Port Richey to Hudson. Distance approximately 8 miles. Bituminous surface on rock base, 15 feet wide.

Project No. 5.—A road starting from a point about 4 miles west of Zephyrhills as road mentioned in Project No. 2, and running south to the Hillsborough County line, 4 miles approximately is the distance. Bituminous surface on rock base, 15 feet wide.

Project No. 7.—Concrete curbing over Sumner Hill on Jessamine Drive. Distance approximately 2,000 feet.

Project No. 8.—The road from Odessa east connecting with Project No. 2, 1 mile east of State road No. 5. Approximately 9½ miles; 8½ miles of bituminous surface on rock base 9 feet wide and 1 mile of bituminous surface on rock base, 15 feet wide.

Project No. 9.—The road from New Port Richey to Moon Lake and connecting with Pasco Road. Distance approximatley 12 miles. Bituminous surface on rock base, 9 feet wide.

Project No. 10.—A road from the north end of the National Highway near Lacoochee in an easterly direction to Slaughter. Distance approximately 6 miles. Drained and graded 18 feet wide.

Project No. 11.—St. Joseph road from a point on Jessamine Drive ¼ mile west of Dade City to St. Joseph. Distance approximately 7 miles, bituminous surface on rock base, 15 feet wide.

Project No. 12.—The completion of road No. 6, Gulf Special District. Distance approximately 2 miles, bituminous surface on rock base, 9 feet wide.

Project No. 13.—The completion of road No. 4 Gulf Special District. Distance approximately 1½ miles, bituminous surface on rock base, 9 feet wide.

Project No. 14.—The completion of road No. 3, Gulf Special District. Distance approximately 1 mile. Bituminous surface on rock base, 9 feet wide.

Project No. 15.—A road beginning in Trilby where National Highway turns east towards Lacoochee and running thence westerly for a distance approximately ½ mile. Bitminous surface on rock base, 15 feet wide.

Project No. 16.—A road running northeast and southwest through Ehren, connecting Pasco Road with State Road No. 5. Distance approximately 6 miles. Bituminous surface on rock base, 15 feet wide.

Project No. 17.—A road starting from the end of the rock road in Dade City; running easterly to Lanier Bridge across the Withlacoochee River. Distance approximately 4½ miles. Bituminous surface on rock base, 15 feet wide.

Project No. 18.—A road starting from Pasco Road at or near the southwest corporate limits of Dade City; running southerly along the Fort King Road to Zephyrhills and to connect with the National Highway. Distance approximately 9½ miles. Bituminous surface on rock base, 15 feet wide.

Project No. 19.—A road starting from a point at or near east end of Meridian Street in Dade City, Florida; running South along present graded road through Ellerslie and Richland to the Polk County line. Distance approximately 12 miles. Bituminous surface on rock base, 15 feet wide.

Project No. 20.—A road beginning at the north end of the clay road from St. Joseph to lake Iola and running in a northeasterly direction to Jessamine Drive. Distance approximately 2 miles. Drained, graded 18 feet wide and sand clayed 9 feet wide.

Project No. 21.—A road beginning at St. Joseph and running west about 2 miles; thence northerly about 2 miles; thence west about 2 miles; thence south about 6½ miles, following present established road as nearly as practicable. Bituminous surface on rock base, 9 feet wide.

Project No. 22.—For the completion of a road beginning at Jessamine Groves on the Jessamine Drive and connecting with the St. Joseph road south of St. Joseph. Distance approximately 3 miles. Bituminous surface on rock base, 9 feet wide. Also a road beginning at the Pasco Road in San Antonio and running north to the St. Joseph Road. Distance approximately 3 miles. Bituminous surface on rock base, 15 feet wide.

Project No. 23.—Begin at a point on Jessamine Drive in Blanton and run northeasterly along the west side of the Atlantic Coast Line Railroad to Trilby, to connect with west end of road described in Project No. 15, approximately 6 miles, to be graded 20 feet wide and surfaced with sand clay, 15 feet wide.

Project No. 24.—A road beginning at the south end of the clay road at or near Prospect and running southerly to road described in Project No. 3. Distance approximately 5 miles, graded and clayed where necessary.

Project No. 25.—For the completion of road No. 4, Highlands Special District, beginning at the National Highway ½ mile north of Zephyrhills and running in an easterly direction to road designated Project No. 19. Approximately 4½ miles. Bituminous surface on rock base, 15 feet wide.

All proposals must be upon the blank forms provided, conform to specifications, etc., sealed and addressed to A. J. Burnside, Clerk of the Board of County Commissioners, Dade City, Florida.

A certified check in amount of three (3%) per cent of the proposal with a maximum check for $15,000.00 and made payable to B. A. Thomas, Chairman, Board County Commissioners, Pasco County, Florida, shall accompany each and every proposal as a guarantee of good faith on the part of the bidder.

The commissioners reserve the right to reject any or all proposals; to let contracts covering each and every road, or to let separately the Rock Base, the Wearing Surface, or to let a contract coveringg any portion of the work that may appear to them to be the best interests of the County.

Each and every contractor will be required to give a surety bond in amount of thirty (30%) per cent of the estimated cost of their contract for the faithful completion and execution of the same. Said Surety Bond to be secured through some local agent of a Surety Company represented in Pasco County and residing in said Pasco County, Florida.

Each bidder must accompany his bid with a certificate from a surety company authorized to do business in this State, and represented in Pasco County as above mentioned, stating that such surety company will provide said bidder with a bond in such sum as is required and in accordance with the provisions of the said specifications, conditioned for the faithful performance of the provisions of the contract and specifications, aforesaid.

Plans, profiles and specifications may be examined at the office of the Engineer, Dade City, Florida, on and after the 26th day of June, 1925. Copies of the Specifications may be had by depositing Five (5) Dollars therefor.

The Board of County Commissioners will sit at 1:30 o'clock, P.M. on the above mentioned date for the purpose of opening publicly reading and considering any and all proposals that may have been submitted.

Dated at Dade City, Florida, this the 8th day of June, 1925.

A. J. BURNSIDE,
Clerk, Board County Commissioners.

NOTE.—The above work is covered by an issue of One Million Three Hundred Thirty Thousand ($1,330,000.00) Dollars. The bonds have been sold and the amount will be available for the work.

Bids: July 8.

Bridges

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Monmouth, for the construction of Bridges No. F31, 32, 33, 34, 37 and Mn-52, the first five of which are located on the Elton-Adelphia Road, and the last on the Tennent-East Freehold Road, at Tennent Church, and opened and read in public at the rooms of said Board, Court House, Freehold, New Jersey, on July 8th, 1925, at 11.00 a.m., daylight saving time.

The proposed work will consist in the removal and disposition of the present structures, and the construction of the new culverts complete in every detail.

Drawings and specifications for the proposed work have been filed in the office of the County Engineer at 60 Broad Street, Red Bank, New Jersey, and may be inspected by prospective bidders, during business hours.

The standard proposal form is attached to the specifications. Copies of the proposal form will be furnished on application to the Engineer.

Drawings and specifications will be furnished to prospective bidders upon payment of ten dollars ($10.00) and will be returned only to those submitting a regular bid, and who return the drawings and specifications in good condition.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and name of proposed work on the outside, addressed to the Board of Chosen Freeholders of the County of Monmouth, and must be accompanied by a certified check for a sum not less than ten (10) per cent of the amount bid on the work; payable to the order of the County Treasurer and a surety company certificate stating that said surety company will provide the bidder with a bond in the amount of one hundred (100) per cent of the contract price, and must be delivered at the place and before the hour for opening of bids.

The Board of Chosen Freeholders of the County of Monmouth reserves the right to reject any or all bids if deemed to the best interests of the County so to do.

By order of the Board of Chosen Freeholders of the County of Monmouth.

BRYANT B. NEWCOMB,
Director.

Attest:
CHARLES E. COLE,
Clerk.
Freehold, N. J., June 3, 1925.

OFFICIAL PROPOSALS

Bids: July 7.

Construction and Repair Work

STATE OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
BUREAU OF CANALS

Albany, N. Y.,
June 4th, 1925.

Sealed proposals will be received by the undersigned at his office, No. 55 Lancaster Street, Albany, N. Y., until twelve o'clock noon (daylight saving time), of Tuesday, July 7th, 1925, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147, Laws of 1903, and amendatory and supplemental laws, and Chapter 217, Laws of 1925, as follows:

CONTRACT NO. 229
ERIE CANAL—SECTION 5.

For new construction and repair work at the Delta Dam. Contract plans, sheets 1 to 4, inclusive.

Plans may be seen, and detail specifications, engineers' estimates of quantities, proposal blanks, form of contract, and bonds required and other information for proposers may be had at the office of the Bureau of Canals, Albany, N. Y.; at the office of the Division Engineer, Department of Public Works, at Utica, Syracuse, Rochester and Buffalo; and at the Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate of fifteen cents (15c.) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank in good credit, within the State and payable at sight to the Commissioner of Canals and Waterways for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time in which case the amount of the deposit will be refunded by the Commissioner of Canals and Waterways.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Commissioner of Canals and Waterways, which sum shall not be less than fifty per centum (50 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work, according to the contract price will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Bureau of Canals, State Department of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Commissioner of Canals and Waterways of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject any or all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

ROYAL K. FULLER,
Commissioner of Canals and Waterways.

OFFICIAL PROPOSALS

Bids: July 1.

Road Work

Newton, N. J.

Notice is hereby given that sealed bids will be received by the Board of Freeholders of the County of Sussex for the paving of the Ross' Corner Sussex Road, Section 1 B in the Township of Frankford in the County of Sussex with a Reinforced Concrete Surface, estimated amount of surface pavement required is 14,222 sq.yds. and for the improvement of the Sussex Coleville Road in the Township of Wantage in the County of Sussex with a shale surface, pavement required is 60,335 square yards, excavation required 55,452 cu.yds., and opened and read in public at the Freeholders Office, Newton, N. J., on July 1st, 1925, at 11:30 a.m., Daylight Saving Time.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Harvey Snook, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said engineer at Newton, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the Engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to Board of Chosen Freeholders, County of Sussex, Newton, N. J., and must be accompanied by a certificate of the Bonding Company and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to Engineer.

The Board reserves the right to reject any or all bids.

By order of the County of Sussex.
(Signed) NORMAN B. ANDERSON,
Clerk.

Bids: July 6.

Subway Construction for Highway

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION

Trenton, N. J.

Contractors experienced in rock and earth excavation, the construction of bridges, retaining walls, and other structures of steel or masonry and/or reinforced concrete with necessary foundations, etc., street paving of concrete and granite block and in the other classes of work more particularly described in the plans, specifications and other documents and papers hereinafter referred to, are invited to tender bids on a unit price basis for the construction of the second section of the Highway known as Route No. 1 Extension, said section being situated between the New Jersey Junction Railway and Oakland Ave., in the City of Jersey City, N. J., a length of about 1,600 feet.

The work is to be done under the direction of the State Highway Commission and the State Highway Engineer, and in accordance with the provisions of Chapter 14, Laws of 1917, Chapter 253, Laws of 1922, and all Laws amendatory thereof or supplemental thereto.

The work contemplated under this contract includes briefly the following:

The clearing of the site of the work, including the demolishing of buildings as may be required.

The excavation for and the construction of a depressed roadway, surface streets, pavements, etc.

The relocation and reconstruction of subsurface structures such as sewers, water pipes, etc., etc.

Relocation of street railway tracks, poles, wires, etc.

The maintenance of Hoboken Avenue and adjacent streets and the street railway tracks within the area affected by the work, in such a manner that traffic can be maintained over them in a satisfactory manner.

Attention is called to the relation of this proposed work to the tracks of the Erie R.R., and other adjacent properties, and the contractor's responsibility for protecting these from the effects of blasting and other damages, incident to the construction.

The principal items of work to be done and the approximate quantities of some of them are:

Excavation, earth and rock, 78,000 cu.yds.
Concrete, 11,500 cu.yds.
Structural and other steel, 1,700 tons.
Asphalt Paving, 8,000 sq.yds.
Reconstruction of sub-surface structures.

The plans and specifications, form of proposal, contract and bond are on file at the office of the State Highway Commission of New Jersey, Trenton, New Jersey. Copies can be obtained at the office of the Commission at Trenton, or at the office of the Engineer at 921 Bergen Avenue, Jersey City. A deposit of Fifty Dollars ($50.00) will be required by the State Highway Commission of New Jersey for each set of plans and specifications furnished. The whole amount of such deposit will be refunded on the return of the plans and specifications in good condition to the State Highway Commission on or before July 6th, 1925.

Bids for this work will be received at the office of the State Highway Commission, 9th Floor, Broad Street Bank Building, Trenton, New Jersey, on Monday, July 6th, 1925, at eleven o'clock—11:00 a.m., Standard Time, (12 o'clock—noon, daylight saving time), and will be opened and read immediately thereafter.

Bids must be made on the form of proposal attached to the form of Contract, copy of which will be furnished by the Commission, and must be enclosed in sealed special addressed envelopes, which also will be furnished, bearing the name and address of the bidder and plainly marked "Proposal for the Construction of Section 2, Route No. 1 Extension," and a certified check made payable to the order of the Treasurer of the State of New Jersey, for the sum of Fifty Thousand ($50,000.00) must accompany each bid, said check to be returned to the unaccepted bidders on award of the contract, and to the accepted bidder on his signing the contract and furnishing the bond.

If the accepted bidder fails to execute and deliver the contract and bond within the time specified, the check shall become the absolute property of the State of New Jersey.

Each bidder must accompany his bid with a certificate from a surety company or surety companies duly authorized to do business in the State of New Jersey and satisfactory to the State Highway Commission of New Jersey, stating that if the bidder is awarded the contract such surety company or companies will provide the bidder with a guaranty bond or bonds for a sum equal to the total amount of the bid.

The State Highway Commission of New Jersey reserves the right to reject any or all bids.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

Bids: July 13.

Water Mains, Pumping Station, Etc.

Covington, Ky.

Sealed proposals will be received at the office of the Dixie Highway Water Co., No. 605 Coppin Building, Covington, Kentucky, until Two o'clock p.m. of Monday, July 13th, 1925, for the furnishing and laying of Water Mains; Construction of a Pumping Station; the furnishing and erection of Pumping and Auxiliary Machinery and Fittings; and the furnishing and erection of an Elevated Steel Water Tank.

Plans and specifications are on file at the office of the Dixie Highway Water Co., No. 605 Coppin Building, Covington, Kentucky, and are open to the inspection of all parties interested.

Each proposal must be accompanied by a surety company bond or certified check, of an amount equal to at least ten (10) per cent of the total bid, as a guaranty that if proposal be accepted a contract will be entered into.

The bidder or bidders to whom contract is awarded will be required to furnish a surety company bond in an amount equal to at least fifty (50) per cent of the total bid.

The Company reserves the right to reject any or all bids.

Bidders must use the printed forms, as none other will be considered.

THE DIXIE HIGHWAY WATER COMPANY.

OFFICIAL PROPOSALS

Bids: July 6.

Road Work

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the following:

ROUTE NO. 4, SECTION NO. 32
Construction of Route No. 4, Section No. 32, Rahway to Perth Amboy, in the Counties of Middlesex and Union. Estimated 25,371 cu.yds. earth excavation; 1,200 cu.yds. soft rock excavation; 500 cu.yds. hard rock excavation; 80,200 sq.yds. 9" reinforced concrete pavement, together with the construction of one small span bridge.

Bids for the above will be received at the office of the State Highway Commission, 9th floor Broad Street Bank Building, Trenton, New Jersey, on Monday, July 6, 1925, at eleven o'clock (11:00 A.M.), Standard Time, and will be opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on a deposit of Ten Dollars ($10) for each project upon application to the State Highway Department, Room 901, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated in the 1924 specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and name and section of route on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application. Bids not enclosed in special addressed envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of the said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

Bids: July 2.

Road Work

VIRGINIA STATE HIGHWAY COMMISSION
Richmond, Va.,
June 11th, 1925.

Sealed bids will be received at the Office of the State Highway Commission, State Office Bldg., Capitol Square, Richmond, Va., until 10:30 a.m., Thursday, July 2nd, 1925, for the construction of:

ROUTE 31—PROJECT F-379 B—2.602 Mi. So. of Ritchies Store to 4.424 Mi. So. Ritchies Store, in Dinwiddie Co. 1.973 Mi. of 18' x 8"-6"-8" Concrete surfacing. Shipping Pt., Petersburg, S. A. L. & N. & W. R.Rs., 4 mi. haul.

Proposal guaranty to be cert. check, cashier's check, or cert. of deposit to the amount of $1,000.00. Proposal bonds 20% in excess of the above amount may be used.

Plans and specifications are on file at the Richmond Office, State Highway Commission and at the office of the Dist. Engr. in Richmond. Additional plans for bidders may be obtained upon application to the State Highway Dept., upon receipt of $5.00 payable to H. G. Shirley, $2.50 of which will be refunded if plans are returned in good condition within two weeks after bids are opened.

An Engineer will be at Hotel Petersburg, in Petersburg at 10 a.m., Thursday, June 25th, to show prospective bidders over the work. The State Highway Commission reserves the right to reject any or all bids.

H. G. SHIRLEY,
Chairman.

C. S. MULLEN,
Chief Engineer.

OFFICIAL PROPOSALS

Bids: July 6.

Screens

GRASSLANDS HOSPITAL
White Plains, N. Y.

Proposals will be received for the furnishing and erecting of Screens required for Nurses' Home and Employees' Dormitory in connection with the County Hospital in the Town of Mt. Pleasant, County of Westchester, and State of New York, and known as Grasslands Hospital.

Separate sealed bids or proposals will be received at the office of the Clerk of the Board of Supervisors at the Court House, White Plains, New York, until eleven a.m. (Daylight Saving time), July 6th, 1925.

Specifications, drawings and all information relative to the same may be procured either from Walker & Gillette, Architects, or from Fred L. Merritt, Clerk of the Board of Supervisors, Court House, White Plains, New York.

Each separate bid or proposal must be accompanied by a certified check in the sum of three per cent of the amount bid, made payable to the Treasurer of the County of Westchester, same to be forfeited to the County of Westchester as liquidated damages in the case of failure on the part of the successful bidder to enter into a contract for the execution of the work awarded to him and to furnish a satisfactory bond within five days after notice of such award.

Each successful bidder will be required to execute the contract and furnish a surety company bond in the sum equal to fifty per cent of the amount of the contract awarded to him, guaranteeing the faithful performance of the work, said contract and bond to be in the form required by the County Attorney.

All bidders must submit their proposal on the form of bid accompanying the drawings and specifications and in the manner indicated therein.

The Board of Supervisors reserves the right to reject any and all bids or to accept any proposal which it may deem for the best interest of the County of Westchester.

Board of Supervisors, County of Westchester.

FRED L. MERRITT,
Clerk.

Bids: June 27.

Road Work

Elizabeth City, N. C.

Bids desired June 27th, 2:30 o'clock p.m. by the Pasquotank Highway Commission, Elizabeth City, N. C., S. G. Scott, Chairman, for hard-surfacing Body Road, three (3) miles. J. R. Ford, Engineer, Box 232, Elizabeth City, N. C. Plans and specifications can be seen in the office of the Pasquotank Highway Commission. Plans will be sent upon receipt of ten dollars deposit. The right is reserved to reject all bids.

J. R. FORD, Engineer,
Box 232, Elizabeth City, N. C.

Bids: July 6.

Road Work

Fayetteville, W. Va.

Sealed proposals will be received by the County Court of Fayette County, W. Va., at the Court House in Fayetteville, until 10.00 o'clock a.m. on the 6th day of July, 1925, and opened and read immediately thereafter for the construction of the following section of County District Road.

Project K 51—7 miles of the Kincaid-Deepwater Road in Kanawha District for paving with Cement Concrete or Bituminous Macadam.

Certified Check, $5,000.00.

Proposals will be received only upon standard forms, in accordance with plans, specifications and estimates of the quantities therefor, which standard forms, plans, specifications and estimates of quantities may be obtained from the County Road Engineer at Fayetteville, W. Va.

Each proposal must be accompanied by a certified check in the amount specified.

The right is reserved to reject any and all bids.

The County Court of Fayette County.
THOMAS BOONE,
Clerk.

OFFICIAL PROPOSALS

Bids: June 30.

Construction, Heating, etc.

BROOKLYN STATE HOSPITAL
CREEDMOOR DIVISION
Brooklyn, N. Y.

Sealed proposals for Construction, Heating, Sanitary, Electric Work, Refrigeration (Buildings A, B, C, H, I, K, L, M, N, T, X, Y, EE, FF, HH, etc.), Creedmoor Division, Brooklyn State Hospital, Queens (Creedmoor), Long Island, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2 o'clock, P. M. (Eastern Standard Time), Tuesday, June 30th, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to 5% of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specifications Nos. 4481, 4482, 4483, 4484 and 4485. The right is reserved to reject any or all bids. Drawings and specifications may be examined at Brooklyn State Hospital, Brooklyn, N. Y.; at the New York Office of the Department of Architecture, 18th floor, Flatiron Building, Broadway and 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained by persons or firms engaged in the line of work required at the discretion of the Architect from the Department of Architecture, Capitol, Albany, N. Y., upon a deposit of $100 of money, or check made payable to the State of New York for each set of Construction drawings and specifications and in the amount of $25.00 for each set of Heating, Sanitary, Electric or Refrigeration drawings and specifications, which deposit will be returned if the drawings and specifications are received in good condition by the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

DATED: June 1, 1925.

Bids: July 1.

Paving, Curbing, etc.

Georgetown, S. C.

Sealed bids will be received until 12 o'clock July 1, 1925, at office City Clerk, Georgetown, S. C., for paving and other municipal improvements, consisting of the following approximate quantities:

23,000 sq.yd. street pavement.
14,000 lin.ft. curb and gutter.
20,000 sq.yd. sidewalk with necessary storm sewers, manholes, etc.

Plans, specifications, etc., will be mailed on request to Johnson & Roberts, Engineers, Marion, S. C., on receipt of $5 without refund.

C. B. COLBERT, Mayor,
Georgetown, S. C.

Bids: July 6.

Sewer

Lansdale, Pa.

Bids will be received by the Council of the Borough of Lansdale, Pa., up to 7 p.m. Standard Time, July 6, 1925, for:

(a) Constructing 3,800 feet Vitrified Pipe Sewer 20 inches in diameter and 13 manholes.
(b) Constructing 420 feet 5' x 5' reinforced concrete culvert.
(c) Constructing a Sewage Treatment Plant.

Bids must be sealed, made on blanks furnished by the Engineers and accompanied by a certified check to the amount of 2% of the amount of the bid. The plans and specifications may be obtained at the office of Albright & Mebus, 1502 Locust St., Philadelphia, Pa., or Glenside, Pa., upon the receipt of $10.00, which will be refunded if the plans and specifications are promptly returned in good condition.

The Borough reserves the right to reject any or all bids.

By order of Council.

NELSON C. B. KRIEBEL,
Secretary.

June 8, 1925.

OFFICIAL PROPOSALS

Bids: July 21.

Construction, Heating, Sanitary Work, etc.

Ithaca, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work, Additions and Alterations to Veterinary Hospital, New York State Veterinary College, Cornell University, Ithaca, N. Y., will be received by Mr. C. B. Bostwick, Comptroller, Cornell University, Ithaca, N. Y., until 11 o'clock a.m., (Eastern Standard Time), Tuesday, July 21, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to 5% of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specifications Nos. 4542, 4543, 4544 and 4545. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the New York State Veterinary College, Cornell University, Ithaca, N. Y.; at the New York Office of the Department of Architecture, 18th Floor Flatiron Building, Broadway & 23rd Street; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained by persons or firms engaged in the line of work required at the discretion of the Architect from the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check, or money, in the sum of $10.00 made payable to the State of New York, for each set of drawings and specifications, which deposit will be returned if the drawings and specifications are received in good condition by the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated: June 17, 1925.

Bids: July 15.

Highway Construction

STATE DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

Albany, N. Y.

Sealed proposals will be received by the undersigned at the office, No. 55 Lancaster Street, Albany, N. Y., until one o'clock p.m. on Wednesday, July 15, 1925, advanced standard time, which is twelve o'clock noon eastern standard time, for the construction of highways in the following counties:

CAYUGA.....(one highway: 3.01 miles)
MADISON.....(one highway: 5.58 miles)
ONEIDA.....(one highway: 5.58 miles)
ST. LAWRENCE.....(one highway: 8.53 miles)
WAYNE.....(one highway: 5.90 miles)
WYOMING.....(one highway: 1.26 miles)
STEUBEN.....(one highway: 5.58 miles)

Also for the reconstruction of the following:

ALBANY.....(one contract: 1.04 miles)
CAYUGA.....(one contract: 4.91 miles)
COLUMBIA.....(one contract: 1.78 miles)
ESSEX.....(one contract: 7.64 miles)
FRANKLIN.....(one contract: 0.66 miles)
ONONDAGA.....(one contract: 1.06 miles)
SUFFOLK.....(one contract: 1.13 miles)
STEUBEN.....(one contract: 8.09 miles)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Bureau in Albany, N. Y., and also at the offices of the division engineers in whose division the roads are located. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

A. W. BRANDT,
Commissioner of Highways.

OFFICIAL PROPOSALS

Bids: July 7.

Water-works

New London, N. H.

Sealed proposals on blank forms addressed to the Water Commissioners, New London, N. H., will be received until 12 o'clock, noon, Tuesday, July 7th, 1925, for doing the following work:

Building earth dam containing about 1,800 cu.yds. of earth and about 75 cu.yds. of concrete. Clearing and grubbing about three-fourths acre at reservoir site, and laying about five miles of 12", 10" and 6 inch wood pipe.

Plans and specifications can be seen at the office of the Water Commissioners. Each bid shall be accompanied by a certified check for five hundred dollars, made payable to Treasurer of Water Commission.

The Board reserves the right to reject any and all bids or to award contracts for any parts of the work.

BOARD OF WATER COMMISSIONERS,
New London, N. H.

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these advertisers through *Engineering News-Record's* large NATIONAL circulation, reaching almost every worthwhile contractor, dealer, and manufacturer in the country interested in bidding on public work contracts. It is the DOMINANT MEDIUM for advertising contracts for work, material, and supplies for towns, cities, counties, state and government departments, and private organizations.

Bids: July 9.

Raising of Dam and Highway

Woonsocket, R. I.

Sealed proposals endorsed "Proposals for Raising of Dam at Reservoir No. 3, Woonsocket Water Works, and located in the Towns of Smithfield and North Smithfield, R. I., and Raising of Highway near the Stephen Wright Place (so-called)," will be received by the Board of Water Commissioners at their office, City Hall, Woonsocket, R. I., until 7:30 o'clock p.m., Thursday, July 9, 1925, for Furnishing all materials for building and raising of said Dam at Reservoir No. 3, and raising of the Highway near the Stephen Wright Place, (so-called). The Commissioners will be in session at 7:30 p.m. on said date for the purpose of receiving said proposals, or they may be left at the office previous to that time, and at 7:45 o'clock p.m. said proposals will be publicly opened and read.

Each proposal must be accompanied by a certified check, drawn and made payable to the order of the Treasurer of the City of Woonsocket, for the amount of One Thousand ($1,000) Dollars, as security for the execution of the contract, and a bond in form approved by the Board of Water Commissioners of the City of Woonsocket.

The amount of the bond for the fulfillment of the contract shall be the full amount of the contract.

Plans and specifications may be seen and form of proposal obtained at the office of the City Engineer. Proposals must be on forms provided. Prospective bidders may obtain copies of plans by making a deposit of Five ($5.00) Dollars. Said deposit will be returned when plans are returned in good condition.

The right to reject any or all bids is expressly reserved, as the interest of the City may appear.

City of Woonsocket by its Board of Water Commissioners.

JOSEPH O. LEFRANCOIS,
Chairman.
JAMES LONG.
GEORGE E. BOUVIER.

FRANK H. MILLS,
City Engineer.

OFFICIAL PROPOSALS

Bids: July 9 (extended date).

Water Works Improvements

Ronceverte, W. Va.

Sealed proposals will be received by the City of Ronceverte, W. Va., at the office of the City Clerk up to 4 p.m., July 9, and then publicly opened and read, for the following water works improvements:

Filter plant having a capacity of 500,000 gallons per 24 hours and consisting of concrete intake, 4-hour settling basin, two filter units, piping, and electric pump room, 36,000 gal. filtered water well, and brick superstructure.

Furnishing and installing filter piping, and equipment; changing present high pressure electric centrifugal pumps to new plant; piping pumps and intake, and electric wiring.

Furnishing two raw water centrifugal pumps, 350 g.p.m. each against a total head of 25 ft. direct connected to 5 hp. electric motors, 220 volts a.c. with starters.

Relining and enlarging with concrete the old concrete reservoir to give a capacity of 250,000 gallons.

All bids must be accompanied by a certified check for not less than five per cent of the amount of bid drawn to the order of City of Ronceverte, W. Va. Checks of unsuccessful bidders will be returned within two weeks after bids have been opened and read.

An approved contract bond in a sum equal to one-half the amount of the contract will be required of each contractor, except in the case of contract to furnish the raw water pumps by manufacturer.

The right is reserved to reject any or all bids or to award contracts separately for each of the four above named items or all to one contractor.

All bids must be addressed to the City Clerk, Ronceverte, W. Va., and sealed and marked plainly on outside of envelope "Bids on Water Works Improvements."

Specifications and plans may be seen at the office of the City Clerk on and after June 15 or may be obtained after that date from the engineer upon the receipt of $5.00 which is the estimated cost of making up and mailing the extra copies. No charge will be made for specifications and bidding form for furnishing pumps.

A. S. WOODHOUSE, City Clerk,
Ronceverte, W. Va.

H. K. BELL, Engineer,
418 Hernando Building,
Lexington, Ky.

Bids: July 6.

Streets

Bicknell, Ind.

Bids will be received by the City of Bicknell, Indiana, until 7:30 P.M., on the 6th day of July, 1925, for a street improvement, including 14,500 sq.yds. brick, asphalt or concrete pavement; 3,000 sq.yds. of concrete sidewalks; 1,200 lin.-ft. combined curb and gutter and about 8,500 lin.-ft. of sewer, size 12 in. to 30 in., all as set out in the engineer's report now on file with the clerk of said city. For further information and forms write either Myrtle Hollingsworth, City Clerk, or Robt. E. Lind, City Engineer.

EXCAVATION

Steam Shovels for rent with crews or work taken by contract.

Dinkeys and cars or teams furnished.

H. C. AMBLER
3717 Old York Road, Philadelphia, Pa.

"'Luck' and 'Guess' are sorry scouts;
'Map' and 'Compass' have no doubts."
A. G.

Plan your work then work your plan. With Swart Service part of your plan, you've made a safe beginning.

HARMON V. SWART
Insurance Advisor—Rate Specialist
92 William St., New York City

We Make A Specialty of Laying Water Mains and Installing Water Systems

We dig and refill trenches for water and gas mains.
Trench Machines and backfillers for rent.

W. G. FRITZ & CO., Inc., Contractors
258 Valley Road, WEST ORANGE, N. J.

OFFICIAL PROPOSALS

Bids: July 27.

For Furnishing 48 and 36-inch Water Mains for the Metropolitan Utilities District.

Omaha, Neb.

Sealed proposals addressed to the Metropolitan Utilities District, Omaha, Nebraska, and indorsed "Proposals for Water Mains," will be received at the office of the General Manager, Room 206 City Hall, Omaha, Nebraska, until Twelve (12) o'clock noon of Monday, the 27th day of July, 1925, for furnishing, for furnishing and installing, or for installing only, the whole or such part as may be stipulated in the proposal of a 48 inch water main having a total length of approximately 21,970 feet and two 36 inch water mains having a total length of approximately 2,556 feet.

Each proposal must be accompanied by a certified check equal to five per cent (5%) of the amount of the bid made payable to the Metropolitan Utilities District as security for the acceptance of the contract.

The Board of Directors reserve the right to accept any bid, or to reject any or all bids.

Plans, profiles, specifications and forms of proposals and contracts may be obtained at the office of the General Manager, City Hall, Omaha, Nebraska, upon deposit of Five (5) dollars.

METROPOLTAN UTILITIES DISTRICT,
of the City of Omaha, Nebraska.
THEODORE A. LEISEN,
General Manager.

U. S. Government

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 10, 1925. Sealed proposals will be opened in this office at 3 p.m., July 13, 1925, for the construction of a one-story brick faced Post Office building, approximately 76 by 44½ feet in size at Walden, N. Y. Drawings and specifications may be obtained from the Custodian of the site at Walden, N. Y., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

U. S. Government

UNITED STATES ENGINEER Office, Montgomery, Ala. Sealed proposals will be received here until 12 o'clock noon, July 25, 1925, and then opened, for removing wreck of barge Avio in St. Josephs Bay, Fla., and wreck of the schooner Alpena in St. Andrews Bay, Fla. Further information on applicatoin.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 a.m., July 21, 1925, and then opened, for furnishing and delivering structural steel lock gates, including fittings, castings, etc., for Dam No. 1, Tennessee River, and for the erection of the gates. Further information on application.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 a.m., July 7, 1925, and then opened, for furnishing and erecting a Strauss trunnion bascule bridge across the navigation lock of Wilson Dam. Further information on application.

PROPOSALS FOR LEVEE WORK—Office of Third Mississippi River District, P. O. Box 404, Vicksburg, Miss. Proposals for about 360,000 cubic yards of levee work will be received here until 10 a.m., June 29, 1925. Information on application.

U. S. ENGINEER OFFICE, Providence, R. I. Sealed proposals will be received here until 12 o'clock noon, Eastern Standard Time, July 3, 1925, and then opened, for dredging in Bridgeport Harbor, Conn. Further information on application.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 a.m., July 20, 1925, and then opened, for furnishing and erecting a Gantry Crane on Spillway section of Wilson Dam. Further information on application.

U. S. Government

SEALED PROPOSALS, indorsed "Proposals for Quarters, Brooklyn, N. Y., Specification No. 4937," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 o'clock a.m., July 15, 1925, and then and there publicly opened, for a double quarters for officers at the Naval Hospital, New York (Brooklyn), N. Y. The work includes concrete foundations and basement walls, concrete walks, brick walls above basement, artificial stone, miscellaneous steel and iron work, slate and tin roofing, sheet metal work, lathing and plastering, tile and marble work; lumber and mill work, screens, hardware, painting and glazing, and plumbing, heating and electrical systems. Specification No. 4937 and accompanying drawings may be obtained on application to the Bureau or to the Commandant, Navy Yard, New York (Brooklyn), N. Y. Deposit of a check or postal money order for $10, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawings and specification. L. E. Gregory, Chief of Bureau, May 26, 1925.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11:00 a.m., July 8, 1925, and then opened, for swinging machinery for navigation lock gates, Wilson Dam, Tennessee River. Further information on application.

U. S. ENGINEER OFFICE, Galveston, Texas. Sealed proposals will be received here until 2:00 p.m., July 17, 1925, and then opened, for constructing and delivering five (5) 35-foot and three (3) 40-foot Motor Launches. Further information on application.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 a.m., July 7, 1925, and then opened, for furnishing and erecting a bascule bridge across the navigation lock of Wilson Dam. Further information on application.

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AND OTHER BUSINESS OPPORTUNITIES

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E.N.R.

POSITIONS VACANT

AN engineer wanted thoroughly familiar with the design and operation of dipper and hydraulic dredges (a knowledge of placer dredges desirable but not essential) to investigate existing dredges of these types in this country and to make preliminary designs of a complete line of each type. Employment permanent. State technical training, practical experience and other qualifications, also salary expected. P-831, Engineering News-Record, 7 South Dearborn St., Chicago, Ill.

DESIGNER with considerable experience in reinforced concrete arch and caisson work. Apply by mail giving education, experience, references and salary desired in first letter. P-887, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

DETAILERS, designers, estimators, with reinforcing bar experience, wanted for Baltimore, Syracuse and New York. Give details as to age, experience, education and salary expected in first letter. P-891, Engineering News-Record, Tenth Ave. at 36th St., New York.

DRAFTSMEN—Experienced in shop drawings for structural steel. Apply by mail only, giving age, nationality, education, experience and salary expected. Post & McCord, 101 Park Avenue, New York.

DRAFTSMEN wanted, experienced in detailing and checking all classes of steel structures. Permanent position for right man. In replying state age, experience, nationality, salary desired and when available. P-885, Engineering News-Record, 7 So. Dearborn St., Chicago, Ill.

ENGINEERS with municipal experience on water, sewer or streets as combination instrument man and inspector on residences southeastern territory. Give full particulars as to age, experience, references and salary expected in first letter and date can report. Address Engineers, 1408 Citizens & Sou. Bank Building, Atlanta, Georgia.

ENGINEERING graduates. Several recent graduates on bridge and structural steel. Apply by letter, giving age, school, date of graduation, experience, etc. P-888, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

POSITIONS VACANT

ESTIMATOR and draftsman wanted for general contractor's office. Technical education preferred. State age, experience and salary in first letter. Address Box 501, Ashland, Ky.

EXPERIENCED checkers wanted on bridge and structural steel drawings. State age, education, references, details of experience, salary expected. Address Engineer, American Bridge Company, Ambridge, Pa.

EXPERIENCED detailers and checkers on bridge and structural steel. Apply by letter, giving age, education, experience, salary expected. Location Philadelphia. P-889, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

FIELD engineers, 27 to 35, in contract bond department. Prefer Asso. Mem. or Mem. Am. Soc. C.E., with at least five years' active construction experience, good personality and ability to talk convincingly. Single men as much traveling is involved. Salary $2,000 to $3,000 a year and expenses as start, depending on previous experience and qualifications; opportunity for advancement to desirable permanent connection. Reply by letter stating age, education, married or single, complete experience, actual duties performed each job or organization and salary received, also references. Interview can be arranged in any large eastern city. E. W. Bush, Engineer, Aetna Casualty & Surety Company, Hartford, Conn.

LEVELMAN, must be a neat draftsman and able to make topographical surveys. Salary $140, with expenses away from headquarters. Apply by letter, giving age, nationality, education, experience, and submit sample of drafting. Erie Railroad Company, Susquehanna, Pa.

POSITIONS VACANT

OFFICE engineer wanted, location Southeastern states, with experience in designing of water purification plants from one to five million gallons capacity and general municipal work. Must be a good draftsman. State age, education, experience and salary expected in first letter. Also how soon you could report. P-900, Engineering News-Record, Tenth Ave. at 36th St., New York.

RESIDENT engineer wanted with municipal engineering experience. Location in the Southeast. State age, education, experience, salary expected and date you could report in letter of application. P-899, Engineering News-Record, Tenth Ave. at 36th St., New York.

RODMAN wanted; state experience and salary expected. Address 530, Guarantee Trust Bldg., Atlantic City, N. J.

SALES manager for Rocky Mountain region, direct force and sell, best lines construction machinery, must have thorough knowledge technical and practical, steam and gas shovels, cranes, draglines, large mixers, pavers, conveyors, road machinery; must be able handle men; good personality; high class man only; give references, experience, age, salary expected. P-857, Eng. News-Record, 7 So. Dearborn St., Chicago, Ill.

STRUCTURAL draftsman for laying out and detailing structural steel for buildings. State in application, age, nationality, education, experience, salary expected and date available. References will be required. The James H. Tower Iron Works, Providence, R. I.

TWO structural designers wanted, familiar with reinforced concrete factory work. Salary $200 to $300 per month. Also one reinforced concrete detailer. Elwyn E. Seelye, 101 Park Avenue, New York.

Prepare for a Bigger Job

Foremen, Timekeepers, Clerks, become Estimators and Construction Managers by spare time study. Full particulars sent upon request.

TYREAN INSTITUTE
15 E. Grove St., Palmer, Mass.

DRAFTSMAN

First class Draftsman who is technical graduate with general experience in design of locomotive cranes, excavating machinery or machinery of similar character.

Good opportunity for advancement with well-established concern.

P.-880, Engineering News-Record
Leader-News Bldg., Cleveland, O.

For the Draftsman with an Eye to the Future

OTHER WILSON COURSES:
Reinforced Concrete Engineering
Bridge Engineering
Structural Steel Designing
Structural Engineering
Preparatory Course
Concrete Drafting and Estimating

The most plentiful commodity in our industrial life is the average man. Ordinary draftsmen are included. They are just draftsmen. However, the men who specialize in particular branches of work, are those sought after and well paid these days. Specialize! Structural is one branch of drafting with a promising future.

Structural Drafting

NOT A SET OF BOOKS—PRACTICAL WORK

(By Mail)

This course recognizes the special needs of draftsmen who are now employed at or who contemplate doing structural work. In addition to being a course affording extensive practical experience in drafting, it includes training in structural steel designing which is necessary for a wider knowledge of the student's special field and to enable him to do his work intelligently.

Write for Literature

WILSON ENGINEERING CORPORATION
College House Offices, Harvard Square, Cambridge, Mass.

Land Surveyor — for acreage surveys and subdivisions.

Architectural Draftsman—design of small houses.

Engineering Draftsman—subdivision improvements.

The variety of our work is your assurance of steady employment.

JAMES ANDERSON CO., INC.
Architects and Engineers
Lake Forest, Illinois

POSITIONS VACANT

STRUCTURAL steel draftsman, capable of checking, wanted at once. Must be thoroughly experienced in structural steel details, rapid and accurate. Give full experience, salary required and date available. Carolina Steel & Iron Co., Greensboro, N. C.

TRANSITMEN and levelmen wanted on transmission line surveys and construction. Unmarried, civil engineer graduates preferred. State age, education, practical experience in detail, references, and minimum salary acceptable. Address Chief of Surveys, P. O. Box 1072, Birmingham, Ala.

WANTED: Experienced detailers and checkers of structural steel with at least five years' experience. Apply by letter giving age, nationality and education. Southern Engineering Company, Box 998, Charlotte, N. C.

WANTED immediately for job in Florida, few experienced mechanical and electrical men to prepare plumbing, heating and electrical plans and specifications for large hotel and similar work. Wire, stating qualifications to A. Bentley and Sons Co., Toledo, Ohio.

EMPLOYMENT SERVICE

EXECUTIVES, engineers, find our individual, confidential service effective in making new connections. Personally conducted by Mr. Jacob Penn, the eminent employment authority, known to leading business men throughout America. Refund agreement protects you. Not agency. Jacob Penn, Incorporated, 305 Broadway, New York.

SALARIED men seeking tentative offers of new connections, are invited to communicate confidentially with the undersigned, who will negotiate overtures without jeopardy to present connections. A professional, ethical service, restricted to high grade positions; established 1910. Retaining fee refunded as provided in our "Refund Contract" if service is not satisfactorily rendered as per contract, and such refund be requested within three months from date remitted. Send name and address only for particulars. R. W. Bixby, Inc., 701 Lockwood Building, Buffalo, N. Y.

EMPLOYMENT AGENCIES

GENERAL Engineering Agency, Emich Building, Pittsburgh, Pa., require municipal and general draftsmen for extensive development and construction, Florida, Central America, Ohio, Virginia, Michigan, Mexico; also for various industrial plants, Eastern, Western localities. Highway transitmen, inspectors, college instructors for technical and academical institutions, railway draftsmen, chainmen, rodmen, transitmen, structural detailers.

INSTRUCTORS—Good college training or one to three years' experience either mechanical, electrical or chemistry; also professors and assistant professors. Write fully, giving experience in detail. H. H. Harrison & Co., Technical Teachers' Agency, 19 S. LaSalle St., Chicago, Ill.

WANTED, experienced draftsmen and designers, steel, architectural, ornamental iron, bridges and conveyors. Young graduate engineers, all lines. Cleveland Engineering Agency, 904 Rose Bldg., Cleveland, Ohio.

POSITIONS WANTED

Civil Engineers

CIVIL engineer and construction superintendent, age 39; 18 years' broad experience railroad and highway location and construction; bridges, concrete work, surveys, plans, estimates, and general office supervision; contractors' superintendent; now employed; wishes position, preferably with contracting or engineering firm. PW-803, Eng. News-Record, 7 So. Dearborn St., Chicago, Ill.

CIVIL engineer, age 31, university graduate; seven years' experience in railroad maintenance and construction work. Desires connection where ability, good personality and hard work are required. PW-825, Engineering News-Record, 7 South Dearborn St., Chicago, Ill.

CIVIL engineer, graduate, three years' bar company experience, design, estimate, inspection reinforced concrete. Two years general building construction. PW-878, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

POSITIONS WANTED

CIVIL engineer, graduate, ten years' experience on surveys, investigations, valuations, construction, highway contract supervising, open for position. Desire responsibility. PW-775, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

CIVIL engineer, Assoc. M. A. S. C. E., 33; 2 years in Europe, 3 years in Dutch East Indies, 1 year New York; experience; reinforced concrete, hydro-electric developments, steam plants, irrigation. Now employed. Can also go abroad. PW-892, Engineering News-Record, Tenth Ave. at 36th St., New York.

CIVIL engineer, age 27, married; two years drafting room, four years construction work before entering school. Is a hustler and wishes to locate only with live contractor near New York, Hudson Valley preferred. Employed now. Salary reasonable. PW-905, Engineering News-Record, Leader-News Bldg., Cleveland, Ohio.

CONSTRUCTION manager, civil engineer, age 41; nineteen years' experience heavy construction, including tunnels, sewers, highways and subways. On account of present partners' retirement wishes new connection. Available July 1st. PW-898, Engineering News-Record, Tenth Ave. at 36th St., New York.

CORNELL, C.E., Mem. Am. Soc. C.E., broad experience in the investigation of large power and irrigation projects, including topographical and location surveys, design, specifications, estimates, reports, construction ;open for engagement. PW-865, Eng. News-Record, 7 So. Dearborn St., Chicago, Ill.

GRADUATE civil engineer with managerial ability, transitman and estimator; experienced on foundation and general concrete construction, transmission lines and sanitary sewers. Work with contractor preferred. Box 2, Rockville, Md.

Designers and Draftsmen

DESIGNER, graduate, experienced highway and railroad bridges of any kind, desires position offering higher opportunities. PW-790, Engineering News-Record, Leader-News Bldg., Cleveland, Ohio.

EXPERIENCED designer-estimator. Graduate engineer, married; with 8 years' experience with contractors, fabricators and consulting firms in responsible charge of designing and estimating structural steel and reinforced concrete. Now with contractor. Available two weeks' notice for position as designer-estimator or chief draftsman. PW-908, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

DRAFTSMAN desires position; assessment maps, subdivisions, highway work, track plans, calculations. PW-894, Engineering News-Record, 7 So. Dearborn St., Chicago, Ill.

Bridge and Structural

STRUCTURAL engineer, nine years' experience, railway, construction, and university teaching desires position as bridge or structural designer. Excellent knowledge theory mechanics, stresses, design. Available two weeks; now employed. PW-833, Engineering News-Record, 7 South Dearborn St., Chicago, Ill.

Surveyors

SURVEYOR and draftsman, C. E. graduate, varied experience on surveys, designing and estimating of miscellaneous steel and concrete structures, now employed, desires change offering good optunity. Location immaterial. PW-886, Engineering News-Record, Tenth Ave. at 36th St., New York.

POSITIONS WANTED

RODMAN desires position with engineering company. Has had six months' experience on highway work. PW-793, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

Superintendents

CONTRACTOR'S superintendent or general foreman wants position; twenty years' experience in heavy railroad work, stone quarry and stripping proposition; good organizer and producer; good references; available June 1. Address Walter Conway, Woodwardville, Maryland.

CONTRACTOR'S superintendent, construction of roads, sewers, heavy excavation. 16,439 Sun office, Baltimore, Md.

CONSTRUCTION engineer or superintendent, experienced all classes building construction; an organizer, familiar with all lines of building trades, estimating, purchasing and detailing, broad business training open for a position as general superintendent, estimator, or any position on construction work requiring technical, practical or executive training. PW-907, Engineering News-Record, 7 So. Dearborn St., Chicago, Ill.

HIGHWAY construction superintendent; fifteen years' experience; best of credentials to ability and character; complete organization ready; positively competent to handle the job in all details; available immediately. PW-247, Engineering News-Record, Leader-News Bldg., Cleveland, Ohio.

SUPERINTENDENT, industrial and educational work preferred, capable hustler, understand work thoroughly. Best of references. Married. Available at once. PW-859, Eng. News-Record, Leader-News Bldg., Cleveland, Ohio.

SUPERINTENDENT of large excavation, rock or earth, sewers, water lines and reservoirs, bridge and foundation work of a difficult nature. Any kind of reinforced or bulk concrete construction, is available immediately with a thorough organization and fifteen years' experience on above lines. Thoroughly competent to handle and man all departments with experienced men. PW-806, Engineering News-Record, Leader-News Bldg., Cleveland, Ohio.

SUPERINTENDENT, on municipal and highway construction. Engineering graduate, age 30, American, married. Experienced on water line, filtration, sewers, sewage disposal, paving, heavy shovel excavation, reinforced concrete and railroad work. Handle several jobs. Can estimate and buy. Have handled to $700,000 work a year. Employed. Present salary $325.00, 12 month base. Want permanent job. Location immaterial. PW-875, Eng. News-Record, 7 So. Dearborn St., Chicago, Ill.

General Superintendent or Superintendent

With 22 years of technical and practical experience on high type construction work. Open for engagement on or before July 15th.

Two Connections in Fifteen Years

PW-895, Engineering News-Record
Tenth Ave. at 36th St., New York City

We Will Feed Your Men—

We operate boarding camps anywhere.

Laborers furnished free where we conduct commissaries.

We have been boarding men on large out-of-the-way construction jobs for 20 years in all parts of the United States and Canada—and under all conditions. We know the needs and all the little details in connection with such camps that keep labor contented and on the job. It will pay you to turn your labor problem over to us.

IT IS OUR SOLE BUSINESS

Consider this when you are ready to recruit a gang for an out-of-the-way job. We can give you the same thorough satisfaction that we have such people as the Frisco Lines, U. S. Army, Atlas Powder Co., Standard Oil Co., I-GN Railroad, etc.

Central Boarding & Supply Company

Coca Cola Building, Kansas City, Mo.

POSITIONS WANTED

SUPERINTENDENT state road twelve years. Liberty July 1. PW-855, Eng. News-Record, Tenth Ave. at 36th St., New York.

SUPERINTENDENT, 40. Over 20 years' experience, masonry, brick and heavy concrete construction; bridges, dams, powerhouses, cofferdams, piledriving. Location immaterial. PW-685, Eng. News-Record, 10th Ave. at 36th St., New York.

Miscellaneous

ARCHITECT and structural engineer, with many years of experience in municipal, factory and waterworks; age 40 years. PW-881, Engineering News-Record, Leader-News Bldg., Cleveland, O.

CARPENTER or general foreman, A-1 mechanic, with technical training; broad experience on all classes of industrial or commercial buildings; good draftsman; married; age 38. PW-893, Engineering News-Record, 7 So. Dearborn St., Chicago, Ill.

CORNELL instructor desires two months' work. Available July 13th. Associate member A.S.C.E. Licensed. Nine years' practical experience. Salary $225. Fred J. Spry, 605 Mitchell Street, Ithaca, N. Y.

ENGINEER or executive, 25 years' experience on design, construction, management. Water works, filter plants, power plants, dams, reservoirs, canals, municipal work. Mem. Am. Soc. C. E. PW-762, Eng. News-Record, 7 So. Dearborn St., Chicago, Ill.

ENGINEER — Seventeen years' railroads, highways, mines and building construction and maintenance; all kinds of surveys and sub-division layouts; location immaterial; age 36 years. PW-813, Engineering News-Record, 10th Ave. at 36th St., New York.

ENGINEER and executive, experienced construction, maintenance, valuation; technical graduate, aged 42, now employed. Railways, highways, contracting, drainage, mining. All around superintendent. Salary $6,000 per year. PW-883, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

ENGINEER-estimator-manager with technical degree and 14 years' structural and architectural experience, invites inquiry from contractor or realtor. Address PW-906, Engineering News-Record, Leader-News Bldg., Cleveland, Ohio.

ENGINEER, widely experienced in design and construction of municipal public works, desires position as city engineer, superintendent waterworks, or connection with large engineering firm engaged in such work. PW-897, Engineering News-Record, Tenth Ave. at 36th St., New York.

GENERAL foreman, 15 years' experience in building bridges, dams, roads, sewers, subways, tunnels, difficult foundations in soft and hard ground. PW-874, Engineering News-Record, Tenth Ave. at 36th St., New York.

M. I. T. graduate, 1923. Desires position in South America with contractor or industrial concern. Native tongue Spanish. PW-884, Engineering News-Record, Tenth Ave. at 36th St., New York.

PROFESSORSHIP in civil engineering. Teaching and practical experience; Western location preferred. PW-909, Engineering News-Record, Tenth Ave. at 36th St., New York.

RAILROAD engineer, experienced designer and draftsman on railroad buildings, estimates, specifications and supervising construction. A. T. Canfield, 2615 Cleveland Ave., Kansas City, Mo.

SPARE TIME WORK WANTED

GRADUATE engineer, 15 years' experience, desires part-time work designing, estimating, or checking plans for minor steel or concrete structures. Draftsman capable of figuring and plotting field notes and making neat tracings also available. PW-830, Engineering News-Record, 7 South Dearborn St., Chicago, Ill.

Contractors Attention

An experienced engineer, with specialized knowledge of concrete bridges, wishes to associate on a participation basis with a reliable energetic firm who can secure the adoption of economic designs and build the same efficiently.

PW-896, Engineering News-Record
Real Estate Trust Bldg., Philadelphia, Pa.

SALESMAN WANTED

Sales Engineer

to sell reinforcing bars to Pennsylvania road contractors. One who has been selling bars, cement or equipment to these contractors will be given preference. Give complete details in first letter as to age, education, experience and salary expected. SW-890, Engineering News-Record, Tenth Ave. at 36th St., New York.

REPRESENTATION WANTED

Concrete Man Wanted

to represent supply house selling form oil, form grease and general concrete supplies. Address P. O. Box 82, Greenville Station, Jersey City, N. J.

REPRESENTATION AVAILABLE

Northern India

Civil Engineer, Assoc. M. Ac. Soc. C. E., is available to represent firms who wish to introduce their products and inventions into Northern India, especially the Kashmere State, and who have no agents in those parts. RA-901, Engineering News-Record, Tenth Ave. at 36th St., New York.

PATENT ATTORNEY

PATENTS—Send for form "Evidence of Conception" to be signed and witnessed. Form fee schedule, information, free. Lancaster and Allwine, 272 Ouray Bldg., Washington, D. C.

BUSINESS OPPORTUNITIES

Inventions Commercialized

on cash or royalty basis. Patented or unpatented. In business twenty-four years. Complete facilities. References. Write Adam Fisher Mfg. Co., 529 Enright, St. Louis, Mo.

Concrete Engineer

for estimating and redesign work to take interest in well-established concrete business. Small amount of capital, but not absolutely essential; state experience. Wm. Ficklen, 410 Bond Bldg., Washington, D. C.

Half Interest

Partner with $50,000 can take half interest in a new invention (perfectly ventilated building), that will enable you to build a perfectly ventilated damp and dust proof smoke and smell resisting home; savings and satisfactions are immense. Pete Jarnowski, 2134 Alice Place, Chicago, Ill.

TRAILERS

Live, aggressive selling force desires agency in East for reliable trailer. At present have agencies for Trench Machines, Backfillers, Shovels, Cranes, etc. Have number of live inquiries.

RA-882, Engineering News-Record
Tenth Ave. at 36th St., New York City

SELLING FORCE

having wide acquaintance among contractors in East desires agencies for CONTRACTORS' EQUIPMENT

McCARRON-RAFTERY & CO.
501 Fifth Ave., New York

High Class

MACHINERY DISTRIBUTORS

visiting Contractors and Industrials in Illinois, Indiana, Michigan and Wisconsin, seek one more connection with reliable concern.

Commission and participation travelling expenses

EPCO, 751 Peoples Gas Building, Chicago

FOR SALE

U. S. ENGINEER OFFICE, P. O. Box 72, Louisville, Ky. Sealed bids will be received here until 2 p.m. Central Time, July 9, 1925 and then opened for sale of Snagboat "E. A. Woodruff," 863 tons displacement, 220 ft. long over all, 48 ft. 1 in. molded beam with a maximum depth of 4 ft. and a molded depth of 7 ft. 6 in. Maximum beam (over wheel sponsons) 72 ft. 6 in. size of propelling wheel 24 ft. diam. by 10 ft. 9 in. wide, 18 in. and 22 in. buckets. Further information on application.

Concrete arch designs efficiently made or checked by experienced specialist

M-818, Engineering News-Record
Real Estate Trust Bldg., Philadelphia, Pa.

FOR SALE

Plant in Pittsburgh District

Consisting of building 157x42 ft., boiler house 30x30 ft. Both buildings are of steel and iron construction. Other buildings, of wood construction, are two 32x24 ft. and one 30x20 ft.

600 ft. of railroad siding and 5 acres of real estate.

Plant can be used for chemical manufacture or adapted to foundry work. Will sell with or without equipment.

Keystone Metals Reduction Co.
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Second-Hand Transits and Levels

Guaranteed in Good Order and Adjustment

Write for New Bargain List

WILLIAMS, BROWN & EARLE, INC.
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Department D

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Satisfaction guaranteed or money refunded. Write for complete list and catalogue of our high grade instruments and supplies for civil engineers, surveyors, mining, builders, contractors, etc.; 40 years' experience in repairing instruments of all makes at reasonable prices. Prompt service.

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Used Transits and Levels

BUFF, 46 Dey St., New York.

Sale—Rent—Repair—Trade
TRANSITS and LEVELS
NEW and USED

Field and office complete equipments. Instrument repairing on all makes. Full line of Buff & Buff instruments.

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313 East 10th, Kansas City, Mo.
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For Rental At $150.00 per Month

Ingersoll-Rand 1300-ft., steam-driven, straight-line, self-contained, two-stage Air Compressor, ideal for Contractors. Overhauled, guaranteed condition. Immediate delivery.

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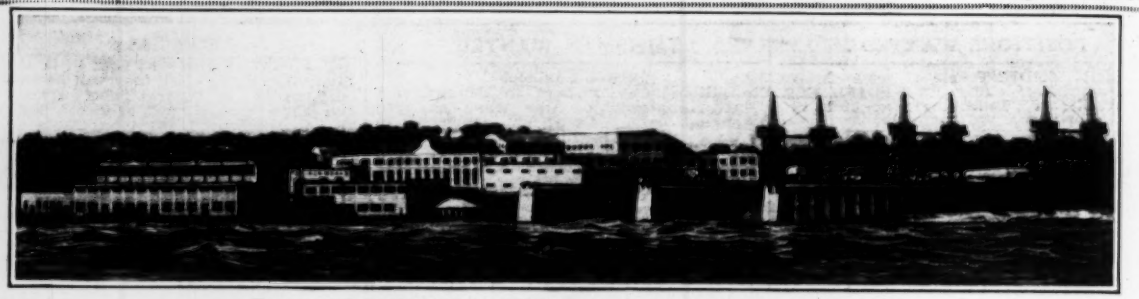
Jersey City, N. J.
Established 1900



Former Plant of **GROTON IRON WORKS** Groton, Conn. (New London)

The above plant has been purchased by us and is offered for sale, including all real estate, buildings, equipment and material. This plant, modern in every respect, was formerly operated by the U. S. Shipping Board Emergency Fleet Corporation. It occupies 34 acres of land with over 1800 ft. frontage on New London Harbor.

Extensive wharves and switch tracks on the N. Y., N. H. & H. R. R. provide unusual shipping facilities. 15 buildings provide in excess of 200,000 sq. ft. of manufacturing space. Equipment is all in surprisingly good condition, owing to the fact that it has had very little use, and an almost endless variety of machinery is available.

Among the principal items are: cranes, overhead gantry; fabricating shop equipment; machine shop equipment; pipe shop equipment; joiner shop equipment; Shepard hoists; transformers, 15 to 667 kva.; motors, 1 to 75 hp.; pneumatic tools; switchboard equipment; rotary converters.

Locomotive Cranes—McMyler Locomotive Cranes, 8 wheel, 15 ton, 45 ft. boom, standard gauge, fully equipped.

GROTON IRON LIQUIDATING CO., Groton (New London), Conn.

WANTED

WANTED

SHOP BUILDING

Second hand steel frame and siding, about 100 by 200.

KING LUMBER CO.
Charlottesville, Va.

Wanted Immediately

Want to buy direct from owners, complete equipment for a large Bridge job, including **Hoists, Derricks, Mixers, Pumps, Caterpillar Shovel, Crane, etc.** Give complete details and prices otherwise no attention.

W-903, Engineering News-Record
7 South Dearborn St., Chicago, Ill.

WANTED TO RENT

Several **Pneumatic Caulking Hammers** and **Pneumatic Back-Fill Rammers.**

CITY WATER & LIGHT DEPARTMENT
Mount Airy, N. C.

WANTED

Dipper Dredge

1—1½-Cubic yard Light Draft, for work on tidewater in Florida.

Address W-843, Engineering News-Record
Real Estate Trust Bldg., Philadelphia, Pa.

FOR RENT
July 1.

20B BUCYRUS STEAM SHOVEL

1—Bucyrus 20 B. high lift revolving steam shovel. Shop No. 4307, caterpillars, ¾-yd. dipper. New January 1925.

Earth and Rock Equip. Co.
Successors to Beck & Babb
29 So. La Salle St., Chicago, Ill.

FOR RENT

Keystone Excavator

Steam power, caterpillar tractor with operator.

F. D. LEFFINGWELL, Montclair, N. J.

FOR SALE

FORD TRACTOR

1—Good condition, also other plant, one-half cost of new.

EASTOVER CONSTRUCTION CO.
Herkimer, N. Y.

LOCOMOTIVE CRANE

FOR SALE OR RENT

1—O & S, 22-ton, 8-wheel, std. ga., 55-ft. boom, 1½-yd. bucket, practically new.

RENNOLDS EQUIPMENT COMPANY
718 Fisher Bldg., Chicago, Ill.

Centrifugal Pumps

6—14-in. Worthington Class B with 300 h.p. Motor.

4—14-in. Allis-Chalmers Type S with 300 h.p. Turbine.

6—16-in. Allis-Chalmers Type S with 300 h.p. Turbine.

Write for complete list of pumps and prices

Nashville Industrial Corporation
Old Hickory, Tennessee

STIRLING BOILERS

12—823 hp. Babcock & Wilcox Stirling Water Tube Boilers, Class M-30, 200 lbs. pressure. Complete with Westinghouse stokers, forced draft fans, Vulcan soot blowers and all accessories. Slightly used and a bargain.

Write for prices and specifications.

NASHVILLE INDUSTRIAL CORPORATION
Old Hickory, Tennessee

BOILER BARGAIN

If sold before removal—150-hp. Scotch Marine. Excellent condition. 150 lbs. working pressure. Complete with 60 ft. good stack and all fittings.

HOWARD W. READ
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TRANSFORMERS

6—Pittsburg Outdoor Type 600 kva., 6600-2200 v., 60 cy., single phase.
3—Westinghouse Outdoor Type, 100 kva., 2400-240-120 v., 60 cy., 2 ph., Type S.

NASHVILLE INDUSTRIAL CORPORATION
Old Hickory, Tennessee

FOR SALE

ELECTRIC HOISTS

1—40-hp. Lambert; 1—60-hp. Lambert; 2—40-hp. Lidgerwoods, single drums, rope speed at drum 600 to 1,000 ft. per minute, 220 v., direct current, in A-1 condition.

H. S. GARDNER, INC.
537 West 20th St., New York, N. Y.
Telephone: Chelsea 9312

FOR SALE
1924 Multi-Foote

PAVER

practically new; full length caterpillar; boom and bucket discharge.

DANIEL KLOCKNER, JR.
280 Passaic St., Newark, N. J.

STEAM SHOVELS

FOR SALE OR RENT

1—¾-yd. Type B, Erie on caterpillars, High lift, 16-ft. Dipper Stick Serial No. 15661, New 1921.
1—¾-yd. Type B, Erie on caterpillars, High lift, Serial No. 1769, New 1922.
2—¾-yd. Type B, Erie on Traction Wheels, High lift, Serial Nos. 805 and 1254, New 1920.
1—¾-yd. A1 Thew on Traction Wheels, Serial No. 1428, New 1918.
1—No. 4 Keystone Excavator with Trench Bucket and Skimmer Scoop, Serial No. 4296, New 1922.

T. H. LETSON CO.
50 Church St., New York

CHAS. KRISER, *Auctioneer*

Announces Absolute Auction Sale of

Woodworking and Ironworking Machinery Equipment, Supplies and Real Estate

of the formerly

PENDLETON SHIP YARD

on Tuesday, June 30, 1925, at 12.30 P. M. (Daylight Saving) on the premises at

MYSTIC, CONN.

Hilles & Jones No. 1½ Punch and Shear 36-in. Throat, Hilles & Jones Flanger 12-ft., 12-in., 14-in., 16-in. and 20-in. Drill Presses. Chambersburg 1500 lb. Single Frame Steam Hammer, Adt & Shuster Riveters, Forges, Air Compressors, Wet Grinders, 40 Pneumatic Drills. Little David and Little Giant and Air Hammers—Arbor Presses to No. 5. Acme 1-in. Bolt Cutter.

WOODWORKING MACHINERY CONSISTS OF 8-in.—4 Side Inside Moulder, Fay & Egan 7-ft. Swing Saw, Egan & Witherby Single Borers, 24-in. Invincible 3-drum Sander, 1—No. 361 Fay & Egan Band Saw Mill with log carriage and equipment, 1 Witherbee Wood Turning Lathe, Woods 24-in. Single Head Planer, 1 Fay & Egan No. 290 Timber Dresser. 1—48-in. Atlantic Works Bevel Ship Band Saw with Lumber Rollers. Rogers 1 and 2 spindle Variety Shapers.

1—Fay & Egan No. 311 Ball Bearing Bevel Ship Band Saw. 15—New Dean, Worthington, Hyde & Buffalo Double Action Pumps. 10—New Titan & Brandingham Double Action Steam Winches. 100,000 ft. of Lumber up to 28-in. x 28-in. x 120-ft. long. 50,000 oak Trenails. 9000 New Blocks up to 20-in., one, two and three sheaves. 2800 lbs. Lignum Vitae in logs.

Motors up to 75 hp., 3 ph., 60 cy., Tanks, Belting, Pulleys, Shafting, Hangers, Rope, Hardware. 150 tons Heavy Chain, 150 tons Spikes 5 to 14-in. long. Benches and Vises and Miscellaneous Tools, Desks, Typewriters, etc.

STEAMER FULLY EQUIPPED, only 5 years old, 1500 gross tons. 2 New Lidgerwood Double Acting Compound Towing Engines, 12 x 14 single drum, Serial Nos. 637 and 638.

The Shipyard is located a few miles from New London, Conn.
Trains leave Grand Central Station, New York City, via N. Y., N. H. & H. Railroad 8.35 A. M. (Daylight Saving Time) and arrive at Mystic, Conn., 12 o'clock noon (Daylight Saving Time.)

Write for Catalogue Now! !

Sale under management of

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National Liquidators

25 Church Street, New York City

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Atlantic Tar & Chemical Co., Ltd.

BAYWAY (ELIZABETH) N. J.

Wednesday, July 8, 1925 at 11 A.M. (D. S. T.)

Valuation Over One Million Dollars

Complete Plant for Manufacture of Coal Tar Products Comprising:—

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Herbert "Action" Segal, Auctr., Newark, N. J.

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Railroad—Contractors and Industrial

Locomotives, in 4-ft. 8½-in. gauge, 36-in. ga., 30-in. ga., and 24-in. ga. in all weights and types from 3 tons to 263 tons. (Steam and Gasoline).
6—**Passenger Coaches,** Steel Platforms and Draft Rigging.
2—**Combination,** Passenger and Baggage Cars.
1—**Combination,** Mail and Baggage Car. Steel Underframe.
3—**Steam Shovels,** Standard Railroad.
5—**Locomotive Cranes**—Standard Gauge, Caterpillar and Road Wheel.
Dump Cars—4-ft. 8½-in. gauge, 36-in. ga., 30-in. ga., and 24-in. ga.
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Rail; 2500 tons of 100 lb., 2000 tons 75 lb., 300 tons 67 lb., 500 tons 40 lb., etc.
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Ry. and Power Bldg., Richmond, Va.

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4—No. 248 Leyner-Ingersoll Drifters fitted for 1¼-in. Hollow Round Steel, 24-in. feed, equipped with A-86 Tripods complete with 3 "C" weights.
1—Ingersoll-Sergeant Type F194 Steam Drill. Used only a short time.
1—Ingersoll-Rand Type 10H Little Tugger Air Hoist.
8—Ingersoll-Rand Type 1H Little Tugger Air Hoists.
7—3-ton Jinniwinks—Booms 8x8x25 ft.—Sills 6x8x15 ft.—Legs 6x8x15 ft.—Back 6x8x10 ft.
2—50-hp. Crocker-Wheeler Slip Ring Motors, 3 ph., 60 cy., 220 v., 700 r.p.m., with reversing controllers.
2—Ingersoll-Rand Imperial Type 10 Steam Air Compressors, 2 stage direct connected Corliss engine driven operating at 140 r.p.m. with capacity 2381 cu. ft. air per minute.

J. V. W. REYNDERS, 120 Broadway, New York City
TELEPHONE RECTOR 3073

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Construction WE BUY—SELL—TRADE—RENT Equipment

CRANES

1—O & S Trac. Wheel, 30 ft. Boom.
1—Erie "B" 32 ft. Boom ¾-yd. Williams bucket.
2—O & S 22-Ton, 55-ft. Booms, with 1½-yd. Buckets.

SHOVELS

1—Northwest 105 with Dragline attachments.
2—Marion, Mds. 21 and 31, full Cat.
10—Bucyrus, R.R. Trucks, Caterpillar and Traction Wheels, from ¾ to 4-yd. cap.
8—Marion R.R. Trucks, Caterpillar and Traction Wheels, from ¾ to 4-yd. cap.
1—Type "B" Erie, High Lift Boom.
1—Model 4 Keystone Excavator.
2—Type "O" Thew, Horizontal Crowding booms on trac. wheels. No reasonable offer refused.

BUCKETS

1—1-yd. Hayward Clam Shell.
1—½-yd. Owen with teeth.
20—Controllable Bottom Dump.

PAVERS AND MIXERS

1—Foote Paver 16-E Steam Power.
3—Koehring Bldg. Mixers, 21-S Steam Power.
1—Rex 21-S Steam Power, Bldg. type.

PUMPS

1—Dean Hor. Duplex, size 10x7x12.
1—Morris Cent. Sand, 12x12, Belt Drive.
1—Morris 4 in. Cent. Water Pump, Steam Eng.
1—Morris 6 in. Cent. Sand Pump, Steam Eng.
1—No. 7 Pulsometer Pump.
4—Brand new Aldrich, Triplex, 3½x4, equipped with 15 hp. 4-cylinder LeRoi Motors.

PILING HAMMERS

1—No. 5 Vulcan Sheeting, rebuilt.
2—No. 9 McKiernan-Terry Steam.
3—Drop Hammers.
1—No. 7 McKiernan Terry.

CRUSHER

1—Gates No. 5.

BOILER

1—80-hp. Loco. Type, Butt Strapped Joint.

AIR COMPRESSORS

1—Fairbanks-Morse 8x8 belt drive with 20 hp. A.C. Motor.
1—Gardner 6x6 Duplex on trucks, with tank and A.C. Motor.
2—Chicago Oil Driven on Trucks, cap., 212-ft.

HOISTING ENGINES

4—8¼x10 D/C D/D's with and without Boilers.
1—Mundy 8x12 3-Drum with Boiler.
9—7x10 D/D's Am. Le. Lidg. Mundy
1—8¼x10 3/D Stroudsburg.
1—7x10 3/D Stroudsburg.

CARS

20—Std. Ga. Western 12-yd. Air Dump.
10—24 Ga. Western Steel Flat.

LOCOMOTIVES

2—24 Ga. Plymouth Gas Power
1—21-ton Davenport Saddle Tank, Std. Ga.
1—42-ton Shay Geared.
4—6-ton 24-in. Ga. Whitcomb Gas.
Also 4 Std. Ga. ranging from 20 to 50 tons.

DRAG LINES

5—Monighan Models 1-T, 2½ and 3-S.
2—Bucyrus Class 14 and 24.

ROAD AND PAVING EQUIPMENT

1—Dunn 18 ft. Finishing Machine.
2—Holt caterpillar tractors, 5 ton.
3—Miles of 24 Ga. Portable Track.
4—Rollers 3 to 10 ton.
16000 lin. ft. of 2-in. Pipe.
1—Adams Leaning Wheel 10 ft. Blade Grader.
1—Austin 7 ft. Blade Grader.
8—2½ Western 2 Wheel Scrapers.
4—Baker 4-wheel Maney Scrapers.
1—18-ft. Lakewood Finishing Machine.
1—100-ton Johnson All Steel Hopper.
2000 Lin. ft. Blaw Knox 9-in. Road Forms.

DERRICKS

1—Wood Stiff Leg, 60-ft. boom.
2—Wood Stiff Legs, 60-ft. booms, bucket handling.
4—Steel Guy, 115-ft. masts, 100-ft. booms, cap., 15 tons.
1—Insley Steel, 10-ft. Guy.
1—Steel Stiff Leg, 100-ft. boom, cap., 7 tons.
20—Others ranging from 3 to 20 tons.

TRENCHING MACHINES

1—Parsons Cat. will dig 16-ft. deep.
1—Buckeye Ditcher Wheel Type, cap., 6-ft.
1—"00" Austin Cat., cap., 15-ft.

CONCRETE SPOUTING & TOWERS

1—Insley 120-ft. Steel Tower, with 24-ft. Bucket and Hopper, and 140-ft. of Spouting.
We have several Insley & Lakewood Towers; also miscellaneous lot of Spouting, Buckets and Hoppers, for Wood Towers.

If you don't find listed what you need write us. We have a complete line of equipment.

RENNOLDS EQUIPMENT CO.

718 FISHER BLDG.
CHICAGO, ILL.
PHONE: RANDOLPH 4134

CLAPP, RILEY & HALL EQUIPMENT CO.

12 AND 14 SOUTH CANAL STREET

CHICAGO

GUARANTEED EQUIPMENT—FOR SALE or RENT

All equipment overhauled in our shop is furnished in guaranteed condition, subject to thirty days' trial in service.

STEAM SHOVELS

2—Type B Erie. Shop Nos. 1219 and 143, mounted on traction wheels, ¾-yd. dipper.
1—Type O Thew. Shop No. 1777, extra high lift, 2-3-yd. dipper, traction wheels.
1—18B Bucyrus. Shop No. 1870, traction wheels, ⅞-yd. dipper.
1—45-C Bucyrus. Shop No. 1202. Railroad type, 1¾-yd. dipper.
2—70-C Bucyrus. Shop Nos. 1195 and 1197, 2½-yd. dippers.
3—70-ton Bucyrus. Shop Nos. 939, 977 and 1233, 2½-yd. dippers.
2—60-C Bucyrus. Shop Nos. 1286 and 1388, 2½-yd.
2—Model 60 Marion. Shop Nos. 1301 and 2238, 2½-yd. dippers.
1—Model 75 Marion. Shop No. 2112, 2½-yd. or 4-yd. dipper.
1—Model 80 Marion. Shop No. 1312, 4-yd.
1—95-C Bucyrus. Shop No. 1235, 4-yd. or 5-yd. dipper.

STEAM SHOVEL PARTS

1—Boom for Marion 60 or 61 Shovel, length 35-ft., 22-ft. dipper arm, 1½-dipper, long jack arms, etc.

SIDE DUMP CARS

26—16-yd. Western Air Dump Cars.
23—12-yd. Western Air Dump Cars, 19-ft. beds, box girder doors.
31—12-yd. Western Air Dump Cars, 19-ft. beds, box girder doors, vertical dump cylinders, 60,000 lb. capacity trucks.
37—12-yd. Western Air Dump Cars, Truss-rod doors, 26-ft. beds.
4—12-yd. Oliver Hand Dump Cars.
12—8-yd. Western, 36-in. gauge, double truck cars.
19—5-yd. K. & J. 36-in. gauge, steel draw sills and steel lined wood beds.
8—4-yd. K. & J. 36-in. gauge, steel draw sills, box girder doors.
7—4-yd. Western, 36-in. gauge, steel beam cars.
42—4-yd. Western 36-in. Gauge Cars.
8—4-yd. Continental 36-in. Gauge Cars.

SPREADER CARS

1—Std. gauge 100,000 lb. capacity Jordan Air Spreader. Shop No. 503.
1—36-in. gauge Oliver Spreader Car.
1—36-in. gauge Western Spreader Car.

LOCOMOTIVES—Standard Gauge

1—19x26 Baldwin 6-wheeled Switcher, with tender. Shop No. 48215. New 1918. Weight 62 tons. 180 lb. steam pressure.
1—19x24 Baldwin 6-wheeled Saddle Tank. Shop No. 49553, built 1918. Weight 67 tons, air brakes, 180 lbs. steam pressure.
1—18x24 Brooks 6-wheeled Switcher, with tender. Shop No. 1778. Weight 50 tons.
1—17x24 Davenport 6-wheeled Switcher, with tender. Shop No. 1268. Steam pressure 180 lbs. Weight, 47 tons.
1—17x24 Schenectady 6-wheeled Switcher, with tender. Shop No. 2956. Weight, 44 tons.
1—16x24 Porter 6-wheeled Saddle Tank. Shop No. 6065. Built 1918. Weight, 56 tons. 180 lbs. steam pressure.
1—16x24 Vulcan 4-wheeled Switcher, with tender. Shop No. 1764. Steam pressure 180 lbs. Weight, 40 tons.
1—16x24 Davenport 4-wheeled Switcher, with tender. Shop No. 860. Steam pressure, 170 lbs. Weight, 38 tons.
1—16x22 C. M. & St. P. Ry., Class J-2, 4-wheeled Switcher. Weight, 32 tons.
1—11x16 Davenport 4-wheeled Saddle Tank Locomotive. Shop No. 1027. Weight, 20 tons. Steam brakes.

36-in. Gauge

2—11x16 Davenport Dinkies. Shop Nos. 2020 and 2027. New in 1925, used six weeks. Weight, 21 tons.
1—11x16-in. Vulcan Dinkey. Weight, 21 tons. New in 1922.
1—11x16-in. Davenport Dinkey. Shop No. 710. Weight, 20 tons.
2—10x16-in. Davenport Dinkies. Shop Nos. 1400 and 1417. Weight, 19 tons.
4—10x16 Porter, 4-wheeled. Weight, 18 tons.
1—10x16 Vulcan, 4-wheeled. Weight, 18 tons.
1—9x14 Vulcan Dinkey. Shop No. 1675. Weight, 14 tons.
2—7x10 Davenport, 4-wheeled, saddle tanks.

24-in Gauge

2—7x12 Davenport Dinkies. Shop Nos. 1411 and 1524. Weight, 9 tons.
1—6x10 Davenport Side Tank Dinkey. Shop No. 1307. Weight, 7 tons.

DRAGLINE EXCAVATORS

3—Class 24 Bucyrus Steam. Shop Nos. 3445, 3500 and 3671, skids and rollers, 85-ft. to 100-ft. booms; 3½, 4½ or 5-yd. Page buckets.
1—Class 20 Bucyrus, steam. Shop No. 813, skids, 85-ft. boom, 3-yd. Page bucket.
2—Class 14 Bucyrus, steam operated, either coal or oil burner. Shop Nos. 748 and 3706, caterpillars, 60-ft. booms, 2-yd. Page buckets.
1—Model 210 P & H, gasoline. Shop No. 1077. New 1920, 40-ft. boom, 1¼-yd. Page bucket, caterpillars.

CRANES

2—Type "B" Erie Cranes. Shop Nos. 1064 and 1219. 32-ft. and 36-ft. boom, bucket-operating drums, ¾-yd. Williams clam shell.
1—10-ton Industrial, 4-wheeled. Shop No. 1989. 40-ft. boom, bucket operating.
1—20-ton McMyler, 8-wheeled. Shop No. 388, 45-ft. boom, 1¼-yd. O & S clam.
1—Gantry Crane. New in 1919: 40-ft. boom, 15-ton cap., at 18-ft. radius; 7-ft. 10½-in. gauge, 12-ft. wheelbase, self-propelling. Base of boom 17-ft. above track. Bucket-operating drums. Weight, 50 tons.

MISCELLANEOUS

1—8-ft. Austin Giant Road Grader.
1—6x10 D.C., D.D. Lidgerwood Hoist, with 36x90-in. boiler.
1—6½x10 D.C., D.D. American Hoist, with butt strapped boiler.
1—7x10 D.C., D.D. Lambert Hoist, without boiler.
1—7x10 D.C., D.D. Flory Hoist, without boiler.
2—1½-yd. Page Dragline Buckets.
1—1½-yd. Brown Hoist Clam Shell.
4—Mead-Morrison 1½-yd. Clam Shells.
2—1¼-yd. O. & S. Coal Loading Clam Shells.

PITTSBURGH, PA., OFFICE

Beck, Riley & Hall Equipment Co., 458 Union Trust Building

STEAM SHOVELS

1—Model 29, Osgood Shop No. 1170 on caterpillar mounting, ⅞-yard dipper.
1—14-B Bucyrus Shop No. 0000, on traction wheels, ⅝-yd. dipper.
1—Standard Type "B," Erie Shop No. 206, on traction wheels, ¾-yd. dipper.
3—Model 28, Marion Shop No. 3134, 3137, 3229, on traction wheels, ⅝-yd. dipper.
4—Model 60, Marion Shop, No. 1995, 1999, 2059, 2372, railroad type, 2½-yd. dipper.
1—70-ton Bucyrus Shop No. 0000, railroad type, 2½-yard dipper.

STEAM SHOVEL PARTS

1—19-ft. 6-in. boom, 12-ft. sticks and ditcher bucket for Type B Erie Shovel.
1—22-ft. dipper stick for Type B, Erie Shovel.

SIDE DUMP CARS

24—4-yard Western, 36-in. gauge.
8—K. & J. 4-yd., 36-in. gauge.
8—2-yard Western, 36-in. gauge.
10—6-yd. K. & J. Std. gauge.

SPREADER CAR

1—Std. gauge Western Spreader Car.

LOCOMOTIVES, 36-in. Gauge

2—10x16 Vulcan, 4-wheel Saddle Tank, Shop No. 3266 and 1394.
4—10x16 Porter, 4-wheel, Saddle Tank.
2—7x12 Davenport, 4-wheel, Saddle Tank, Shop No. 1566 and 1567.

LOCOMOTIVE CRANES

2—Type B McMyler 23-ton capacity, with 50-ft. boom, one with 20-ft. extension, Shop No. BC-2015 and BC-2108, Serial No. 3239 and 3263, 8-wheel MCB trucks, A.S.M.E. boiler.
1—Type J McMyler, 35-ton capacity, with 70-ft. boom, Shop No. BC-2376, Serial No. 3312, 8-wheel MCB trucks, A.S.M.E. boiler.

RAILROAD DITCHERS

1—American Railroad Ditcher, No. 459.
1—Type B Erie Railroad Ditcher No. 2485, with 36-ft. boom and clamshell equipment, including bucket.

CLAMSHELL BUCKETS

1—1½-yd. Williams **Favorite** No. 3508.
4—¾-yd. Williams **Hercules.**
1—¾-yd. Williams **Favorite.**
1—¾-yd. Erie **Peerless.**

MISCELLANEOUS

1—Lambert 8½x10 Double Drum with boiler.
3—8½-in. Westinghouse Cross Compound Air Compressors.
2—9½-in. Westinghouse Single Compressors.
1—11-in. Westinghouse Single Compressors.
42—No. 8 Milburn Carbide Lights, 8,000 Candle Power.
7—No. 12 Milburn Carbide Lights, 12,000 Candle Power.
24—Milburn **Reliance**, Carbide Lights, 1000 Candle Power.
12—Milburn **Builders** Carbide Lights, 500 Candle Power.
1—No. 80 **Buhl** Portable Air Compressor.
1—No. 55 **Buhl** Portable Air Compressor.

FOR SALE OR RENT

STEAM SHOVELS

1—70-C Bucyrus. Shop No. 1749. Standard gauge, railroad, 2½-yd. dipper.

1—18B Bucyrus, revolving. Shop No. 1764. Traction wheels, ⅞-yd. dipper.

1—Type B Erie Revolving Steam Shovel, traction wheels, standard boom, ¾-yd. dipper.

1—Model 212 Marion (revolving), Shop No. 4620, New Sept. 1923, mounted on trucks, 55-ft. boom, 34-ft. dipper stick, 1¾-yd. dipper.

1—Model 28 Marion, standard revolving, Shop No. 2804, traction wheels, ⅝-yd. dipper.

LOCOMOTIVE

1—Type 060 Brooks, 40-ton, 6-wheel Switcher, standard gauge, sloping tender.

DRAGLINES

1—Class 210 P & H Gasoline, No. 1349, on caterpillars, 76-hp. Twin City Engine, 48-ft. boom, 1-yd. bucket.

1—Page oil driven, mounted on trucks, 100-hp. twin cylinder, Charter Engine, 72-ft. boom, 2½-yd. Page bucket.

1—Class 14 Bucyrus, steam operated, on caterpillars, 60-ft. boom, 2-yd. Page bucket. (New July, 1922).

1—Class 24 Bucyrus, steam operated, skids and rollers, 100-ft. boom, 3½-yd. bucket.

1—Monighan 2-T Walker. Oil driven, 60-ft. boom, 2 cu. yd. bucket.

1—No. 2 Monighan, steam operated, skids and rollers, 70-ft. boom, 2-yd. bucket.

1—No. 2 Monighan, steam operated, skids and rollers, 80-ft. boom, 2-yd. bucket.

CRANE

1—Northwest Model 105 gasoline. Standard caterpillar, 40-ft. boom, 1-yd. clam shell bucket.

TRACTORS

7—5-ton Holt Caterpillars.
(These tractors have never been used except for small amount of demonstrating.)

CYCLONE DRILLS

2—No. 14 Junior Gasoline Traction Big Blast Hole Drills. 5-in. bits. Late machines.

MISCELLANEOUS

1—¾-yd. dipper complete for Model 18 Osgood Shovel.

The above list is constantly changing. No matter what your machinery requirements are, write us—we may have it.

EARTH & ROCK EQUIPMENT CO., *Successors to* BECK & BABB **29 So. La Salle St., Chicago, Il.**

Direct Connected Generator Set

1—Bullock 265 K.V.A. Alternating Current Generator Set, 220 v., 60 cy., 3 ph., 383 amp. at 150 r.p.m. direct connected to Buckeye High Speed Engine, 18x24, complete with oiling system, 9½ K.V.A. General Electric Exciter, switchboard, instruments, switches and rheostat.

Nashville Industrial Corporation
Old Hickory, Tennessee

PULSOMETER

Save money in 1925. Rent these famous steam pumps NEW, direct from factory, backed by our service. Charges no higher. Eventually own one by our payment plan. Several 8 in. sizes ready for spot delivery, COMPLETELY equipped, ready for service. 'Phone or wire!

PULSOMETER

PULSOMETER STEAM PUMP CO., 221 West 41st St., New York City

LOCOMOTIVE

47-ton Std. Gauge Baldwin 4 Driver Saddle Tank, 44-in. drivers, 165 lb. steam pressure, steam brakes, straight and automatic air, electric headlights. Overhauled. First-class. Ready to ship from Chicago.

HYMAN-MICHAELS COMPANY
Peoples Gas Bldg., CHICAGO, ILLINOIS. Railway Exchange Bldg., ST. LOUIS, MISSOURI.

Gasoline Crawler Crane

1—P. & H. Serial No. 1602. Used but 5 months. 38 ft. Boom, arranged for Clamshell or Dragline work.
Also 21E Koehring Paver—Hoists, Derricks, Scows—Dredges.

T. H. LETSON CO.
50 Church St., New York

ROAD BUILDERS' PLANT

FOR SALE

Road-Rollers; Pavers; Shovels; Keystone Excavators; Locomotives; Track; Dump and Flat Cars; Hoists; Cranes; Graders; Finishers.

All necessary Equipment for complete plant.

JOHN M. GREENE
430 Chestnut Street, Philadelphia, Pa.

Centrifugal Pumps

FOR SALE OR RENTAL

Immediate Delivery

14-in. Jeansville, with extension base, direct driven by 8-in.x8-in. Sturtevant Vertical Engine, capacity 5400 gallons, 15-foot head.

12-in. Dayton-Dix, with coupling for direct connection, capacity 3,000 gallons, 15-foot head. Bronze impellor.

10-in. Ames, Bronze Impellors, direct driven by Ames Vertical Engines, capacity 2,000 gallons, 18-foot head.

8-in. Kingsford Open Impellor, direct driven by vertical engine. Capacity 1,300 gallons, 15-foot head.

6-in. Morris, open impellor, direct driven by vertical engine. Capacity, 1,000 gallons, 15-foot head.

6-in. Wickes, open impellor, direct driven by vertical engine. Capacity, 1,000 gallons, 15-foot head.

6-in. Fulton, open impellor, direct driven by vertical engine. Capacity 1,000 gallons, 15-foot head.

5-in. Lawrence, open impellor, direct driven by "Dake" steam motor. Capacity 700 gallons.

4-in. Platt, closed impellor, direct driven by 7½ Hp. 220/440/500 volt, 3 phase, 60 cycle motor. Capacity 500 gallons, 30-foot head.

3-in. Morris, three stage, brass impellors, with base for direct connection to motor. Capacity 200 gallons, 250-foot head.

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Send for our monthly list of the largest stock in the United States of slightly used and thoroughly overhauled MACHINE TOOLS, POWER, ELECTRICAL AND CONTRACTOR'S EQUIPMENT.

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Jersey City, N. J.
Established 1900

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100—80,000 lb. capacity, std. gauge. All new woodwork. 41 ft. long.

60—80,000 lb. capacity, std. gauge. Steel draft arms. 36 ft. long.

35—100,000 lb. capacity, std. gauge. Steel underframe. 40 ft. long.

GONDOLAS

200—80,000 lb. capacity, std. gauge. Steel draft arms. 36 ft. long.

75—100,000 lb. capacity, std. gauge. Steel underframe. 40 ft. long.

35—100,000 lb. capacity, std. gauge. All steel self clearing hoppers. New bodies 1923.

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35—60,000 lb. capacity, std. gauge. 37 ft. long. Steel center sills.

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Locomotives, Locomotive Cranes, Steam Shovels and Draglines ready for prompt shipment.

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In A-1 Condition

RELAYING RAILS

25 tons 30 lb. with splice bars
100 tons 80 lb. with splice bars
150 tons 90 lb. with splice bars
200 tons 100 lb. with splice bars
10,000 ft. 24 in. gauge, 20 lb. portable track.

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1—Stickle 400 B.H.P. No. 4 Open Coil Feed Water Heater and Purifier complete.

1—American 400 B.H.P. No. 18 Feed Water Heater, complete.

3—Warren Webster Open Type Feed Water Heaters, 11,000 B.H.P. capacity each.

Nashville Industrial Corporation
Old Hickory, Tennessee

"WE BUY—REBUILD—SELL OR RENT"

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1—15-ton O & S, 8-wheel M. C. B., 40-ft. boom, bucket operating.

1—Brownhoist Combination Crane and Dragline, 40-ft. boom, ¾-yd. bucket, caterpillar, steam.

1—O & S 7-ton Crane, 30-ft. boom, ¾-yd. clamshell bucket, traction wheels.

1—Byers Auto Crane, 30-ft. boom, ¾-yd. bucket, traction wheels, steam.

CONCRETE MIXERS

43—Concrete Mixers, sizes 56-S, cap. 2-yd.; 28-S, cap. 1-yd.; 21-S, cap. ¾-yd.; 14-S, cap. ½-yd., and 10-S, cap. 1⅜-yd. With steam or electric power with side loaders or batch hoppers. Following makes: Marsh-Capron, Koehring, Milwaukee, Ransome, Smith, Smith-Chicago, Rex, Lakewood, Foote, Cube or Oshkosh.

38—7-S, cap. 1 bag, with low charging platforms, with gasoline engines.

STEAM HOISTS

12—Three-Drum Hoists, with or without boilers. Sizes, 9x12, 9x10, 8¼x10, and 7x10, with separate swingers for derrick work. All makes.

60—Two Drum Hoists, with or without boilers. Sizes, 12x12, 10x12, 9x10, 8¼x10, 7x10, 6¼x10, 6x8, and 5x8. Can be equipped with holding drum for bucket work.

SPECIAL

STEAM SHOVELS

2—78C late '23 models, 30-ft. boom, 19-ft. dipper stick, 3-yd. dipper, one on railroad trucks, one on caterpillars.

1—50B Bucyrus full revolving on caterpillars, 26-ft. boom, 17-ft. dipper stick, 1¾-yd. dipper, new November, 1923.

LOCOMOTIVES

3—Porter 36-in. ga., 18 ton, saddle tank, 10x16 cylinders, rebuilt like new. Nos. 4619, 4667, 6804.

1—Davenport std. ga., 20 ton, 10x16 cylinders, saddle tank. No. 1747.

6—Porter std. ga., saddle tank, 14x22 cylinders, weight 42 tons, like new, only one year of service, shop Nos. 6768, 6769, 6770, 6771, 6772 and 6773.

3—7 ton, 24-in. ga., Plymouth, gasoline.

4—3 ton, 24-in. ga., gasoline, 2—Plymouth, 1—Whitcomb and 1—Fordson.

CARS

12—36-in. ga. Continental, 4 yd., heavy duty, rebuilt like new.

15—Lakewood 24-in. ga., V shape, 1½ yd., all steel Dump Cars.

30—24-in. ga. Flat Cars, and 144 batch boxes with same, capacity 25 cu. ft., and 37 cu. ft.

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3—American double drum with attached swinging gear, 37 hp., 440 v., 60 cy., 3 ph.

2—52-hp. Lidgerwoods, double drum, 220 v., 60 cy., 3 ph., with swingers.

1—Same as above, single drum, high speed.

1—50-hp. Mead-Morrison double drum Electric Hoist, 50-hp., 60-cycle, 3-phase, either 440 or 220 volt motor.

STIFF LEG DERRICKS

Large number of practically new American Hoist & Derrick Co. Stiff Leg Derricks, mast 16x16x40-ft., boom 14x14x80-ft., trussed, stiff leg 14x14x55-ft. or 60-ft., bull wheel steel 16-ft. in diameter. We can furnish these either single line or bucket handling, complete with all fittings, or will sell complete set of fittings separate.
Several Steel Stiff Leg Derricks.

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1—Dobbie Steel Guy Derrick, 70-ft. mast, 60-ft. boom, capacity 10 tons.

1—American 16x16x74-ft. boom, 82-ft. mast, (wood), bucket operating.

Also large number of Guy Derricks ranging in size from 12x12x40-ft. boom to 14x14x80-ft. boom, with mast to correspond.

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Steam, Electric and Gasoline

SHEAVES—New A. H. & D. Co. metal bushed.
LATHES—LeBlond Heavy Duty Q.C. Engine, 19x8, hollow spindle. $250 each.
PUMPS—Brand new Scranton 6x5¾x6, $75 each.

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FOR SALE

Hoisting Engine

1—New Stroudsburg, 6½x10 in. Double Cylinder Triple friction Hoisting Engine with oversize boiler (38x90) to pass Massachusetts Inspection, $1,000.

Buckets

1—New ¾-yd. Multiple Rope Bucket, $400.

1—New 1-yd. Multiple Rope Bucket, $475.

This equipment guaranteed to be in first-class condition.

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"DECO" Rebuilt, means as good as new!

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2—25-ton Industrials, 50-boom A-1.
* 1—30-ton Ohio, 50-ft. boom.
1—25-40-ton Brownhoist, 75-ft. boom, electric.
1—25-35-ton McMyler, 50-80-ft. boom.
2—8-ton Osgood, 40-ft. boom.
* 1—25-ton Browning, 50-ft. boom.
1—20-ton Brownhoist, 8-whl., bucket operating.
* 1—20-ton Browning, 8-wheel, 50-ft. boom.
1—12-ton Osgood, 40-ft. boom.
* 1—15-20-ton Ohio, 50-ft. boom.

LOCOMOTIVES

2—50-ton, 6-wheel switchers.
18-20-ton Vulcan and Porter, 36-in. gauge.
*21-30, 40-ton Vulcan American, Std. gage, S. T.
*25-ton Baldwin, Gasoline, standard gage.
6-ton, 24 and 36-in. gage Dinkies.

DRAGLINES

2—Class 24 Bucyrus, 100-ft. booms.
1—3-T Monighan Walker, 75-ft. boom.
1—Class 9½ Bucyrus, 75-ft. boom.
1—Class 7 Bucyrus.

STEAM SHOVELS

¾-yd. Erie Traction and Caterpillar.
1, 1½, 1¾ Marion Caterpillar.
6—¾-yd. Osgood, Thew, Marion.

DUMP CARS

1½, 4, 6, 12, 16, 20, 30-yd. capacity 5 and 10-ton CATERPILLAR TRACTORS—SPREADER CARS.

"DECO" Rebuilt Equipment

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ROAD PLANT

1—14E **Rex Paver**, steam driven.
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1—¾-yd. **Osgood Traction Shovel**, A.S.M.E. Boiler.
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1—No. 4 **Keystone Excavator**, with skimmer scoop and A.S.M.E. boiler.
1—7-S Knickerbocker **Concrete Mixer**, with low charging hopper and 8 hp. Le Roi gasoline engine.
1—14-S Standard **Concrete Mixer**, with low charging hopper and 10 hp. electric motor.
1—15-hp. Ludgerwood Utility single drum **Gasoline Hoist**, with LeRoi engine.
1—4-in. Barnes Single **Diaphragm Pump**, with 2½-hp. Hercules Gasoline Engine.

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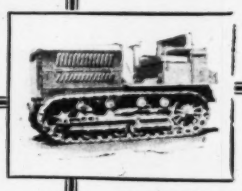

7—Five Ton Tractors

These tractors have never been used except for a small amount of demonstrating. They are offered in first class operating condition at a remarkably low price.

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4—125-hp. Ames Empire. Built 1922. A.S.M.E. and Mass. Std. 125 lbs. working pressure. Excellent condition.

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ROAD ROLLERS

One BUFFALO-PITTS Three Wheel, Ten Ton Road Roller. Good Working Condition. Also KELLY-SPRINGFIELD Three Wheel Ten Ton Road Roller. Like new. For location, price, other particulars.

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SMITH PAVING MIXER

21-E steam power half caterpillar, boom and bucket, batchmeter. First class condition. Ready to work. Price $1500.

FS-853, Engineering News-Record
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1—360 ft. Chicago-Pneu. NSBE with motor.
1—534 ft. Chicago-Pneu. NSBE with motor.
1—600 ft. Blaisdell, with motor.
3—788 ft. Chicago-Pneu. OCB with motor.
2—800 ft. Ing.-Rand CB-2 with 150 hp. motors.
1—800 ft. Ing.-Rand RB with 150 hp. motors.
2—1302 ft. Ing.-R. PRE-2 dir. con. 2200-60-2 or 3.
1—3864 ft. Ing.-R. PRE-2 dir. con. 2200-60-2 or 3.
2—5000 ft. Centrifugal Compressors, 2.5 ft. pressure, direct connected to 75 hp. motor, 220 v., 60 cy., 3 ph.
(New TRAYLOR compressors)

HOISTS

8¼x10 DCDD Clyde with B. and Sw.
45 HP DD CLYDE with Sw., 220 volt DC.
200 HP DD OTTUMWA shaft hoist with motor.
100 HP SD CLYDE shaft hoist with motor.
65 HP DD CLYDE with Sw., 220 volt DC.
5 and 8 ton Westinghouse-Baldwin trolley locomotives, 220 volt DC, 36 to 42 in. gauge.

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Powerful Six-ton Caterpillar

An exceptional purchase of tractors and spare parts enables us to offer them subject prior sale, for $1500.

These tractors must be seen to be appreciated. Every contractor who inspects them purchases one or more.

The Sales Corporation
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For Sale at Sacrifice Price

300,000 lbs. Fairbanks, with type registering beam. 12 ft. x 6 in. x 56 ft. platform. Complete with structural steel, live rail stands and dead rail blocks.

Worth about $4,000.00 Will sell for $1,250.00, F.O.B. cars Aetna, Indiana.

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TANKS
GENERATOR SETS

Many other items
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Alexandria, Virginia
Desk E.

Buckeye No. 4 Excavator

For one who considers the purchase of a machine of this type here is without a question of doubt an exceptional opportunity. This equipment has been rebuilt by its maker from stem to stern and nothing spared to put in "as good as new" condition. For quick sale a bargain.

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FOR SALE
1—No. 4 Caterpillar **Keystone Excavator** with both attachments, used 8 months, price $3800.
1—**Austin Caterpillar Boom Backfiller** with 4 cylinder Erd Motor, used 6 months, price $1100.
This equipment is a bargain and ready for immediate shipment.
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Trench Machines, Backfillers, Shovels, Cranes and Draglines
New and second hand.
McCARRON-RAFTERY & CO.
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1—**Austin No. 0.**
1—**Austin No. 00**, gasoline driven, digs 10 ft. deep, 30 in. wide.
2—**Parsons No. 10 Backfillers.**
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PRICED TO MOVE PROMPTLY
LOCATED IN TEXAS

DUPLEX STEAM PUMPS

2500 gal. Cross Compound National Transit Outside Packed

3-ton Elec. Hoist 20-ft. span. Steam vertical lighting Engines Direct Connected.
All in First Class Condition

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MODEL 16-B
BAY CITY EXCAVATOR

Gasoline Power. Crawler mounting with Skimmer or Ditcher scoop or crane boom.
For Sale or For Rent with Operator

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Shandaken Tunnel Equipment

Ready for Immediate Delivery

Cars

71—1 cu. yd. 30 in. G. Koppel Trunnion.
40—1½ cu. yd. 30 in. G. Sanford-Day End Dump.

Storage Battery Locomotives

11—G. E. Co. 4 ton, 30 in. G. Locos.
7—Whitcomb 4 ton 30 in. G. Locos.
5—Lakewood 36 in. G. Locos.
1—Baldwin 36 in. G. 6x10 Saddle Tank Steam Locomotive.

Concrete Mixers

4—28-S Ransome, electric drive.
1—14-S Lakewood, gasoline engine drive.

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3—35 kw., dir. con., 440 v., 3 ph., 60 cy. Squirrel Cage Motors.

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1—Marion No. 31 Standard and Railroad Trac. Steam Shovel.
4—Myers - Whaley Mucking Machines.
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Corliss Steam Engine

1—150 hp. in A-1 operating condition.

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Marion 21 and 37 Traction or Cat.
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Railroad Shovels, 1½ to 3 yd. sizes.
Marion ¾-yd. Tr. Rev. (Sale or Rent).

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MODEL 21 MARION

High lift, used one year, rigid caterpillars, $5500.00.

FS-844, Engineering News-Record
Tenth Ave. at 36th St., New York City

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Immediate Delivery

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1—Vulcan Class F. 600 v., 1½ cu. yd. capacity.

JAMESTOWN ST. RY. CO.
Jamestown, N. Y.

FOR SALE

1—**Marion** Model "100" R.R. Type **Shovel**, special heavy construction, 98% new.
1—**Marion** Model "37", 1¾ cu. yd. **Steam Shovel**, mounted on crawling traction trucks, good condition.
1—**Marion** Model "32", 1¼ cu. yd. **Steam Shovel**, mounted on crawling traction trucks, used only two months.
1—Model "31", 1-yd. **Steam Shovel**, on traction wheels.

Good shovels of other makes also available.

Contractors' Equipment and Supply Company

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Telephone Spruce 8890

1-3½-yd. Marion 1-225-B Elec. Shovels

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1—Haiss **Path Digging Loader** $2,500.
1—Haiss **Portable Belt Conveyor** 20-ft. long, 18 in. wide, equipped with a gasoline engine, $500.00.

Clamshell Buckets

1—Haiss ½ yd. **"Hi-Power"** type, rebuilt.
1—Haiss ½-yd. **"Contractor"** type, rebuilt.
1—Haiss ¾ yd. **"Contractor"** type, rebuilt
1—Haiss 1 yd. **"Contractor"** type, rebuilt.
1—Hayward ¾ yd., rebuilt.
1—Hayward 1 yd., rebuilt.
1—Hayward 1½ yd., rebuilt.

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FOR SPOT DELIVERY

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Special Offering

2—72-in. diameter, 12-ft. high, ½-in. shell, ⅝-in. heads, double butt strapped and triple riveted for 150 lbs. pressure. Capacity 2500 gallons.

2—90-in. diameter, 27-ft. long, 7/16-in. shell, ⅝-in. heads, for storage or light pressure. Capacity 9000 gallons.

7—84-in. diameter, 20-ft. long, 7/16-in. shell ⅝-in. heads, for storage or light pressure. Capacity 4220 gallons.

Wickes Machinery Co.
Jersey City
Established 1900

SPECIAL
from the Greatest Sale on Record

Every Item in Splendid Condition—Available now at Low Quick Sale Prices!

Locomotive Cranes

20-Ton American.
15-Ton Industrial.
10-Ton Industrial.
Byers Crane, 32-ft. boom, ¾-yd. clam.

Steam Shovels

70-Ton Bucyrus R.R., 2½-yd. dipper.
95-Ton Bucyrus R.R., 5-yd. dipper.
12-yd. W. & O. All Steel Hand Dump Car.

Hoisting Engines

6¼x8 Monaghan Dble. Drum, Dble. Cylinder.
7½x10 Dake Single Drum, Dble. Cylinder.
40 H.P. Olds Gasoline Single Drum Mine Hoist.
50 H.P. Danville Hoisting Engines.
100 H.P. Danville Hoisting Engines.
201 H.P. Danville Hoisting Engines.
265 H.P. Danville Hoisting Engines.
350 H.P. Danville Hoisting Engines.

Locomotives

Baldwin, 36 Gauge.

Compressors (Belt)

6x6 Ingersoll ER-1, 65 cu. ft.
7x6 Ingersoll ER-1, 74 cu. ft.
10x10 Union, 250 cu. ft.
10x12 Gardner Portable, 275 cu. ft.
12x12 Gardner, 350 cu. ft.
12x14 Sullivan, 450 cu.ft.

Compressors (Steam)

7x10x8 Locomotive Type, 60 cu. ft.
10x12x12 Marsh, 70 cu. ft.
10x16x10 Clayton, 425 cu. ft.
12x18x12 Ingersoll, 600 cu. ft.
12x18x12 Ingersoll, 1050 cu. ft.
26x16x30 Sullivan, 1850 cu. ft.

Boilers

250 H.P. Heine Type Water Tube Boilers (never used), built for 200 lbs. pressure.
72-in.x18-ft. Kewanee R.T. Boilers.

Generators

150 K.W. Westinghouse, D.C., 275 volt, direct conn. to 225 H.P. Erie Steam Engine.
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200 K.W. General Electric, D.C. Generator, 250 volt, 800 amp., 200 r.p.m., direct connected to 300 H.P. Erie City 4-valve Horizontal Steam Engine.

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10x16 Buchanan Stone Crusher.
No. 3 McCully Crusher.
Kent Crushing and Pulverizing Mill.
24x24 Buchanan Crushing Rolls.
36x72 Rotary Screen.
Bucket Elevator, 36-ft. centers.
Bucket Elevator, 60-ft. centers.
Belt Conveyor, 52-ft.

HARRIS BROS. CO.
17 State St. NEW YORK | 35th & Iron St. CHICAGO

HOISTING ENGINES (Electric)

1—Clyde 75 hp. triple drum with attached or independent swinger.
6—American 37 hp. double drum with swinger.

HOISTING ENGINES (Steam)

1—Lidgerwood 12x12 double drum heavy double V-type brake bands, especially suited for drag line service.
1—Lambert 9½x12 triple drum with A.S.M.E. boiler and independent swinger.
1—Lidgerwood 8¼x10 triple drum, with A.S.M.E. boiler and independent swinger.
1—Lidgerwood 8¼x10 double drum with A.S.M.E. boiler and attached swinger.
1—Lidgerwood 8x10 double drum bridge engine, four independent winch heads and A.S.M.E. boiler.
1—Lidgerwood 9x10 double drum with boiler.

HOISTING ENGINES (Gasoline)

2—Mundy 75 hp. triple drum; used thirty days.

SWINGERS

2—4½x6 Mead Morrison independent swinger.
1—6x8 Lidgerwood independent swinger.

DERRICKS

2—15-ton Terry 3 line derricks, 16-in. dia., 65-ft. steel booms, 37 ft. mast, 12-ft. bull wheels; used thirty days.
10—Derricks, 14x14 timbers, 12-ft. bull wheels, 65-ft. boom.

COMPRESSORS

1—Ingersoll-Rand Portable Compressor, 250 ft.
1—Ingersoll-Rand Portable Electrically driven, 325 ft.
1—Chicago Pneumatic 12x10 belt driven, 350 ft.

FORSYTHE BROTHERS
30 Church St., New York City.
Cortland 6272-3
Warehouse and Yards,
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LOCOMOTIVE CRANES

BROWNINGS

1—25-ton, 50-ft. boom.
1—20-ton, 50-ft. boom.

INDUSTRIAL

1—17½-ton, 40-ft. boom magnet generator.

McMYLER

1—20-ton, 40-ft. boom.

INTERSTATE

1—20-ton, 40-ft. boom.
1—15-ton, 50-ft. boom.

AMERICAN HOIST & DERRICK

1—20-ton, 30-ft. boom.

Hoisting Machinery Co.
50 Church St., New York
Bourse Building, Philadelphia, Pa.

The GREY Line

LOCOMOTIVE CRANES
For Sale or Rent

1—20-ton, 8-wheel, OHIO, Type "CD" Shop No. 3631, new 1924, A.S.M.E. and Mass. boiler, 50-ft. boom, bucket operating, used 4 months, like new.
1—McMYLER No. 2, full revolving STEAM CRAWLER CRANE, new 1925, 40-ft. boom, bucket operating; used three months.

STEAM SHOVELS

1—NORTHWEST, Model No. 105, full revolving GASOLINE Shovel, new late 1923, ALL STEEL CATERPILLARS, ¾-yd. dipper; HIGH LIFT, Boom Hoist, excellent condition.
1—MARION MODEL 32, full revolving, Steam Shovel, new Sept. 1924, ALL STEEL RIGID CATERPILLARS, 1¼-yd. dipper; HIGH LIFT; used 60 days, perfect condition.

DUMP CARS

25—12-yd. std. gauge, WESTERN, two-way side hand dump, all steel except 19 ft. wood bodies, box girder type doors, M.C.B. trucks, overhauled, first-class condition.

Grey Steel Products Company
111 Broadway, New York, N. Y.

LOCOMOTIVE CRANES

2—Industrials 20 ton, Type G, 50-ft. booms.
2—Brownings, 20 ton, booms 50 ft., double power driven drums, 8 wheel, M.C.B.

POWER SHOVELS

2—Northwests, caterpillar, ¾-yd. dippers.
1—Erie Type B, full caterpillar, high lift, A.S.M.E. boiler.
1—Marion 36, caterpillar, 1½-yd. dipper.

3 Northwest Cranes

DRAGLINES, 40, 45, 50 feet Booms. Latest Type. About 6 months in service

2—O. & S. 12-ton Cranes, 40-50-ft. boom, 1-yd. buckets.
1—P. & H. 206 Crane, 38-ft. boom, ¾-yd. bucket.
1—Universal Truck Crane, 20-ft. boom, ½-yd. bucket, mounted on 5-ton White truck.

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CRUSHERS

Jaw Crushers, 7x13 in. to 20x50 in. Crushing Rolls and Hammer Mills

PAVERS CRANES ROLLERS

1—Rex 14E **Paver.**
3—Lakewood 14E **Pavers.**
1—Koehring 14E **Paver.**
1—Byers Half Caterpillar **Crane.**
1—New York, 10-ton, 3-wheel **Roller.**
1—Buffalo, 10-ton, 3-wheel **Roller.**
1—Wide gauge **Traveling Derrick, 60-ft. boom.**
1—No. 4 **Keystone Grader.**

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Also other locomotives and locomotive cranes and steam shovels and steel rails.

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1—**Type B Erie** on caterpillars, for rent only.
39—12-cu.yd. std. gauge **Western Air Dump Cars.**
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Predominate in general construction work, quarries, sand, gravel and clay pits, mines, and industrial plant haulage. Made in 3 to 20 ton sizes and any track gauge. Always ready, no coal to haul, no licensed engineer. Write for catalogs.

THE FATE-ROOT-HEATH CO.
Plymouth, Ohio

GASOLINE · STORAGE BATTERY · WHITCOMB LOCOMOTIVES · TROLLEY · COMBINATION

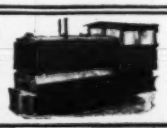
Decrease Haulage Costs

—WRITE FOR CATALOG—

Geo. D. Whitcomb Company

ROCHELLE — ILLINOIS

SEE OUR ADVERTISEMENT IN THE FIRST ISSUE OF EACH MONTH



MILWAUKEE GASOLINE LOCOMOTIVES

4 to 15 tons. All Gauges.

Write for Catalogs B-129 and B-136.

MILWAUKEE LOCOMOTIVE MFG. CO., MILWAUKEE, WIS. U.S.A.

NEW and RELAYING RAILS

1 TON OR 1000

TRACK EQUIPMENT

L.B. FOSTER CO.

PITTSBURGH - PENNSYLVANIA

RAIL ACCESSORIES

NEW YORK · JERSEY CITY · PHILADELPHIA · HAMILTON, O.

LOCOMOTIVES

Immediate Delivery

We have 14-in. x 22 in., 40-ton and 16-in. x 24-in., 50-ton engines awaiting your order.

AMERICAN LOCOMOTIVE COMPANY

30 CHURCH ST., NEW YORK

SPECIFY THE BEST

A Complete Line of the Highest Grade Track Materials

FOR YOUR JOBS

Write for Descriptive Catalog.

SWEETS STEEL CO **WILLIAMSPORT, PA.**

SEVEN WORKS

Ramapo Ajax Corporation

RAILWAY TRACK MATERIAL

Switch Stands, Frogs, Switches, Crossings, Guard Rails, Clamps, etc. — steam, mine and industrial railway tracks

MANGANESE WORK A SPECIALTY

SALES OFFICES AT ALL WORKS

MAIN OFFICE: HILLBURN, N.Y.

BARBER GREENE

Portable Belt Conveyors — Self-Feeding Bucket Loaders

Coal Loaders and Feeders

Vertical Boom Ditchers

Snow Loaders

BARBER-GREENE COMPANY

418 W. Park Ave. Aurora, Ill.

Representatives in 50 Cities

Positive gear drive. Four speeds in either direction. Sizes built, 3½ to 25 tons in weight.

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Specialists

in the

DESIGN AND MANUFACTURE

of

Standard—Insulated Compromise Rail Joints

THE RAIL JOINT COMPANY

61 Broadway, New York City

Don't Overlook Opportunities

Men who regularly keep in touch with the market through other channels often overlook the many opportunities that are to be found in the

SEARCHLIGHT SECTION

For Every Business Want

"Think* SEARCHLIGHT *First"

0156

"Spring Draw Bar—Tractor to Wagon"—Steel Throughout

Bottom Dumping Wagons and Trailers for Tractor Haulage

"Wagon to Wagon Hitch" Chain Transmits Draft of Each Wagon Directly to Tractor Draw Bar

CANASTOTA **WATSON** NEW YORK

TRUCK CORP.

Manufacturers

SAVE TRUCK TIME!

with a

NELSON
FORDSON LOADER

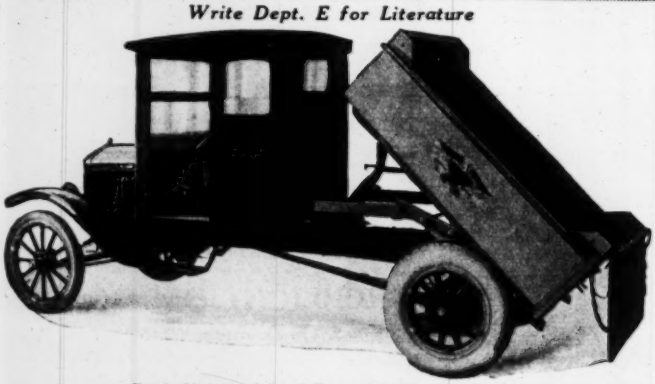
Crowds While Elevating

The Indispensable aid to every live Contractor and Material Dealer.

Write for Catalog
N. P. Nelson Iron Works
Passaic, N. J.

WHY NOT?

Write Dept. E for Literature



Eagle Universal Steel Dump Model 80 for Fords

The Best Automatic Dump they have ever seen

is the comment of practically all the contractors, users and Ford Dealers who have seen our new all steel dump for Ford Ton Trucks.

The points that appeal to them are:

1. The absolute automatic dump and return by use of one foot pedal in cab.

2. The stiff arm construction under front end of body, permitting spreading and batch work.

3. General construction and operation.

THE EAGLE WAGON WORKS
Auburn, New York

Pick Them from Stock for Prompt Shipment

THERE is no reason why any contractor, any manufacturer, any user of industrial locomotives should have to wait for deliveries of locomotive equipment. The probability is that you can select the model you want from the Porter stock and have it delivered and on the job in a few hours or a few days. And you can be certain that 60 years of Porter experience guarantees the *service* of the Porter Locomotive you select. All sizes up to 100 tons.

Write for Catalog

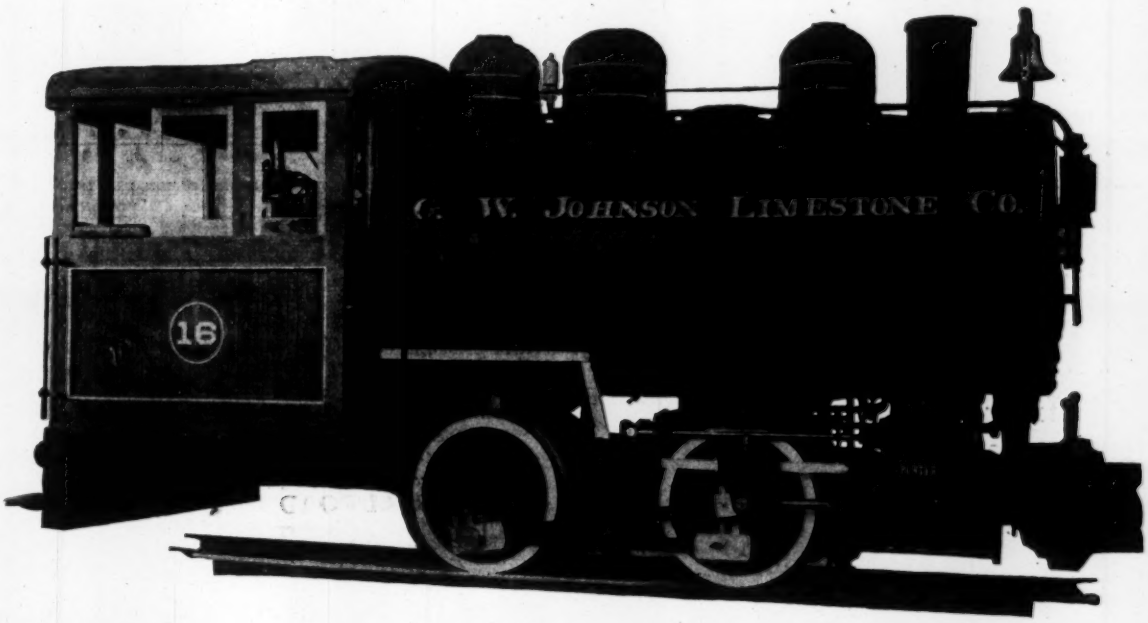
H. K. PORTER COMPANY

Established 1865 **PITTSBURGH, PA.**

Export Representatives

WONHAM BATES & GOODE TRADING CORP.

44 Whitehall Street **Cable Address, "Stapley"** **New York City**



PORTER LOCOMOTIVES

PORTER
"better built"
locomotives

"A.W." Diamond Pattern Rolled Steel Traffic Treads

These Treads are highly successful on old and new wooden floor bridges. They eliminate vibration—prolong the life of the bridge—furnish a surface suitable for any traffic—last for years under heavy use—are economical to install—and have practically no maintenance cost.

"A.W." Rolled Steel Floor Plates are widely used in public buildings, power plants, platforms, etc. May we send you an illustrated folder?

Alan Wood Iron & Steel Co., Widener Bldg., Philadelphia, Pa.

New York Boston San Francisco Los Angeles Seattle Dallas

"A. W." Diamond Pattern Rolled Steel Floor Plates.

And now,—new Best Tractors with all the old advantages and with additional improvements which give greater strength, increased power, and which further reduce the already low cost of operation.

C. L. BEST TRACTOR CO.

General Offices—Factory San Leandro • • California
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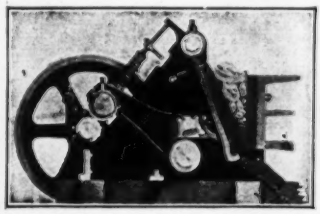
38-425 *"Dealers throughout the United States"*

BEST TRACTORS

Reliance Road Building and Quarry Equipment



Have established a reputation for continuous SERVICE and satisfaction.

We manufacture a complete line including, *Crushers, Elevators, Screens, Bins, Sweepers, Car-Unloaders, etc.* Write for Catalogue.

UNIVERSAL ROAD MACHINERY CO.
Kingston, N. Y.
141 Milk St., Boston, Mass. 114 Liberty St., New York, N. Y.
"RELIANCE" LABOR SAVING MACHINERY

ROAD FORMS

STEEL

Write for Road Form Bulletin

HELTZEL
Steel Form & Iron Co., Warren, Ohio

Only reliable products can be continuously advertised

This Year
Cut Down Road Maintenance Costs
with the

H. P. One Man Grader

Rubber tired wheels for general road maintenance. Rigid Rail Tracks for rough going. That's what the h.p. One Man Grader offers. It is economical. Upkeep is practically nothing. Speed one to ten miles per hour.

Controlled by ONE MAN from platform. Impossible to slide rear sideways. For cutting hard spots, blade will take a ton weight without taking weight from traction wheels.

Scrapes, scarifies, roots, ditches, rolls and removes snow

Write for Full Description or See It At the Road Show, Space N. C. 29, Coliseum, Chicago, Jan. 5-9.

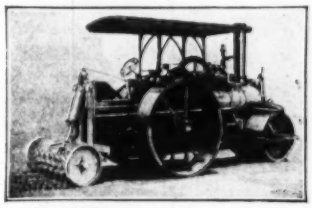
The Hadfield-Penfield Steel Co.
Bucyrus, Ohio

QUALITY ROLLERS

"Buffalo-Pitts" and "Kelly-Springfield"

In all types and sizes, steam and motor.

Buffalo - Springfield Pressure Cylinder Scarifiers can be built on new rollers or attached in the field to rollers already in service.



Inquiries Invited.

The Buffalo-Springfield Roller Co.
Springfield, Ohio

LITTLEFORD
TAR AND ASPHALT HEATERS

For Road Construction and Maintenance

Catalog on Request

LITTLEFORD BROS.
415 E. PEARL ST., CINCINNATI, O.

TAR HEATERS
Portable and Stationary

25 to 900 gallons.

Write for Catalog.

THE JOS. HONHORST CO.
1016-20 W. Sixth St. Cincinnati, O.

Adams 10 ft. Grader finishing a ditch bank by making a cut with the Back-Sloper. Rear wheels are leaned to hold machine against the heavy cut.

Why YOUR Grader should be an ADAMS

First—Your grader should be a "Leaning Wheel" grader because—this is the only type of grader that is designed correctly to move earth side-wise. A "Leaning Wheel" grader pulls easier, does not skid or drag, is easier to control, does better work and much more of it per dollar than any straight-axle grader.

Second—Your "Leaning Wheel" grader should be an ADAMS because only in an ADAMS do you get the proved performance and absolute satisfaction, which are the results of ADAMS 40 years of specializing on "Leaning Wheel" graders.

During these 40 years, Adams Graders have been perfected to a degree of simplicity, strength, ease of operation and freedom from trouble not approached by recent imitations. For example, compare the simple patented "one-piece" rear axle and simple controls of Adams Graders with the "two-piece" axles and complicated controls used on other "Leaning Wheel" graders.

Any way you figure it—on design, construction, performance or satisfaction—your best buy in a road grader is an ADAMS. Ask any user—and send for our 60-page catalog.

Get this Catalog:

ADAMS
ADJUSTABLE LEANING WHEEL
GRADERS
"The Original - A Proved Success Since 1885"

E.N.-R. 6-25

J. D. ADAMS & CO., Indianapolis, Ind.

Send me your New Catalog

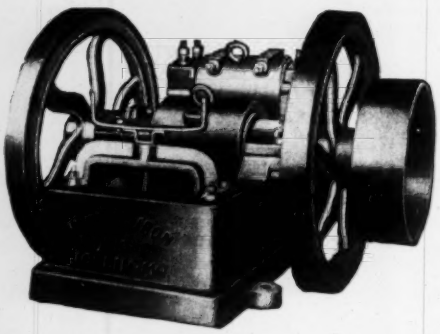
Name .....

Position .....

Address .....

.....

A Unique Crushing Action



The mechanical efficiency of the UNITED Crusher is exemplified in the unique crushing action by which the largest pieces of rock are crushed at the upper part of the jaws where the leverage is greatest. This means more crushing with less power consumption.

The UNITED Crusher is efficiently designed throughout. It is strongly, heavily built. Breakdowns are rare with the "UNITED". It is built to eliminate these troubles and delays.

The capacity of these crushers is large. It is only by concentrating in the building of one type of crusher that the UNITED low price is made possible.

This crusher can be had unmounted or mounted on a truck with elevator. Built in 8 sizes.

United Iron Works
Dept. H.
Kansas City, Mo.

Manufacturers of Crushers, Hoists, Pumps, Cars, Industrial Track, etc.

"UNITED" IRON WORKS INC.
FOR SERVICE

STANDARD *Asphalt Products*

Standard Asphalt Binder A *for surface treatment.*
Standard Asphalt Binder B *for penetration work.*
Standard Asphalt Binder C *for the mixing method.*
Standard Cold Patch Asphalt *for repairing all types of bituminous road surfaces.*
Standard Refined Mexican Asphalt *for sheet asphalt paving.*
Standard Asphalt Joint Fillers *for brick or block pavements.*
Standard Paving Flux, Standard Bridge Asphalt and Preserving Oils.

STANDARD OIL CO. OF NEW YORK
26 Broadway

Specifications and all other particulars furnished on request.

SOCONY ASPHALTS AND ROAD OILS

REINFORCEMENT

Is the Deciding Factor In the Concrete Road

WICKWIRE SPENCER STEEL

CLINTON ELECTRICALLY WELDED FABRIC has been used successfully twenty years in roads, sewers, dams, etc., and in fireproof construction.

Wherever dependable mesh reinforcement can be used Clinton has stood the test of time.

Clinton fabric can be furnished in flat sheets and laid by unskilled laborers as fast as the mixer can cover the ground.

WICKWIRE SPENCER STEEL COMPANY, Inc.

General Offices

41 East Forty-Second Street, New York

Worcester Buffalo Philadelphia Cleveland Detroit
Chicago San Francisco Los Angeles Seattle

The most sewer for the money

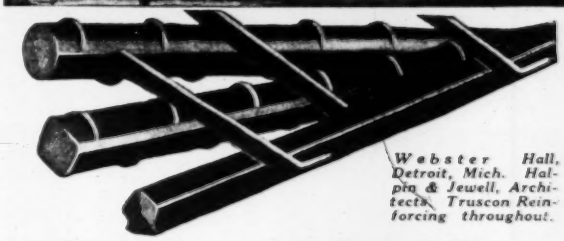
SEWERS should last and give service for all time once they are laid. Clay pipe does that. Clay pipe is made of the ground itself—ground chemicals and acids cannot harm it. Nor can electrolysis disintegrate clay pipe, because it is made practically the same as a high-tension insulator with its outer coating of glass (the glaze).

For real permanence, lay Vitrified Salt-Glazed Clay Sewer Pipe.

Clay Products Association
Chamber of Commerce Bldg.
Chicago

VITRIFIED Salt Glazed CLAY
Sanitary Sewer Pipe

ENR6-25F-RTG



Webster Hall, Detroit, Mich. Halpin & Jewell, Architects. Truscon Reinforcing throughout.

Reinforcing Steel For Every Modern Need

The Truscon Tapped Insert for use where exact location of attachments is known.

Truscon Slotted Insert for use where moderate range of adjustment is desired. Inserts save costly drilling operations

Truscon, long in the lead in the design and manufacture of Reinforcing Steel for concrete, offers the builder complete variety of products and thorough service.

Truscon Reinforcing Products include Column Hooping, Wire Mesh, Kahn Trussed Bars, Rib Bars, Floretyles, Floredomes, Floreforms, Metal Lath, Steel Joists and Steel Inserts.

The Truscon Organization is back of the builder with experience and manufacturing resources. Their specialists in reinforcing problems co-operate with you to secure the best results for the least money. Twenty warehouses centrally located and the great Truscon Plant assure you prompt service.

Write for Catalog and information.

TRUSCON STEEL COMPANY, YOUNGSTOWN, OHIO
Warehouses and Sales Offices in Principal Cities
Foreign Div.: New York, Canada: Walkerville, Ont.

TRUSCON
STEEL FOR
CONCRETE REINFORCING

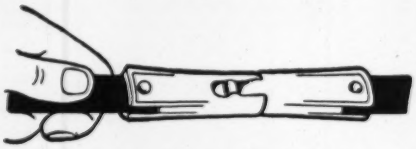
For manhole forms

Manhole forms, too, can be quickly and economically built with standard and special METAFORMS. On special jobs of this nature, when the form building space is limited, the simple, easy-to-handle Metaforms offer the only practical method. Metaforms speed the job and cut costs.

Metaforms are produced for both circular and straight wall work. They are uniform, reinforced steel plate units.

Write for Booklet

Metal Forms Corporation
Milwaukee, Wis.



SEWER AND CONDUIT
FELTON'S
ROD COUPLINGS

Lock Like One Piece More Rigid than Ever!

Since we improved these well-known couplings by adding straps and tapering the rod-socket to obtain a drive fit, they have greater strength and rigidity than ever before.

Hold a series of several couplings by one hand, as suggested in illustration, and they will be as straight and tightly linked as though all one piece.

Prices remain the same
Send for our illustrated folder

WALDO BROS. & CO.
202 Southampton St., Boston, Mass.

New Way to Join Pipe
PRESSTITE
PATENTS PENDING

An asphalt joint in a new, convenient form. A preformed, pliable, asphaltic gasket inserted with pipe on top of trench. Joint is pressed "home" gradually with lever, as pictured, (2000 to 2500 lbs. horizontal pressure). A joint that won't leak, crack or freeze. Root-proof. Acid-proof. Saves sewer cleaning expense. Saves in trench width. Can be used in wet trench.

SELF-CENTERING

Gasket tapers to outer edge of bell. Automatically centers spigot into bell of pipe. Allows pipe to conform to final grade of trench. Big saving in labor. Write for details. Let Presstite Service help solve your pipe line problems.

PRESSTITE ENGINEERING CO.
4327 Duncan Ave., St. Louis, Mo.

Patented

SHANLEY
Reversible Manhole Cover

Shows net saving of $96 per manhole. Saves the pavement. Can be handled by one man. Cheaper to install. Adopted as Chicago standard cover. Made in any size or shape, according to specifications. Write or wire for complete information.

Shanley Reversible Manhole Cover
Manhole and Utility Vault Covers
115 S. Dearborn Street, Chicago, Ill.

TONCAN METAL
Rust-Resisting CORRUGATED CULVERTS

"ACME" (Nestable) and IMPERIAL Riveted Corrugated Culverts.
Made of anti-Corrosive Toncan Metal. Write for prices.

The Canton Culvert & Silo Co., Canton, Ohio
MANUFACTURERS

LACLEDE-CHRISTY
Patented
Segment Sewer Blocks

—Vitrified Clay, salt glazed

—Use for all sewers, culverts, etc., over 36" in diameter.

—Write for descriptive booklet.

We also specialize in large sizes of Vitrified Sewer Pipe—27" to 36" dia.

LACLEDE-CHRISTY, ST. LOUIS, U. S. A.

HARDESTY METAL PRODUCTS

FLUMES, GATES, PIPE and IRRIGATION SUPPLIES

See Our One-Half Page Ad. in first Issue of the month.

THE R. HARDESTY MFG. CO.
Denver, Colorado

VITRIFIED CLAY CONDUIT

Our process of manufacture with low freight rates to all points permits us to quote interesting prices upon request. Give type of conduit and point of delivery.

CLERMONT CLAY PRODUCTS CO.
1422 Chestnut St., Philadelphia, Pa.

Two grains of Strychnine

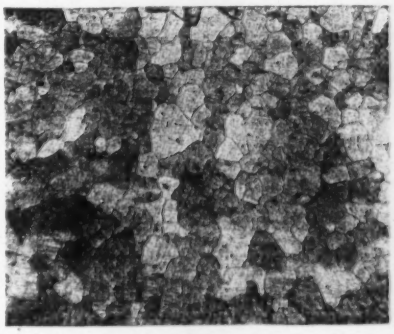
Two grains of strychnine will kill a 180 pound man.

The percentage of strychnine compared with the man's weight is less than 1/5000 of 1 per cent.

It is easily understandable, then, why an increase in impurities of several hundredths of one per cent makes such a vital difference in the durability of culvert material.

ARMCO Ingot Iron is purer than any other iron made. The microphotograph shows nothing but pure ferrite grains. That's why no other iron compares with it in durability under culvert conditions, as proved by actual investigation of thousands of installations.

There is a manufacturer in almost every state and in Canada, making Culverts, Flumes, Siphons, Tanks, Roofing, etc., of genuine, rust-resisting ARMCO Ingot Iron. Write for full information and nearest shipping point on products in which you are interested.



Microphotograph of ARMCO Ingot Iron

INGOT IRON
the purest iron made

ARMCO CULVERT & FLUME MFRS. ASS'N
MIDDLETOWN, OHIO

ARMCO CULVERTS FOR ECONOMY

"Look under your roads"

ASSEMBLED ~ READY TO PLACE IN FORMS.

CHEAPEST METHOD OF FORM TYING

Perfect Finish—Positive Strength—Easy Adjustment to line—Watertight
Rod left in wall costs no more than usual tie wire.

HAWLEY TIE BOLT CO., 403 Cotton Exchange Bldg., Fort Worth, Tex.

Wood Preservers Since 1878

Eppinger & Russell Co.

CREOSOTED
Forest Products of all kinds

Ties—Lumber—Piles—Poles—Cross Arms for Railroads, Bridges, Docks, Fences, and other purposes where permanent construction is required.

Also Manufacturers and Dealers in
Yellow Pine and Cypress

Main Office: 165 Broadway, New York
Branch Office: Jacksonville, Fla.
Plants at Jacksonville, Fla. Long Island City, N. Y.

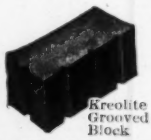
Information and Quotations Cheerfully Given.
Address Nearest Office

KREOLITE WOOD BLOCK FLOORS

"Outlast the Factory"

An excellent investment for machine shops, loading platforms, foundries, warerooms, pickling rooms and other parts of the plant where the floors receive hard wear.

Write today for our booklet—
"Kreolite Factory Floors."


Kreolite Grooved Block

We also furnish Kreolite Wood Blocks for Street Pavements, Bridge Floors and Stable Floors, treated ties, piling timbers, fence posts, etc., framed to your plan, if desired, before treatment.

The Jennison-Wright Co.
79 Kreolite Bldg., Toledo, Ohio

THE WYCKOFF PIPE & CREOSOTING COMPANY

OFFICE: 522 5th Ave., N. Y.
WORKS: Portsmouth, Va.

Established 1881

CREOSOTED

Railroad Ties, Bridge Timbers, Piles, Poles, Paving Blocks and Lumber — Manufacturers of Cross Arms and Wyckoff Conduit for Underground Wires.

CREOSOTE OILS
MADE TO SPECIFICATION
TAR PRODUCTS CORPORATION
PROVIDENCE, R. I.

Offices: 99 Empire St., Providence
Works: East Providence

AMERICAN CREOSOTING COMPANY
INCORPORATED

COLONIAL CREOSOTING COMPANY INCORPORATED
GEORGIA CREOSOTING COMPANY INCORPORATED

AMCREOCO LOWRY PROCESS CREOSOTED WOOD

Poles Timbers Cross Ties
Piling Lumber Paving Block

LOUISVILLE ~ KENTUCKY
SALES OFFICES
850 MADISON AVE. NEW YORK CITY ~ 401 W. MAIN ST. LOUISVILLE, KY.
BOGALUSA, LA. BRUNSWICK, GA.

Wood Preservatives

All grades and to any desired specification, including colorless and odorless preservatives. Prices vary according to quality, discounts according to quantity. Full information and details on all wood preserving requirements especially for surface treatments based on 36 years' experience. Works: Kenilworth, N. J. Shipping Depots: Pittsburgh, Chicago and St. Louis.

PROTEXOL CORPORATION
Successor to Carbolineum Wood Preserving Company.
35 Barclay St., New York, U. S. A.

GODWIN STEEL PAVING-GUARDS

Protect the edges of Street, Road, Curb, and Street Railway Paving

Various sizes and shapes adaptable to all types and character of paving. *Write for Illustrated Catalog No. 21.*

W. S. GODWIN CO., Inc.
Race & McComas Sts. Baltimore, Md.

Creosoted Ties, Piling, Poles and Timbers
Creosote Oil
Docks for Ocean Vessels

AMERICAN CREOSOTE WORKS, INC.,
New Orleans, La.

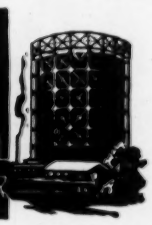
SAVANNAH CREOSOTING CO., INC.
Savannah, Ga.

TRUSCON BAR-OX STEEL PAINTS
BARS OXIDATION

Rust Inhibitive - Gas Holder - Acid and Alkali Coatings

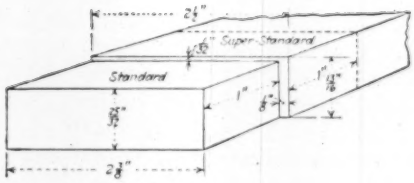
ASK FOR BOOKLET

THE TRUSCON LABORATORIES ~ DETROIT



This is the second of a series of advertisements being published in a genuine desire to see lumber users get what they pay for. The material that is commonly shaved off at the mill can just as well be used to increase the dimensions of the lumber, increasing the strength 8%, stiffness 12%, and warping resistance 8%.

2 9.5% More Lumber in Super-Standard



Here are the figures to prove it

The volume of one inch of 1x3 lumber
= the surface of the end x 1-in.
= the surface of the end expressed in square inches

End surface of standard = 25/32x2⅞-in.
= 25/32x76/32 = 1900/1024 = 1-219/256
= 1.855 sq. in.

End surface of *super* standard = 13/16x2½-in.
= 13/16x40/16 = 520/256 = 2-1/32-in.
= 2.031 sq. in.

Difference in Area = 2.031—1.855 = .176 sq. in.

% increase of *super* standard over standard
= .176 / 1.855 = 9.48%

The difference between "rough green dressed" and "rough dry dressed" is ⅛ inch in one dimension and 1/16 inch in the other.

The difference in volume of lumber is 9.5%.

The difference in strength is 8%.

The difference in stiffness is 12%.

The difference in resistance to warping is 8%.

The difference in your pocketbook is *at least* 9%.

Do you want to reduce your labor bills 9%?

Then specify *Super-Standard*—there is no further argument.

Southern Pine Sales Corp.
Charles Hill—Gen Sales Mgr.
Woolworth Bldg.—New York City

"An Inch for an Inch and a Foot for a Foot"

OWN YOUR HOME

VULCANITE PORTLAND CEMENT CO

PHILADELPHIA BOSTON NEW YORK

A New Paper Cement Bag

The Multi Ply Keeps Contents Dry

Five Walls of Tough Pliable Paper

Manufactured by

Bates Valve Bag Company

8200 South Chicago Ave., Chicago, Illinois

BUY YOUR CEMENT IN MULTI-WALL BAGS

Write for Samples

Business Established 1832

The Lawrence Cement Co.

No. 302 Broadway New York, N.Y.

Selling Agents for

Dragon PORTLAND CEMENT

In Successful Use a Third-Century

Specialists in

CEMENT GUN CONSTRUCTION

Engineering—Contracting—Renting—Operating

Estimates Promptly Furnished

Contracts Executed Anywhere

GUNITE CONCRETE AND CONSTRUCTION CO.

BARCLAY A. GREENE, President

114 West Tenth Street, Kansas City, Mo.

BRANCH OFFICES: 335 U. S. National Bank Building, Denver, Colorado; 2011 Railway Exchange Building, St. Louis, Mo.

CEMENT GROUTING by WEBER "INTRUSION" Method

CEMENT GUN WORK

WEBER ENGINEERING CORPORATION

Singer Building, New York

BITUMASTIC AND HERMASTIC

Paints and compounds that meet every problem of metal protection. Backed by 70 years' experience.

WAILES-DOVE-HERMISTON CORPORATION

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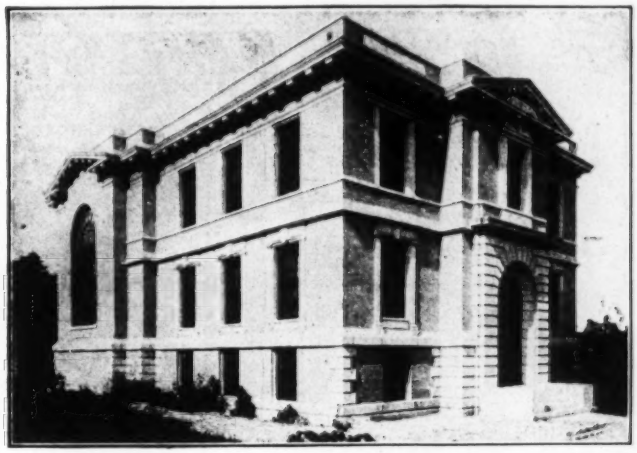

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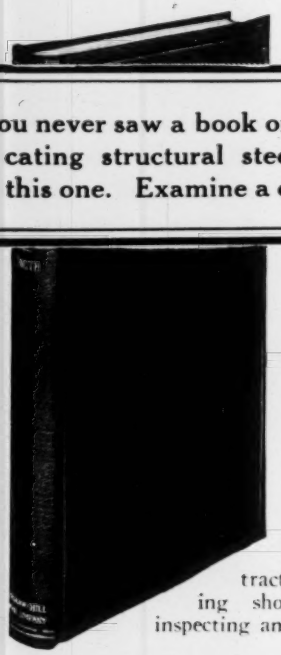

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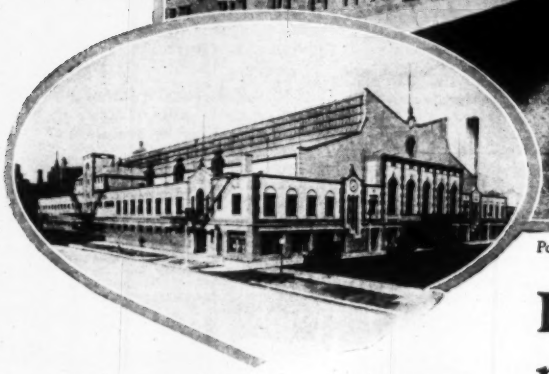

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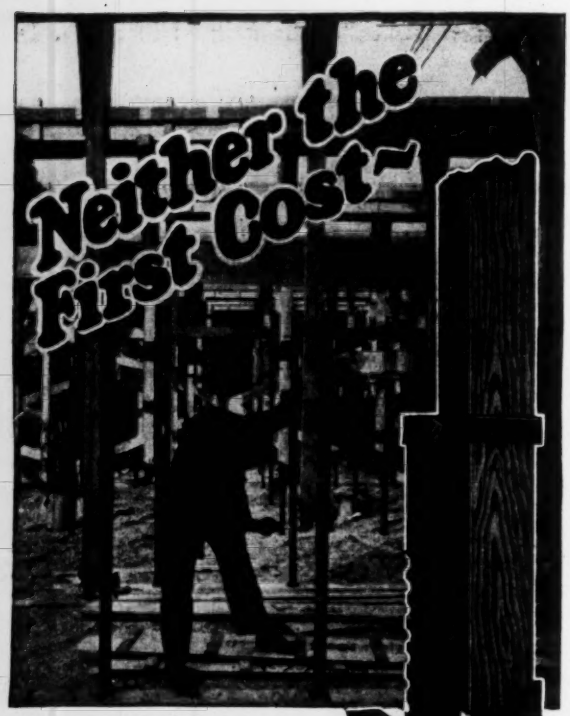

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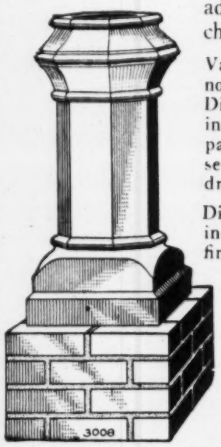

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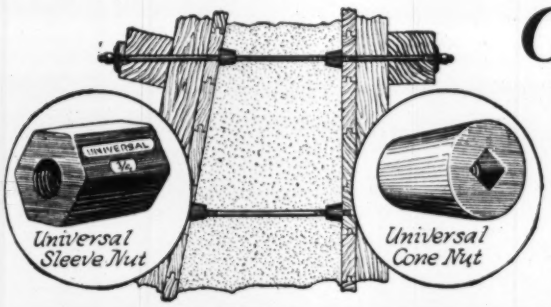

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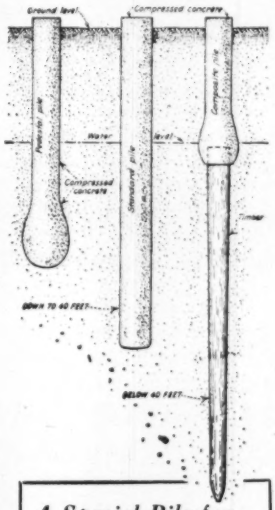

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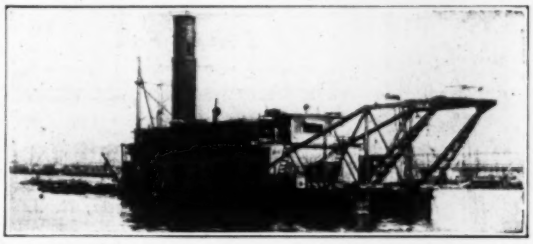

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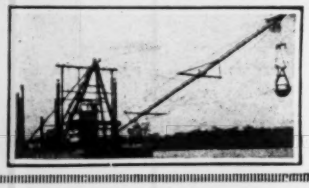

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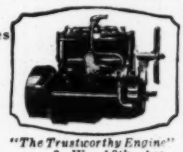

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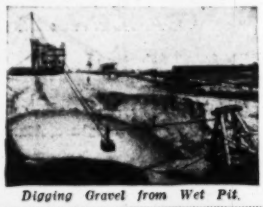

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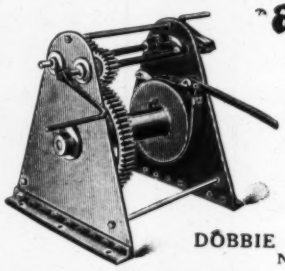

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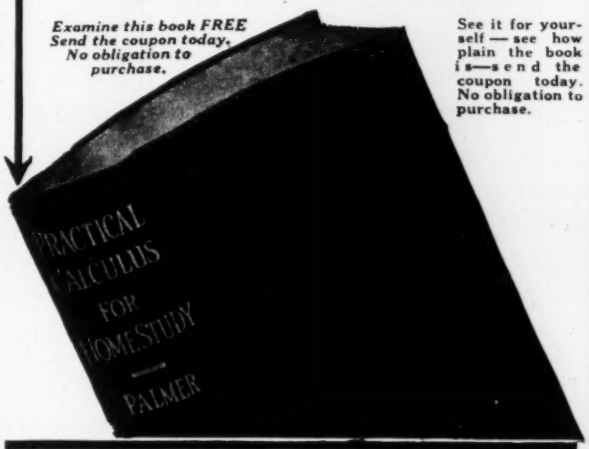

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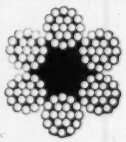

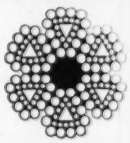

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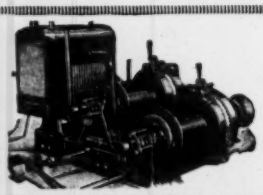

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Hoisting Equipment
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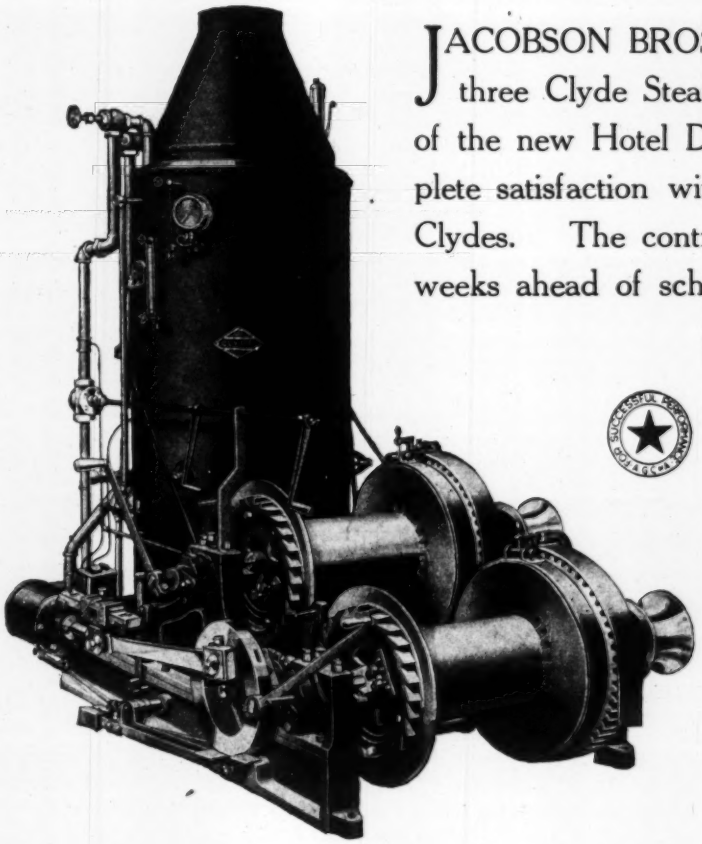
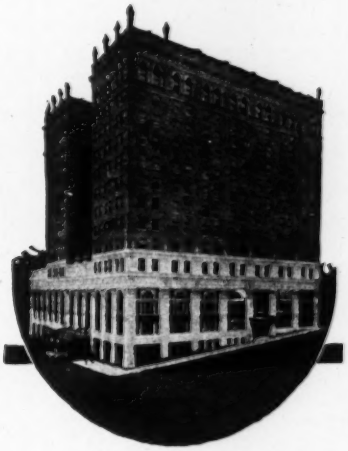
For the General Contractor

STEAM · ELECTRIC · GASOLINE · BELT



JACOBSON BROS., General Contractors, used three Clyde Steam Hoists in the construction of the new Hotel Duluth. They express complete satisfaction with the performance of their Clydes. The contract was completed some weeks ahead of schedule.



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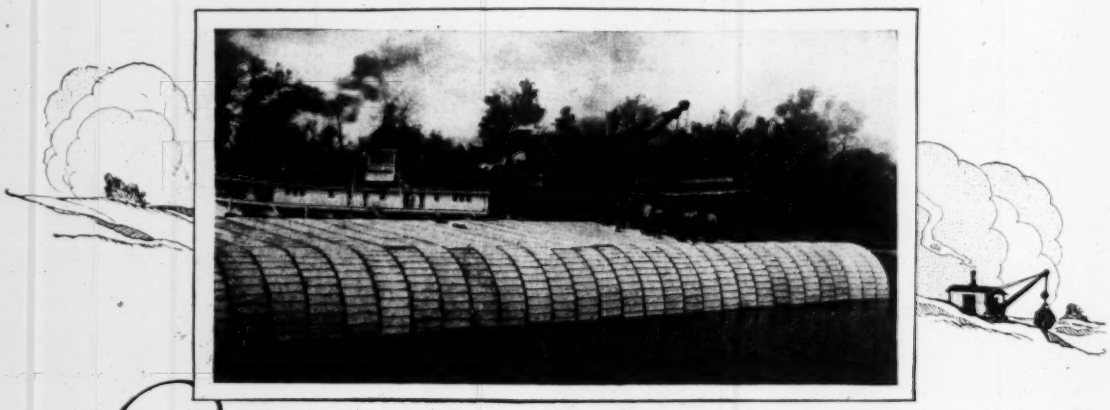

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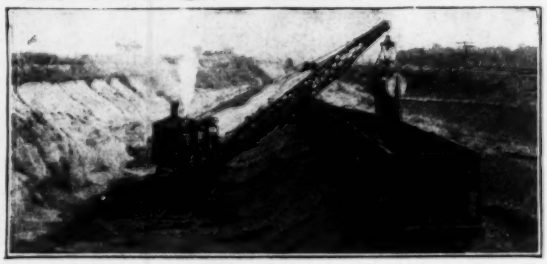

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Features: mobility, maximum capacity, versatility, speed, low operating cost, careful protection of truck, light road weight, great stability, full-revolving. Service tested.

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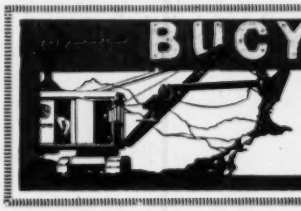

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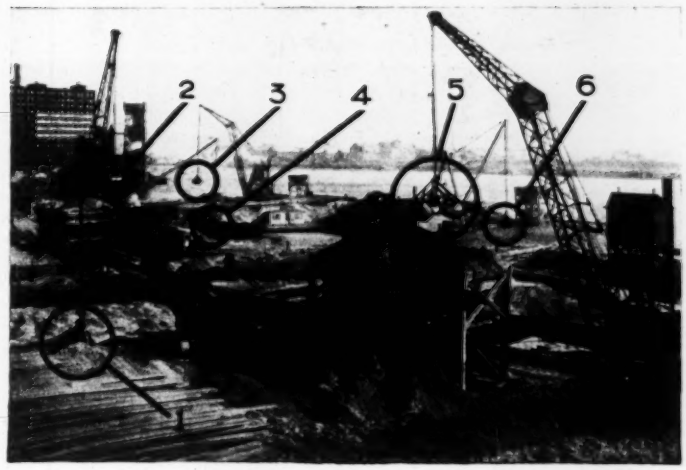
Note how this Hayward Clam Shell Bucket cleans up the deck of the barge—one of the reasons for the quick unloading ability of Haywards.



This Hayward digs a big load and then dumps it freely and quickly.

Why Haywards predominate

Groups of Hayward Buckets, like that shown above, are commonly found where large quantities of bulk materials must be handled speedily. In addition to speed Haywards possess qualities which are the result of more than 40 years of experience in building all types of buckets.

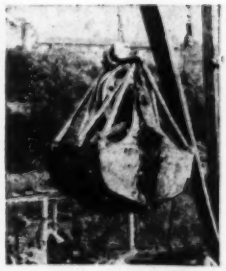
Overload capacity—
Because the rating of all Hayward Buckets is based on level measurement, all crowned load is overload.

Strength—
that gives long life and the ability to resist the shocks and strains of gruelling service. This is a quality common to all Hayward equipment.

Clean, Free Dumping—
contributing to the speedy work of Hayward Buckets. Note in the view at the left how most of the load has left the bucket—and the bucket only partly opened.

Send for Catalogs and Bulletins describing these features of Haywards in greater detail.

Handling a 16-ton rock from the bottom of a river.



Showing an overload bite in hard packed soil.

THE HAYWARD COMPANY
48-50 Church St., New York, N. Y.

Builders of Clam Shell, Orange Peel, Drag Line, and Electric Motor Buckets; Excavating, Dredging, and Coal Handling Machinery.

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A Bucketful

Get the bucket that gives you a bucketful at every "bite"—often heaped up and running over: The O-S Type "V" Clam Shell Bucket. Why?

1. Weight enough to bury itself in the material.
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Built rugged throughout

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Big sheaves and straight rope leads

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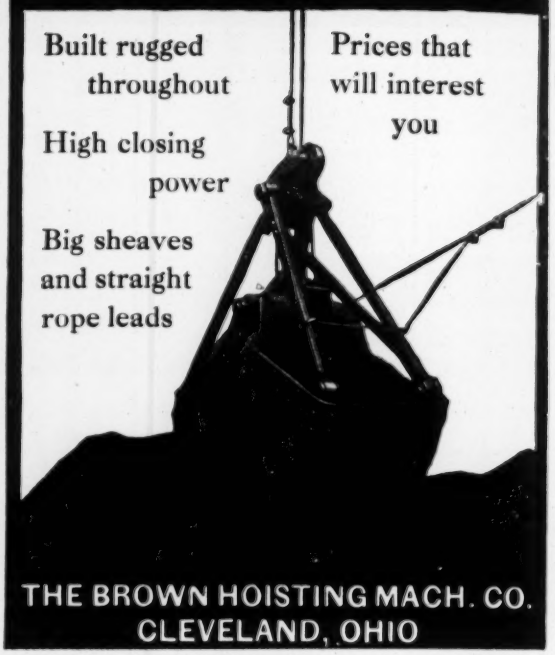

THE BROWN HOISTING MACH. CO.
CLEVELAND, OHIO

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For issue of the following Thursday

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for all kinds of digging and rehandling for any crane. Built by Master Builders.

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(1) Digging power (2) Speed, and (3) Durability—combined in greater degree than in any other bucket. We'll be glad to show you why.

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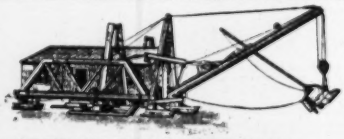

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EASILY DISMANTLED, TRANSPORTED AND ASSEMBLED

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WAYS and means of increasing its water supply is a problem being given serious consideration by municipalities throughout the country. However, investigations frequently prove that many of the present water supplies are adequate if properly handled to eliminate consumer waste. Metering is the only method that does prevent waste.

In many cities where Neptune Trident Meters are in use, water is being conserved, controlled and delivered to consumers at much lower cost, and with a decrease in operating cost, than would be otherwise possible.

In material, workmanship and design, Trident Meters are built to render the unity of function which is necessary to guarantee the accurate supplying of a city's water needs.

Send for a copy of the 86-page book describing all types and sizes of Neptune Meters.

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Pioneers in Meter Progress

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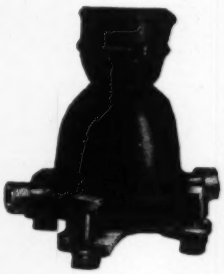

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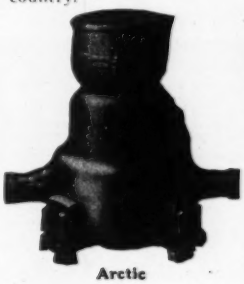
WATER METERS

DISC—CURRENT—COMPOUND

The TROPIC—An all-bronze Water Meter, with connection spuds attached to the lower case. Particularly designed for warm sections of the country.

Tropic



Arctic

The ARCTIC—A frost-bottom Water Meter, especially designed for cold sections of the country.

These two meters embody exactly the same mechanical features, the only difference being the changes necessary to provide a frost-breaking feature in the Arctic.

Either of these meters will be equipped with a COMPLETELY ENCLOSED intermediate train RUNNING IN OIL, if desired.

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"The only safe Water is a Sterilized Water"

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Manufacturers of Chlorine Control Apparatus
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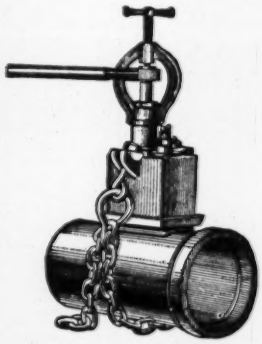

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Complete Engineering Service
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PIONEER MANUFACTURERS of LIQUID CHLORINE
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National Methods are patented

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Simplicity
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Bulletin 28 Tells the Story
SIMPLEX VALVE & METER CO.,
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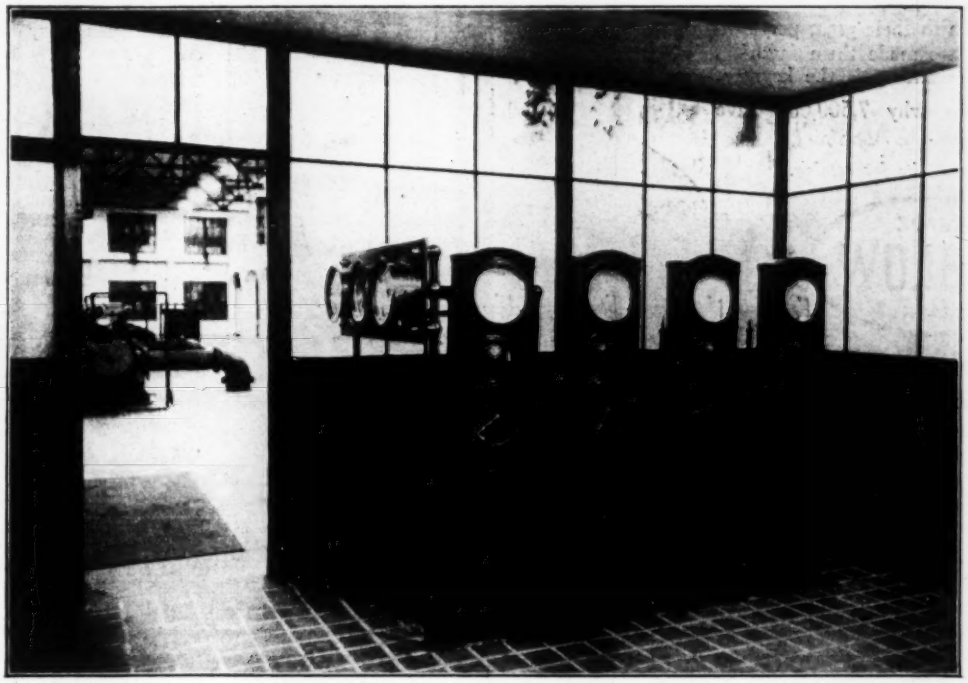
A Venturi Battery in the South



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No up-to-date waterworks plant is now considered complete unless Venturi-equipped

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Put in your valves "once for all"

By installing Ludlow Valves. Their simple construction combined with their great performance have made them favorites where economy is the keynote.

That is why 7,500,000 have been sold.

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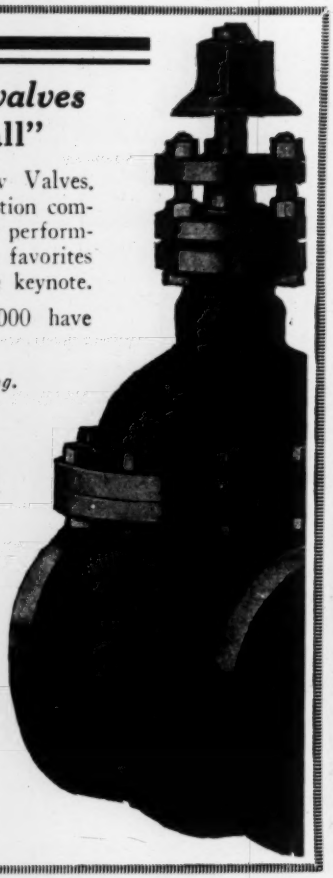

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Troy, N. Y.

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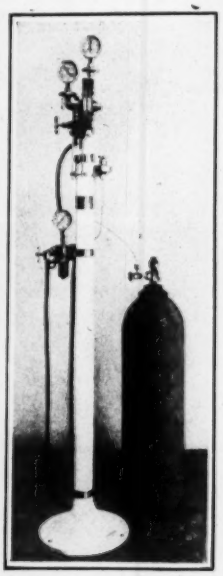
PARADON Chlorinator Installations



Paradon Semi-Vacuum Chlorinator for Water-Sewage-Swiming Pools

A chlorinator is in the final analysis judged chiefly by its performance.

We refer you to any of the numerous PARADON INSTALLATIONS included among which are:

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75 *Paradon* Chlorinators in Service

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PARADON ENGINEERING COMPANY
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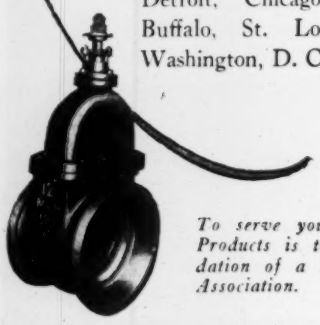
Michigan Valves



Universal Satisfaction

is evidenced by the installation of "Michigan" built equipment during the year 1924 by such Cities as Detroit, Chicago, New York, Buffalo, St. Louis, St. Paul, Washington, D. C., New Orleans.

To serve you with Michigan Products is to Lay the Foundation of a Lifetime Business Association.

Michigan Valve and Foundry Company
Established 1852

DETROIT MICHIGAN

Extra Heavy Valves for high pressures

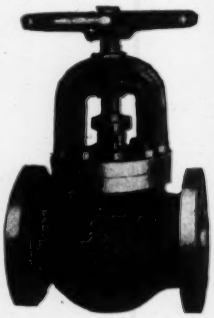


Fig. 162, flanged, Jenkins Iron Body Globe Valve, Extra Heavy pattern.

Jenkins Extra Heavy Valves can be used with entire safety on working steam pressures up to 250 lbs. and working water pressures up to 400 lbs. Their design and construction are typically Jenkins and give great strength and rigidity — sufficient to easily withstand strains and stresses due to expansion and contraction of piping, and other causes.

The Jenkins Extra Heavy Valves are furnished in the following types: Globe, Angle, Gate, Blow-Off, Check, Automatic Equalizing Stop and Check. Obtainable through supply houses everywhere.

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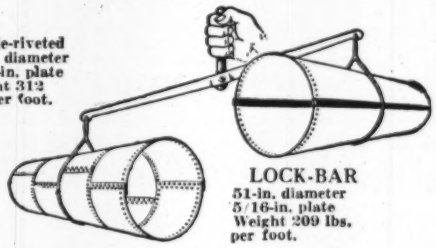
524 Atlantic Avenue ..... Boston, Mass.
133 No. Seventh Street ..... Philadelphia, Pa.
646 Washington Boulevard ..... Chicago, Ill.
JENKINS BROS., Limited
Montreal, Canada London, England

Always marked with the "Diamond"
Jenkins Valves
SINCE 1864



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STRONG AS THE PLATE ITSELF

CAST IRON PIPE
NATIONAL
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NO CAULKING
Saves 50% to 75%
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THE LEADITE COMPANY, 1512 Land Title Bldg., Phila., Pa.
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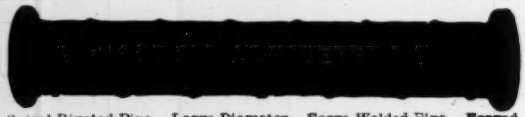
Sizes 1¼ in. and Up
Standard fittings used. Catalog N.
McWANE CAST IRON PIPE CO.
Birmingham, Alabama
No Bell Holes



Spiral Riveted Pipe. Large Diameter. Forge Welded Pipe. Forged Steel Pipe Flanges. Flexible Ball Joints. Send for Catalog.

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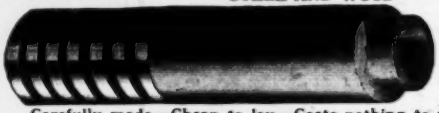

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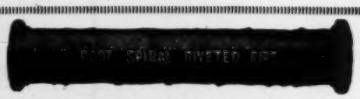

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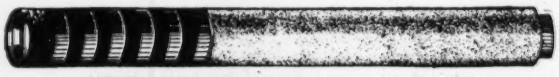

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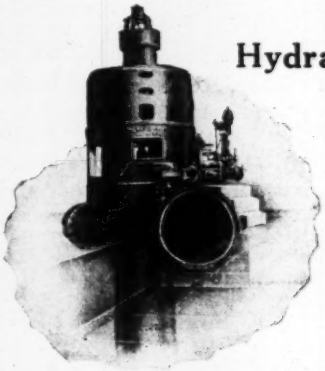

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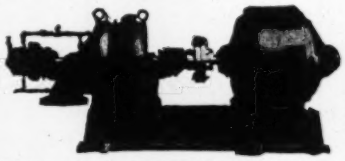

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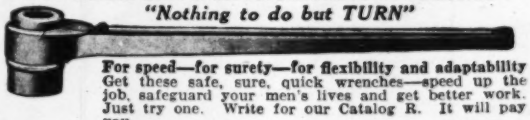

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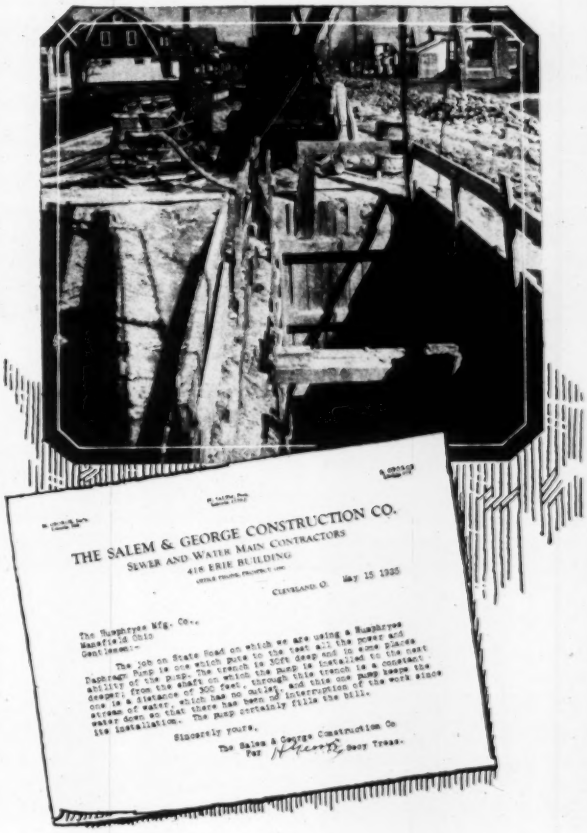

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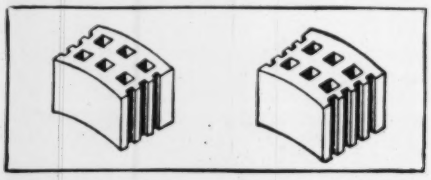

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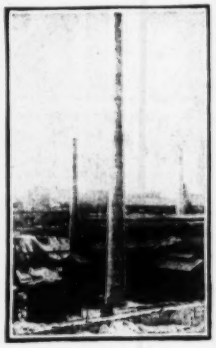

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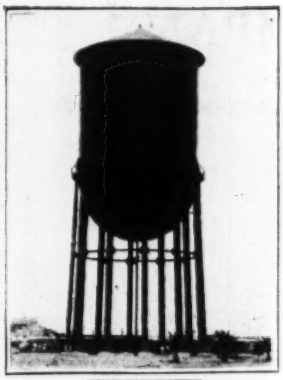

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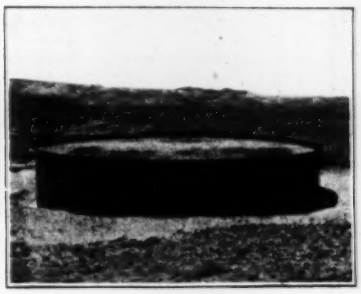

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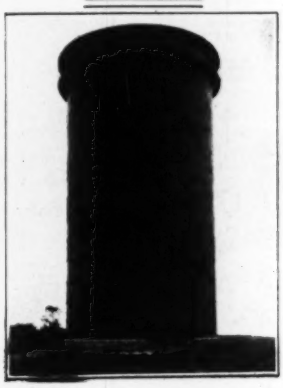

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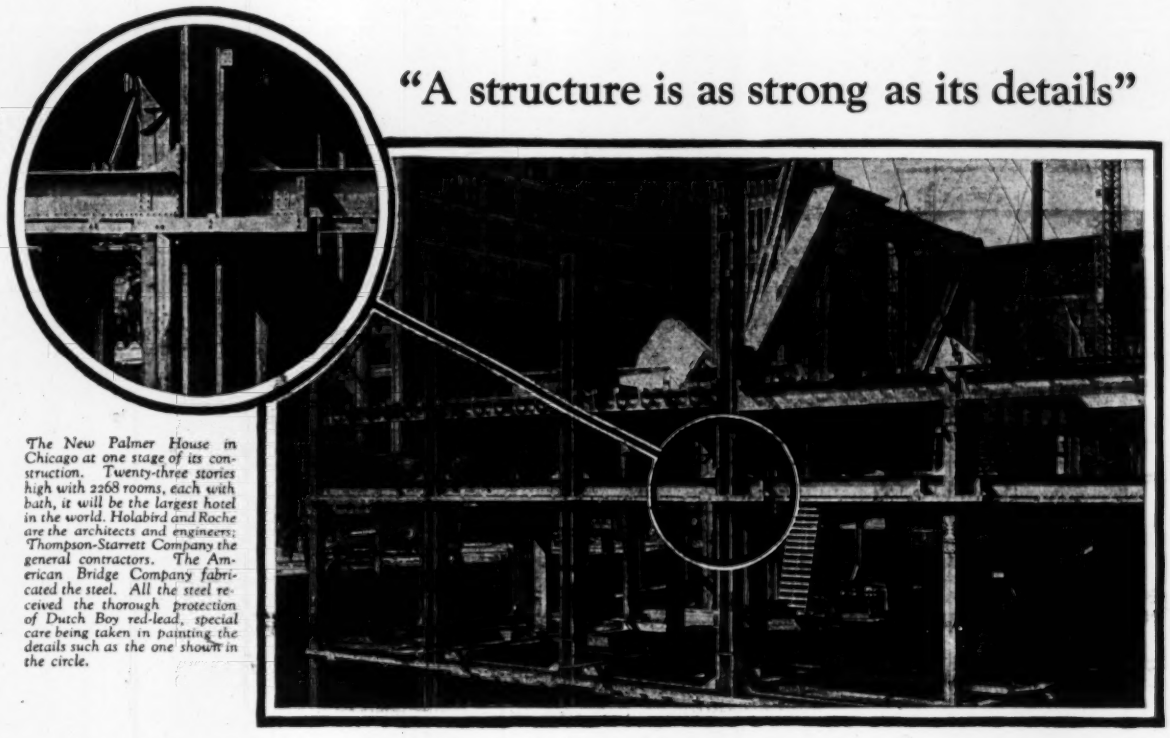


The New Palmer House in Chicago at one stage of its construction. Twenty-three stories high with 2268 rooms, each with bath, it will be the largest hotel in the world. Holabird and Roche are the architects and engineers; Thompson-Starrett Company the general contractors. The American Bridge Company fabricated the steel. All the steel received the thorough protection of Dutch Boy red-lead, special care being taken in painting the details such as the one shown in the circle.

What the public overlooked was the engineers' biggest job

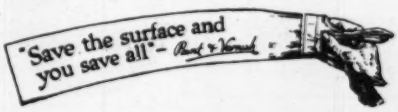
All the public saw was a network of metal. They missed the countless details whose strength will keep this structure safe

RIGHT in the heart of Chicago's loop, the New Palmer House will open its doors. Its twenty-three stories will be divided into 2268 rooms, making it the largest hotel in the world.

A curious public watched in wonder as the network of steel was erected. But all they saw was a complicated mass of metal. They overlooked the innumerable details, the designing of which was the engineers' biggest job. For upon the strength of these details depends the safety of the whole structure.

Care in design and close figuring are of vital importance in making sure that the details are sound. But there is something more. All of the steel should be thoroughly protected against corrosion, and special care should be exercised in painting the details. In the recesses of details, where there are overlapping joints, at bolt heads, the edges of plates and girders, etc., rusting usually starts. Once steel is surrounded by masonry it becomes inaccessible for repainting. The one painting it receives, therefore, should be with the best paint it is possible to buy. That is why pure red-lead is the standard for protecting the steel framework of buildings. It is why in the New Palmer House every bit of steel, from the heavy girders and trusses to the gusset plates and bolt heads, received a thorough painting with Dutch Boy red-lead.

Dutch Boy red-lead will keep the inaccessible steel in good condition indefinitely. Being pure red-lead, it gives the best known protection to iron and steel surfaces—those that are exposed as well as those that are inaccessible after erection. It spreads evenly under the brush, insuring uniform protection. It dries with a tough, moisture-proof film that does not crack and scale.



Dutch Boy red-lead comes in both paste and liquid form. The paste is obtainable in the natural orange-red color and can be shaded to browns, greens, and black. The liquid comes in the natural orange-red color and also comes shaded to light and dark brown, light and dark green, and black for finishing coats.

Write our nearest branch if you are interested in protective paint coatings.

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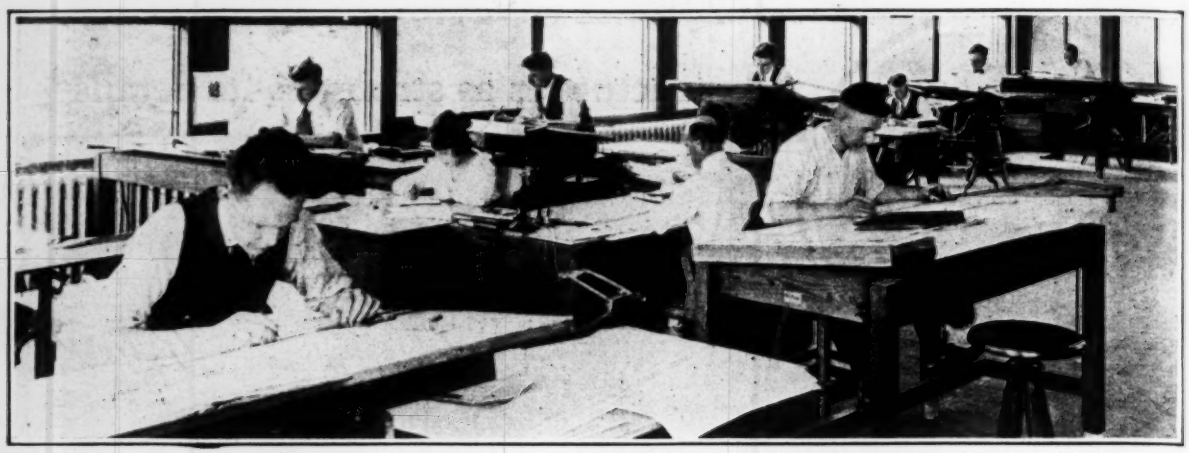

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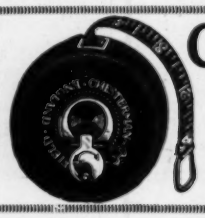

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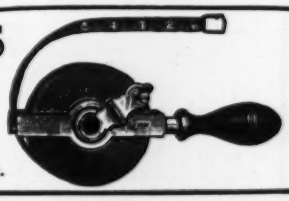

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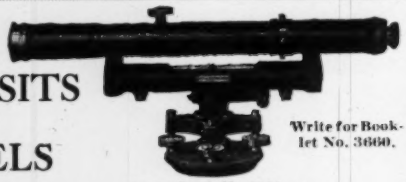

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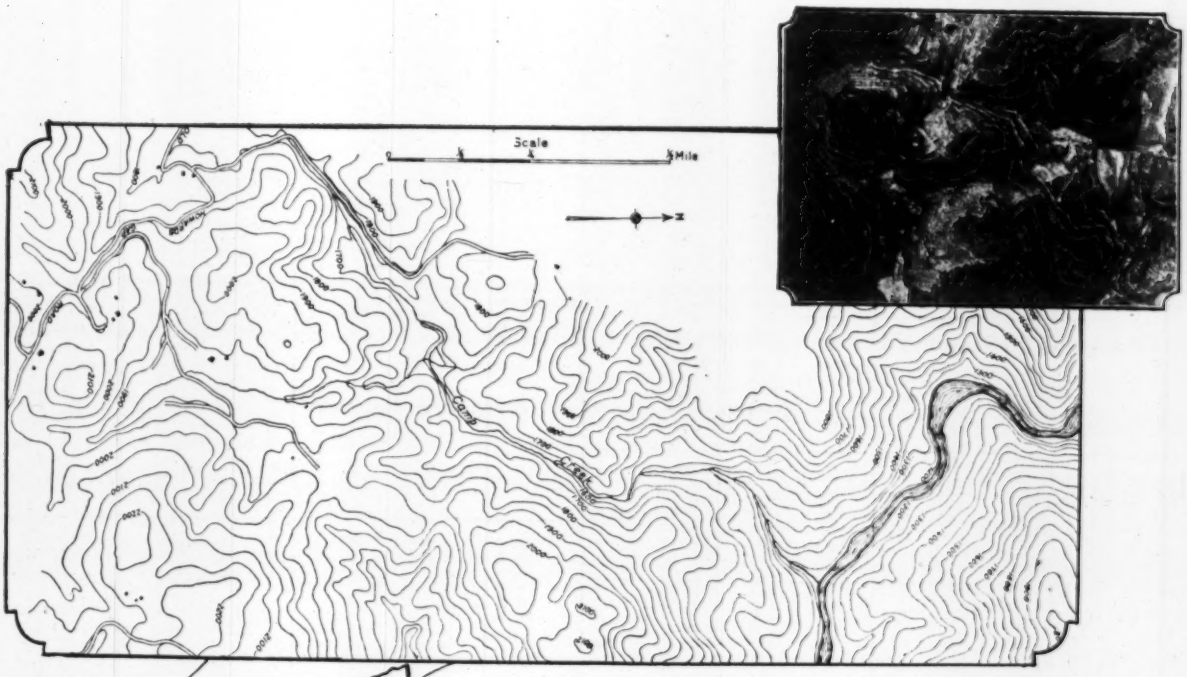

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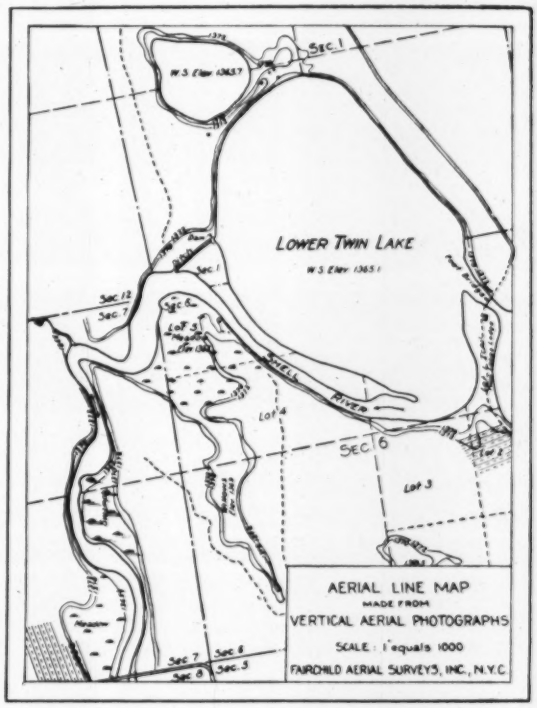

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See Searchlight Section for used Equipment.

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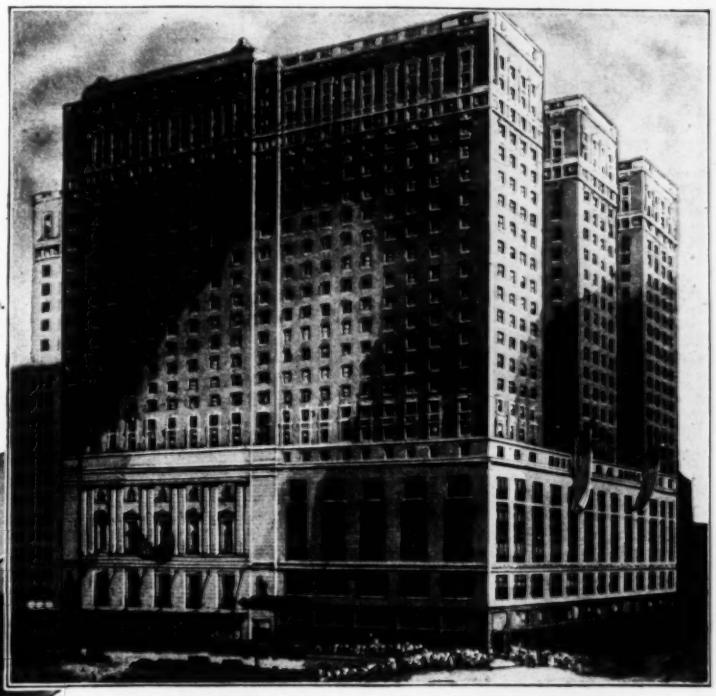

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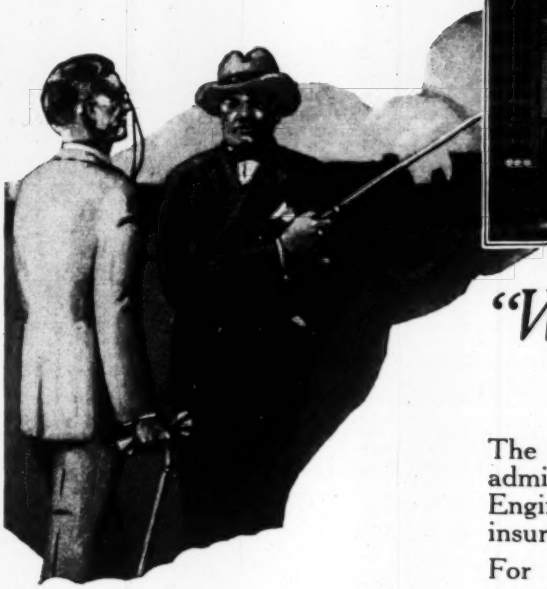

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(See Conc. Floor Hardener)

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Southern Wood Preserv. Co.

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Irving Iron Works
Kerlow Steel Flooring Co.
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Union Iron Works

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Industrial Works
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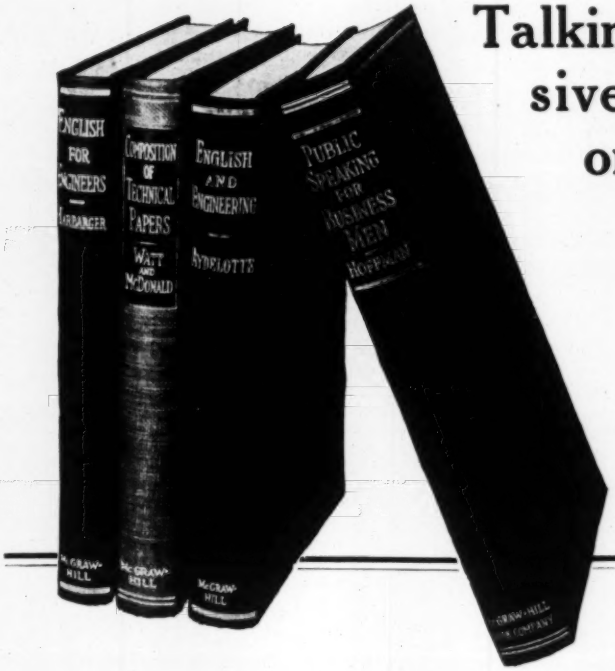

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Babcock & Wilcox Co.
Westinghouse Electric & Mfg. Co.

Subgraders
Lakewood Engr. Co.

Superheaters
Babcock & Wilcox Co.

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Economy Drg. Table & Mfg. Co.
Hamilton Mfg. Co.
Weber Co., F.

Tanks, Air Compressor
Chicago Pneumatic Tool Co.

Tanks, Elevated Steel
Chicago Bridge & Iron Wks.
Graver Corp.
Pittsburgh-Des Moines Steel
Walsh & Weidner Boiler Co.

Tanks, Oil Storage
American Bridge Co.
Blaw-Knox Co.
Chicago Bridge & Iron Wks.
Petroleum Iron Works Co.
Riter-Conley Co.

Tanks, Septic
Dickey Clay Mfg. Co., W. S.

Tanks, Welded and Riveted
Littleford Bros.

Tapes, Steel and Metallic
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Lufkin Rule Co.
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Thermometers
Taylor Instruments Cos.

Tie Bolts
Hawley Tie Bolt Co.

Ties, Creosoted Wood
Amer. Creosoting Co. (Ky.)
Colonial Creosoting Co.
Georgia Creosoting Co.
Jennison-Wright Co.

Ties, Steel
Carnegie Steel Co.

Tile, Concrete Bldg.
Amer. Cement Tile Mfg. Co.
Federal Cement Tile Co.
Truscon Laboratories
U. S. Gypsum Co.

Tile, Roof Cement
Amer. Cement Tile Mfg. Co.
Federal Cement Tile Co.
Truscon Laboratories

Tin Plate
Amer. Sheet & Tin Plate Co.
Bethlehem Steel Co.

Tool, Pneumatic
Chicago Pneumatic Tool Co.

Towers, Concrete
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Towers, Radio
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Towers, Transmission
American Bridge Co.
Blaw-Knox Co.

Track, Industrial & Portable
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Carnegie Steel Co.
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Sweets Steel Co.

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Tractors
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Minn. Steel & Mchy. Co.

Trailers
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Fruehauf Trailer Co.
Watson Truck Corp.

Tramways, Aerials
American Steel & Wire Co.

Tramways, Overhead
Harnischfeger Corp.
Pawling & Hornischfeger

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Westinghouse Electric & Mfg. Co.

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Brandis & Sons
Buff & Buff Mfg. Co.
Gurley, W. & L. E.
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Transmission Mchy. Power
Chain Belt Co.
Link-Belt Co.

Treads, Safety
Concrete Steel Co.
Irving Iron Works
Kerlow Steel Flooring Co.
Truscon Steel Co.

Treads, Traffic (Bridges)
Wood Iron & Steel Co., Alan.

Trolleys, I-Beam
Brown Hoisting Machy. Co.

Trucks, Motor
Eagle Wagon Works
Watson Truck Corp.

Tunnel Liner Plates
Blaw-Knox Co.

Turbines, Hydraulic Impulse and Reaction
Allis-Chalmers Mfg. Co.
Smith Co., S. Morgan

Turbines, Steam
Allis-Chalmers Mfg. Co.
De Laval Steam Turbine Co.

Turntables
American Bridge Co.
Blaw-Knox Co.
Foster Co., L. B.

Underpinning
Spencer White & Prentis Underpinning & Found. Co.

Unloaders, Car & Wagon
Erie Steam Shovel Co.
Haiss Mfg. Co., Geo.
Heltzel Steel Form & Ir. Co.
Link-Belt Co.
Nelson Iron Works, N. P.

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Coffin Valve Co
Golden-Anderson Valve Specialty Co.
Ludlow Valve Mfg. Co.
Michigan Valve & Fdy. Co.
Norwood Engr. Co.
Simplex Valve & Meter Co
Smith Mfg. Co., A. P.

Valves, Altitude
Golden-Anderson Valve Specialty Co.
Ludlow Valve Mfg. Co.

Valves, Angle, Check, Gate and Globe
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Coffin Valve Co.
Golden-Anderson Valve Specialty Co.
Jenkins Bros.
Ludlow Valve Mfg. Co.
Simplex Valve & Meter Co.

Valves, Automatic
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Ludlow Valve Mfg. Co.

Valves, Control Electric
Chapman Valve Mfg. Co.

Valves, Control Hydraulic
Chapman Valve Mfg. Co.

Valves, Float
Golden-Anderson Valve Specialty Co.

Valves, Regulating
Golden-Anderson Valve Specialty Co.
Ludlow Valve Mfg. Co.
Simplex Valve & Meter Co.

Valves, Return
Golden-Anderson Valve Specialty Co.

Valves, Safety
Golden-Anderson Valve Specialty Co.

Valves, Sewage
Chapman Valve Mfg. Co.

Valves, Sluice
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Coffin Valve Co.
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Wagons, Dump, Auto
Austin Western Road Mchry. Co.
Eagle Wagon Works

Wagons, Dump
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Watson Truck Corp.

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Anti-Hydro Waterproof. Co.
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Wailes Dove-Hermiston

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Paradon Engineering Co.
Wallace & Tiernan Co., Inc.

Water Softeners
Amer. Water Softener Co.
Graver Corporation
Roberts Filter Mfg. Co.

Water, Supply
Artesian Well & Supply Co.

Water Wheels, Impulse and Reaction
Smith Co., S. Morgan

Welding and Cutting Apparatus
Blaw-Knox Co.

Wheels, Disc
Budd Wheel Co., The

Wheelbarrows
Sterling Wheelbarrow Co.

Winches, Motor Truck
Bay City Fdy. & Mach. Co.
Mead Morrison Mfg. Co.

Winches, Ship, Hand, Steam and Electric
Brown Hoisting Mchy Co.
Dobbie Frdy. & Mach. Co.
Lidgerwood Mfg. Co.
Mead Morrison Mfg. Co.

Window Sash Putty
Truscon Laboratories

Window Sash Steel
Luptons Sons Co., David
Truscon Steel Co.

Wire Glass
Mississippi Wire Glass Co.

Wire Mesh, Reinforced
Wickwire Spencer Steel Co.

Wire Rope
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American Steel & Wire Co.
Roebling's Sons Co., J. A.

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Wood Casings
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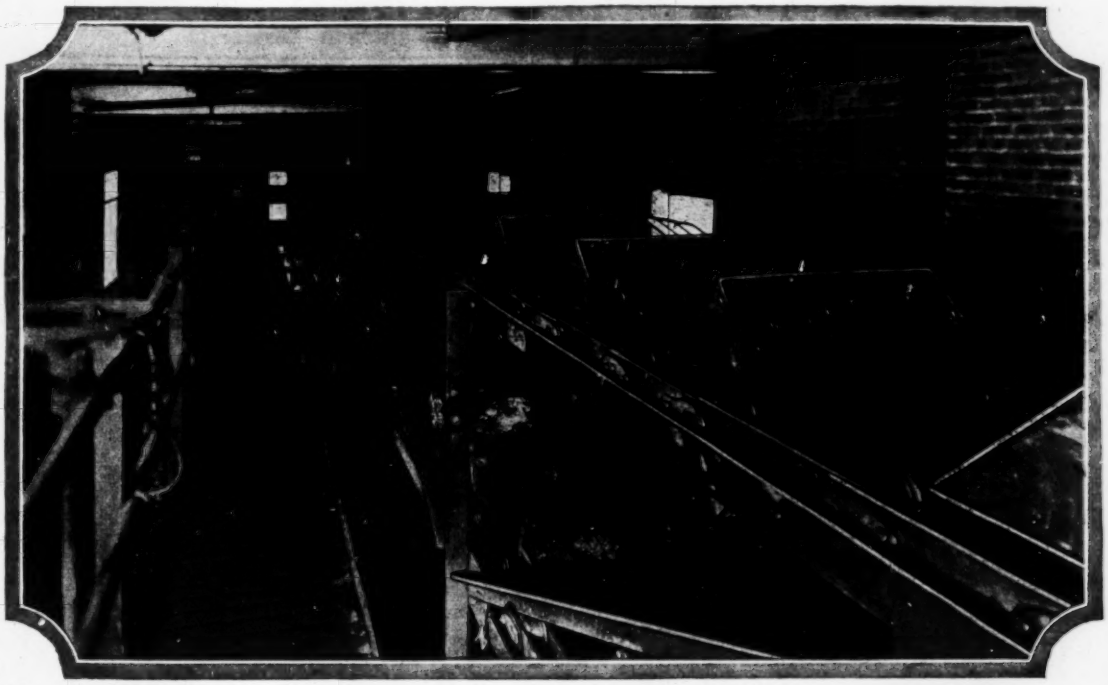
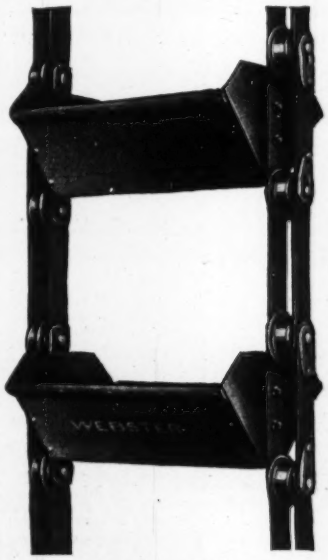
Lowell Wrench Co.



"GRAVITY DISCHARGE ELEVATOR-CONVEYORS"

for Distribution and Storage of Coal



Chain and Buckets of the Webster Gravity Discharge Elevator-Conveyor

WHERE it is not practical to elevate coal to a sufficient height to permit spouting, or where necessity demands storage and distribution at a distance from the vertical lift, Webster Gravity Discharge Elevator-Conveyors are the most advantageous.

Their efficiency in handling coal at yards, docks, locomotive coaling stations, power plants and gas producer houses, has won for them the unqualified approval of users who vouch for their low maintenance cost and constant reliability.

Whether your coal handling requirements are large or small, Webster engineers can offer you a most complete fund of experience. Their services are at your disposal.

THE WEBSTER MFG. COMPANY
4500-4560 Cortland Street
CHICAGO

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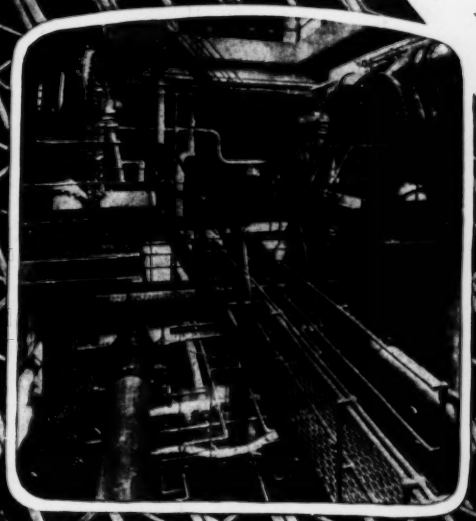
IRVING SUBWAY

TRADE MARK

PATENTED

REG. U.S. PAT. OFF.

THE NON-SLIPPING OPEN STEEL FLOORING



It may be hard to put a dollars-and-cents value on underfoot safety and comfort—but there's no denying the fact that it is a big factor in plant operation and efficiency.

The smooth, comfortable, safe, non-slipping surface of a floor of ***"Subway"*** gets the most and the best from the men who have to stand or walk or work or wheel upon it.

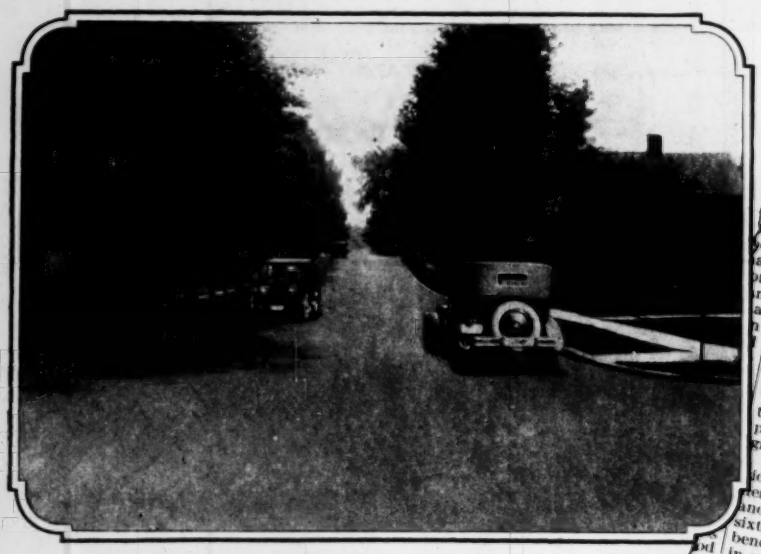
And its sectional construction—light, rigid, convenient, all-steel panels—makes it easy to place anywhere—in wide expanses or in narrow walkways, around machines, etc.

Ask us for Catalog 4A5.

IRVING IRON WORKS CO.

LONG ISLAND CITY, N.Y. U.S.A.

B-77



Built in 1909, this typical Tarvia street is still in perfect condition after 16 years of service.

Tax-Payers Reelect Road Commissioner

Voters Repeat Performance of Last Election—Keep Commissioner Edwards in Office

By an overwhelming vote of confidence yesterday, J. E. Edwards was reelected to the office of Road Commissioner, a post which he has held continuously since 1909. The absence of all opposition testifies to the complete endorsement by the taxpayers of the Road Commissioner's program.

Old residents can recall when Commissioner Edwards, advocating a comprehensive policy of road construction, repair and maintenance, first took office in 1909, sixteen years ago. Prior to his encumbency the streets of the community were in sorry shape. Yet with considerably less than a liberal appropriation, Mr. Edwards was able to accomplish wonders.

Main Street was his first objective. So far gone was the surface of this main thoroughfare, it was decided to completely [illegible] work was done in the summer

The Road Official's record is "out in the open"—

Tarvia Service *Chapter VII*

AS all public officials know, no official record is more completely out "in the open" than that of the road commissioner. If old roads are not well kept up, if new construction is not going forward, taxpayers soon begin to stir things up.

Quite natural that so many road commissioners lean toward a Tarvia program. For Tarvia enables them to point to sound economies effected—to savings in first cost and maintenance and savings on equipment.

In brief, the experience of hundreds of road officials has proved conclusively that, for the money spent, Tarvia gives more miles and the most years of satisfactory highway service.

The Barrett Company

New York, St. Louis, Detroit, Minneapolis, Youngstown, Baltimore, Providence, Chicago, Cleveland, Kansas City, Salt Lake City, Milwaukee, Syracuse, Philadelphia, Cincinnati, Birmingham, Bethlehem, Toledo, New Orleans, Boston, Pittsburgh, Dallas, Lebanon, Columbus, Rochester, Buffalo

In Canada
THE BARRETT COMPANY, Limited
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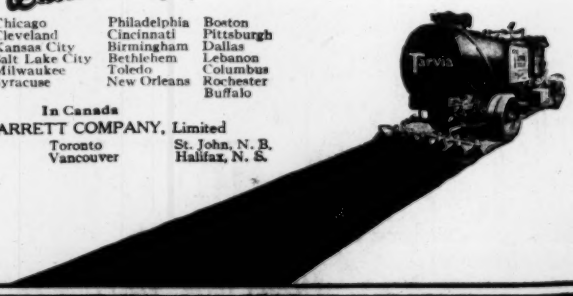
Tarvia
For Road Construction Repair and Maintenance